BONFIGLIOLI
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BONFIGLIOLI

Power & Control Solutions

NEMA

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Revisions

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Visit www.bonfiglioli.com to search for catalogues with latest revision index.

1.0 GENERAL INFORMATION

1.1 SYMBOLS AND UNITS

Symb.	U.m.	Description
A_c	[lbs]	Calculated thrust load
A_n	[lbs]	Rated thrust load
f_m	–	Adjusting duty factor
f_t	–	Thermal correction factor
i	–	Gear ratio
I	–	Intermittence
J_c	[lb·ft^2]	Load moment of inertia
J_m	[lb·ft^2]	Mass moment of inertia for motor
J_r	[lb·ft^2]	Mass moment of inertia for gearbox
K	–	Acceleration factor of masses
K_r	–	Transmission element factor
T_b	[lb·in]	Brake torque
T	[lb·in]	Torque
T_c	[lb·in]	Calculated torque
T_n	[lb·in]	Speed reducer rated torque
T_r	[lb·in]	Torque required
n	[rpm]	Speed
P	[hp]	Power
P_c	[hp]	Calculated power
P_n	[hp]	Motor rated power
P_n	[hp]	Rated horsepower

Symb.	U.m.	Description
P_t	[hp]	Thermal capacity
P_r	[hp]	Power required
R_c	[lbs]	Calculated radial load
R_n	[lbs]	Rated OHL
R_x	[lbs]	Radial OHL for load shifted from shaft midpoint
S	–	Safety factor
S.F.	–	Service factor
t_a	[°C/ °F]	Ambient temperature
t_f	[min]	Operating time under constant load
t_r	[min]	Rest time
W	[ft·lb]	Brake dissipated energy between two successive air-gap adjustments
W_{max}	[ft·lb]	Maximum energy for each braking operation
x	[in]	Load application distance from shaft shoulder
Z	[1/h]	Number of permitted starts in loaded conditions
Z_r	[1/h]	Number of starts
η_d		Dynamic efficiency

Footnotes:

$\square_1$ *Applies to input shaft*

$\square_2$ *Applies to output shaft*

NOMENCLATURE

1.2 TORQUE

Nominal output torque T_{n2}

Torque transmitted at output shaft under uniform load, referred to input speed n_1 and corresponding output speed n_2.
It is calculated according to service factor S.F. = 1.

Application torque T_{r2}

This is torque corresponding to application requirements. It must be equal to or less than rated output torque T_{n2} for the gearmotor selected.

Calculated torque T_{c2}

Torque value to be used for selecting the gearbox, considering required torque T_{r2} and service factor S.F., and is obtained by:

$T_{c2} = T_{r2} \times S.F. \leq T_{n2}$

1.3 POWER

Rated input horsepower P_{n1}

In the speed reducer selection charts, this is power applicable at input shaft referred to speed n_1 and considering a service factor S.F. = 1.

Output horsepower P_{n2}

Value represents rated HP as referred to speed reducer output shaft.

$P_{n2} = P_{n1} \times \eta_d$

$$P_{n2} = \frac{T_{n2} \times n_2}{63025}$$

P_{n2} in [hp]; M_{n2} in [ib·in]

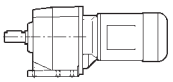
1.4 THERMAL CAPACITY P_t

The value indicates the speed reducer thermal limit and corresponds to the power transmission capacity under continuous duty at an ambient temperature of 20°C [70°F] without using a supplementary cooling system.
For short operating periods with sufficiently long pauses to allow the unit to cool, thermal power is not a factor important and it does not need to be taken into consideration.
For ambient temperature different from 20°C [70°F] and intermittent duty, P_t value can be adjusted according to thermal factor f_t listed in table (A1), provided the following condition is satisfied.

$P_{r1} \leq P_t \times f_t$

Gear units C 05 through C 31 are not thermally limited and the thermal verification does not apply.

(A0)

	**Pt** [hp] [20 °C / 70 °F]	
	n_1 = 1750 rpm	n_1 = 3500 rpm
C 05 2	—	—
C 11 2	—	—
C 21 2	—	—
C 31 2	—	6.0
C 35 2	8.7	6.7
C 41 2	10.7	8.0
C 51 2	14.7	10.5
C 61 2	18.8	13.4
C 70 2	28	21
C 80 2	43	32
C 90 2	58	43
C 100 2	79	56

(A1)

f_t					
ta max. °C [°F]	Continuous duty	Intermittent duty			
		Intermittence % (I)			
		80	60	40	20
40 [105]	0.8	1.1	1.3	1.5	1.6
30 [85]	0.85	1.3	1.5	1.6	1.8
20 [70]	1.0	1.5	1.6	1.8	2.0
50 [10]	1.15	1.6	1.8	2.0	2.3

Intermittence (I)% is obtained dividing operating time under load [t_f] by total time, expressed as a percentage:

$$I = \frac{t_f}{t_f + t_r} \times 100$$

1.5 EFFICIENCY η

Obtained from the relationship of output power P_2 to input power P_1, according to the following equation:

$$\eta = \frac{P_2}{P_1}$$

Torque value M_{n2} specified in this catalogue takes the dynamic efficiency η_d into account.

1.6 MASS MOMENT OF INERTIA J_r

Values for the moment of inertia specified in the catalogue refer to gear unit input shaft.
They are therefore related to motor speed, in the case of direct motor mounting.

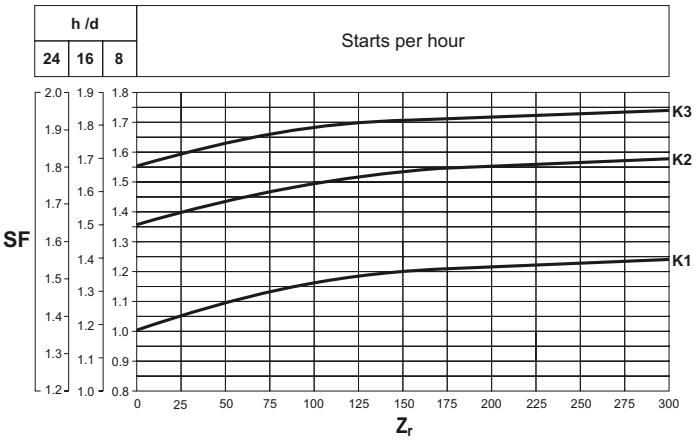
1.7 SERVICE FACTOR S.F.

The service factor is the numerical parameter that describes the severity of the application. Its value results from the combination of the actual duty the gearbox is operated at, the number of starts per hour and the daily operating hours.
The graph (A2) here after comes handy when calculating the actual value for the service factor:

1. Enter the chart with the starts per hour [Z_r]
2. Intersect the **K_** curve that applies for the application
3. Read the service factor **S.F**. from the column marked with the applicable hours per day [**h/d**]

Intermediate values can be obtained by interpolation.

(A2)



Acceleration factor of masses K

Used for establishing the service factor and obtained from the following equation:

$$K = \frac{J_c}{J_m}$$

Where:

Jc [lb·ft^2]
moment of inertia of the driven masses in proportion to the speed of the applied motor

Jm [lb·ft^2]
motor moment of inertia

K1 uniform load
$K \leq 0.25$

K2 moderate shock load
$K \leq 3$

K3 heavy shock load
$K \leq 10$

For values of K > 10, please contact our Technical Service.

1.8 SELECTION

AGMA Service Factor charting 24hr service (continuous duty)

(A3)

Application	S.F.
AGITATORS	
Pure Liquids	1.25
Liquids & Solids	1.50
Liquids - variable density	1.50
BLOWERS	
Centrifugal	1.25
Lobe	1.50
Vane	1.50
BREWING AND DISTILLING	
Bottling Machinery	1.25
Brew Kettles - Continuous Duty	1.25
Cookers - Continuous Duty	1.25
Mash Tubs - Continuous Duty	1.25
Scale Hopper - Frequent Starts	1.50
CAN FILLING MACHINES	1.25
CAR DUMPERS	2.00
CAR PULLERS	1.50
CLARIFIERS	1.25
CLASSIFIERS	1.50
CLAY WORKING MACHINERY	
Brick Press	2.00
Briquette Machine	2.00
Pug Mill	1.50
COMPACTORS	2.00
COMPRESSORS	
Centrifugal	1.25
Lobe	1.50
Reciprocating, Multi-Cylinder	1.75
Reciprocating, Single-Cylinder	2.00
CONVEYORS - GENERAL PURPOSE	
includes Apron, Assembly, Belt, Bucket, Chain, Flight, Oven and Screw	
Uniformly Loaded or Fed	1.25
Heavy Duty - Not Uniformly Fed	1.50
Severe Duty - Reciprocating or Shaker	2.00
CRANES	
Dry Dock	
Main Hoist	2.50
Auxiliary Hoist	3.00
Boom Hoist	3.00
Slewing Hoist	3.00
Traction Drive	3.00
Container	
Main Hoist	3.00
Boom Hoist	2.00
Trolley Drive	
Gantry Drive	3.00
Traction Drive	2.00
Mill Duty	
Main Hoist	3.50
Auxiliary	3.50
Bridge Travel	3.00
Trolley Travel	3.00
Industrial Duty	
Main	3.00
Auxiliary	3.00
Bridge Travel	3.00
Trolley Travel	3.00
CRUSHERS	
Stone or Ore	2.00
DREDGES	
Cable Reels	1.50
Conveyors	1.50
Cutter Head Drives	2.00
Pumps	2.00
Screen Drives	2.00
Stackers	1.50
Winches	1.50
ELEVATORS	
Bucket	1.50
Centrifugal Discharge	1.25
Escalators	1.25
Freight	1.50
Gravity Discharge	1.25
EXTRUDERS	
General	1.50
Plastics	
Variable Speed Drive	1.50
Fixed Speed Drive	1.75
Rubber	
Continuous Screw Operation	1.75
Intermittent Screw Operation	1.75
FANS	
Centrifugal	1.25
Cooling Towers	2.00
Forced Draft	1.25
Induced Draft	1.50
Industrial & Mine	1.50
FEEDERS	
Apron	1.50
Belt	1.50
Disc	1.25
Reciprocating	2.00
Screw	1.50

Application	S.F.
FOOD INDUSTRY	
Cereal Cooker	1.25
Dough Mixer	1.50
Meat Grinder	1.50
Slicers	1.50
GENERATORS AND EXITORS	1.25
HAMMER MILLS	2.00
HOISTS	
Heavy Duty	2.00
Medium Duty	1.50
Skip Hoist	1.50
LUMBER INDUSTRY	
Barkers	
Spindle Feed	1.50
Main Drive	1.75
Conveyors	
Burner	1.50
Main or Heavy Duty	1.50
Main Log	2.00
Re-saw, Merry-Go-Round	1.50
Slab	2.00
Transfer	1.50
Chains	
Floor	1.50
Green	1.75
Cut-Off Saws	
Chain	1.75
Drag	1.75
Debarking Drums	2.00
Feeds	
Edger	1.50
Gang	1.75
Trimmer	1.50
Log Deck	1.75
Log Hauls - Incline - Well Type	1.75
Log Turning Devices	1.75
Planer Feed	1.50
Planer Tilting Hoists	1.50
Rolls - Live-off brg. - Roll Cases	1.75
Sorting Table	1.50
Tipple Hoist	1.50
Transfer	
Chain	1.75
Craneway	1.75
Tray Drives	1.50
Veneer Lathe Drives	1.50
METAL MILLS	
Draw Bench Carriage and Main Drive	1.50
Runout Table	
Non-reversing	1.50
Group Drives	1.50
Individual Drives	2.00
Reversing	2.00
Slab Pushers	1.50
Shears	2.00
Wire Drawing	1.50
Wire Winding Machine	1.50
METAL STRIP PROCESSING MACHINERY	
Bridles	1.50
Coilers & Uncoilers	1.25
Edge Trimmers	1.50
Flatteners	1.50
Loopers (Accumulators)	1.25
Pinch Rolls	1.50
Scrap Choppers	1.50
Shears	2.00
Slitters	1.50
MILLS, ROTARY TYPE	
Ball & Rod	
Spur Ring Gear	2.00
Helical Ring Gear	1.50
Direct Connected	2.00
Cement Kilns	1.50
Dryers & Coolers	1.50
MIXERS, CEMENT	1.50
PAPER MILLS	
Agitator (Mixer)	1.50
Agitator for Pure Liquors	1.25
Barking Drums	2.00
Barkers - Mechanical	2.00
Beater	1.50
Breaker Stack	1.25
Calendar	1.25
Chipper	2.00
Chip Feeder	1.50
Coating Rolls	1.25
Conveyors	
Chip, Bark, Chemical	1.25
Log (including Slab)	2.00
Couch Rolls	1.25
Cutter	2.00
Cylinder Molds	1.25
Dryers	
Paper Machine	1.25
Conveyor Type	1.25
Embosser	1.25
Extruder	1.50
Fourdrinier Rolls (includes Lump breaker, dandy roll, wire turning, and return rolls)	1.25
Jordan	1.50
Kiln Drive	1.50
Mt. Hope Roll	1.25
Paper Rolls	1.25
Platter	1.50

Application	S.F.
Presses - Felt & Suction	1.25
Pulper	2.00
Pumps - Vacuum	1.50
Reel (Surface Type)	1.25
Screens	
Chip	1.50
Rotary	1.50
Vibrating	2.00
Size Press	1.25
Super Calender	1.25
Thickener (AC Motor)	1.50
Thickener (DC Motor)	1.25
Washer (AC Motor)	1.50
Washer (DC Motor)	1.25
Wind and Unwind Stand	1.25
Winders (Surface Type)	1.25
Yankee Dryers	1.25
PLASTICS INDUSTRY - PRIMARY PROCESSING	
Intensive Internal Mixers	
Batch Mixers	1.75
Continuous Mixers	1.50
Batch Drop Mill - 2 smooth rolls	1.25
Continuous Feed, Holding & Blend Mill	1.25
Calender	1.50
PLASTICS INDUSTRY - SECONDARY PROCESSING	
Blow Molder	1.50
Coating	1.25
Film	1.25
Pipe	1.25
Pre-Plasticizer	1.50
Rods	1.25
Sheet	1.25
Tubing	1.50
PULLER - BARGE HAUL	1.50
PUMPS	
Centrifugal	1.25
Proportioning	1.50
Reciprocating	
Single Acting, 3 or more cylinders	1.50
Double Acting, 2 or more cylinders	1.50
Rotary	
Gear Type	1.25
Lobe	1.25
Vane	1.25
RUBBER INDUSTRY	
Intensive Internal Mixers	
Batch Mixers	1.75
Continuous Mixers	1.50
Mixing Mill	
2 smooth rolls	1.50
1 or 2 corrugated rolls	
Batch Drop Mill - 2 smooth rolls	1.50

Application	S.F.
Cracker - 2 corrugated rolls	2.00
Holding, Feed & Blend Mill - 2 rolls	1.25
Refiner - 2 rolls	1.50
Calender	1.50
SAND MULLER SEWAGE DISPOSAL EQUIPMENT	1.50
Bar Screens	1.25
Chemical Feeders	1.25
Dewatering Screens	1.50
Scum Breakers	1.50
Slow or Rapid Mixers	1.50
Sludge Collectors	1.25
Thickener	1.50
Vacuum Filters	1.50
SCREENS	
Air Washing	1.25
Rotary - Stone or Gravel	1.50
Traveling Water Intake	1.25
SUGAR INDUSTRY	
Beet Slicer	2.00
Cane Knives	1.50
Crushers	1.50
Mills (low speed end)	1.75
TEXTILE INDUSTRY	
Batchers,	1.50
Calenders	1.50
Cards	1.50
Dry Cans	1.50
Dyeing Machinery	1.50
Looms	1.50
Mangles	1.50
Nappers	1.50
Pads	1.50
Slashers	1.50
Soapers	1.50
Spinners	1.50
Tenter Frames	1.50
Washers	1.50
Winders	1.50

Recommended procedure for correct selection of drive unit:

Selecting a gearmotor

A) Determine service factor S.F. according to type of duty (factor K), number of starts per hour Z_r and hours of operation.

B) Once torque Tr_2, speed n_2 and dynamic efficiency η_d are known, input power can be calculated as follows:

$$P_{r1}(hp) = \frac{T_{r2}(lb \cdot in) \times n_2(rpm)}{63{,}025 \times \eta_d}$$

Values for η_d for the different sizes of speed reducer are indicated in table (A4) below:

(A4)

	Reductions		
	2	**3**	**4**
η_d	0.95	0.93	0.91

C) Consult the gearmotor selection charts and locate the table corresponding to power

$P_n \geq P_{r1}$

Unless otherwise specified, power Pn of motors indicated in the catalogue refers to continuous duty S1.
For motors used in conditions other than S1, the type of duty required by reference to CEI 2-3/IEC 60034-1 Standards must be mentioned.
For duties from S2 to S8 in particular, and for IEC motor frame 132 or smaller, extra power can be obtained with respect to continuous duty, consequently the following condition must be satisfied:

$$P_v \geq \frac{P_{r1}}{f_m}$$

The adjusting duty factor f_m can be obtained from chart (A5).

(A5)

	Duty						
	S2			**S3***			**S4 - S8**
	Cycle duration [min]			Intermittence (I)			Please consult factory
	10	**30**	**60**	**25%**	**40%**	**60%**	
fm	1.35	1.15	1.05	1.25	1.15	1.1	

* Cycle duration, in any event, must be 10 minutes or less. If it is longer, please contact our Technical Service Department.

Intermittence:

$$I = \frac{t_f}{t_f + t_r} \times 100$$

tf = operating time at constant load
tr = rest time

Next, according to output speed n_2, select a gearmotor featuring a safety factor S greater than or equal to service factor S.F.

$S \geq S.F.$

The gearmotor selection charts features combination with 2, 4 and 6 pole motors.
If motors with different speed shall be used, refer to the selection procedure for speed reducers and choose the most suitable gear unit.
For applications such as hoisting and travelling, contact our Technical Service Department.

Selecting a speed reducer with a motor adapter

A) Determine service factor S.F. based on application. See pages 5 - 7.

B) Assuming the required output torque for the application Tr_2 is known, the calculated torque can be defined as:

$T_{c2} = T_{r2} \times S.F.$

C) The gear ratio is calculated according to requested output speed n_2 and the drive input speed n_1

$$i = \frac{n_1}{n_2}$$

Once the torque $\mathbf{T_{c2}}$ and gear ratio [i] are calculated consult the speed reducer rating chart for the actual drive speed $\mathbf{n_1}$ and select the unit that features a torque rating $\mathbf{T_{n2}}$ that equals or exceeds the computational torque $\mathbf{T_{c2}}$:

$T_{n2} \geq T_{c2}$

If an electric motor, with either a NEMA or a IEC flange, is going to be fitted onto the captioned gear unit, check that matching is feasible at chapter “Motor availability”.

1.9 VERIFICATIONS

After the selection of the speed reducer, or gearmotor, is complete:

For gear units type C 11 2, C 21 2 and C 31 2, with ratio i > 40:1, operated with Z > 30 switches per hour, adjust the service factor calculated through diagram (A2) and multiply the value by 1.2

Then check that for the revised service factor the condition S $\geq$ S.F. still applies.

A) Thermal capacity

Make sure that the thermal capacity of the speed reducer is equal to or higher than power required by the application. If this condition is not verified, select a larger speed reducer or apply a supplementary cooling system.

B) Maximum torque

The maximum torque (intended as momentary peak load) applicable to the speed reducer must not, in general, exceed 200% of rated torque T_{n2}. Therefore, check that this limit is not exceeded, using suitable torque limiting devices, if necessary.
For three-phase two speed motors, it is important to pay attention to switching torque generated (from high to low speed), because it could be significantly higher than maximum torque.

C) Radial loads

Check that forces applying on input and/or output shafts are within permitted catalogue values. If they are higher, select a larger speed reducer or change bearing arrangement.

Remember that all values listed in the catalogue refer to loads acting at mid-point of the shaft. The permissible radial load value should be adjusted if the radial load is not acting at mid point of shaft.
See para 2.8.

D) Thrust loads

Thrust loads, if applicable, must also be compared to the permitted values indicated in the catalogue.
In the event of extremely high thrust loads, or a combination of thrust and radial loads, contact our Technical Service for advise.

E) Electric motors

For duties with considerable number of starts per hour, factor Z must be considered (it can be sorted from the motor rating chart). Factor Z defines the maximum number of starts for the application under consideration.

1.10 INSTALLATION

The following installation instructions must be followed:

A) Make sure that the speed reducer is adequately secured to avoid vibrations. If shocks, prolonged overloading, or the possibility of locking are expected, install hydraulic couplings, clutches, torque limiters, etc.).

B) Prior to painting, the outer face of the oil seals must be protected to prevent the solvent drying out the rubber, thus jeopardizing the oil-seal function.

C) Parts assembled on the speed reducer output shaft must be machined to ISO H7 tolerance to prevent interference fits that could damage the speed reducer itself. Further, to mount or remove such parts, use suitable pullers or extraction devices using the tapped hole located at end of shaft extension.

D) Contact surfaces must be cleaned and treated with suitable protective products before mounting to avoid oxidation and, as a result, seizure of parts.

E) Coupling to the speed reducer output hollow shaft (tolerance G7) is usually effected with shafts machined to h6 tolerance. If the type of application requires it, coupling with a slight interference (G7-j6) is possible.

F) Before starting up the machine, make sure that oil level is correct for the actual mounting position, and that viscosity is suitable for the specific duty. See table (B1).

1.11 STORAGE

Observe the following instructions to ensure correct storage of products:

A) Do not store outdoors, in areas exposed to weather or with excessive humidity.

B) Always place boards, wood, or other material between the products and the floor. The gearbox should not have direct contact with the floor.

C) For long term storage (over 60 days), all machined surfaces such as flanges, shafts and couplings must be protected with a suitable rust inhibiting product (Mobilarma 248 or equivalent).

D) The following measures must be taken when products are stored for a period exceeding 6 months:

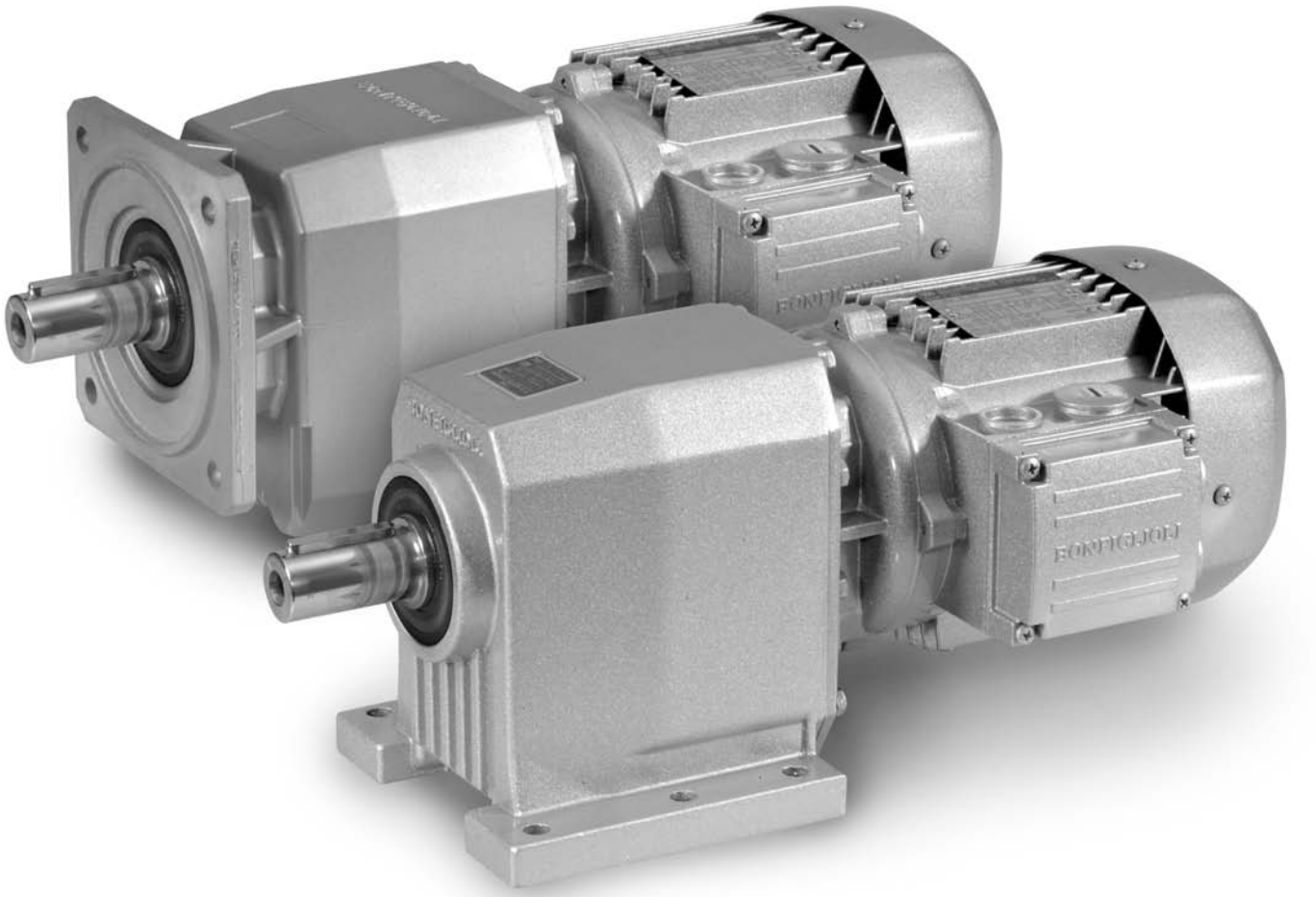
For life lubricated products, the machined areas must be greased to prevent oxidation.

In addition to above, products originally supplied w/o oil must be positioned with the breather plug at the highest point, and filled with oil.
Before operating the speed reducer, restore the correct quantity of oil.

1.12 MAINTENANCE

Life lubricated speed reducers do not require periodical oil change.
For larger speed reducers, the first oil change must take place after about 300 hours of operation, flushing the interior of the unit using suitable detergents.
Do not mix mineral oils with synthetic oils.
Check oil periodically and restore the level, if necessary.

2.0 HELICAL IN-LINE GEARMOTORS



C SERIES

2.1 ORDERING NUMBERS

Gearbox

C 21 2 NP 24.3 S2 B3 .....

OPTIONS

MOUNTING POSITION

B3 (default), B6, B7, B8, V5, V6
B5 (default), B51, B53, B52, V1, V3

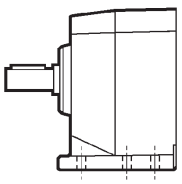
INPUT OPTIONS

NHS for speed reducer with solid input shaft (inch dims.)
P + IEC frame size for gear head with IEC motor adapter
S + **motor size** for integral gearmotor

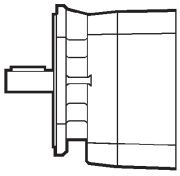
Specify for NEMA inputs:			
	56C		56C
	140TC		143TC and 145TC
	180TC		182TC and 184TC
N +	210TC	for motors:	213TC and 215TC
	250TC		254TC and 256TC
	280TC		284TC and 286TC
	320TC		324TC and 326TC

GEAR RATIO

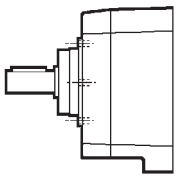
VERSION



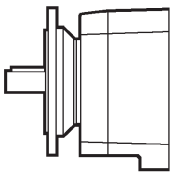
NP: foot mounted



NF: flange mounted



NU: universal housing (C 11...C 61)



NUF_: bolt-on output flange (**A, B, C**)

REDUCTIONS

2, **3**, **4**

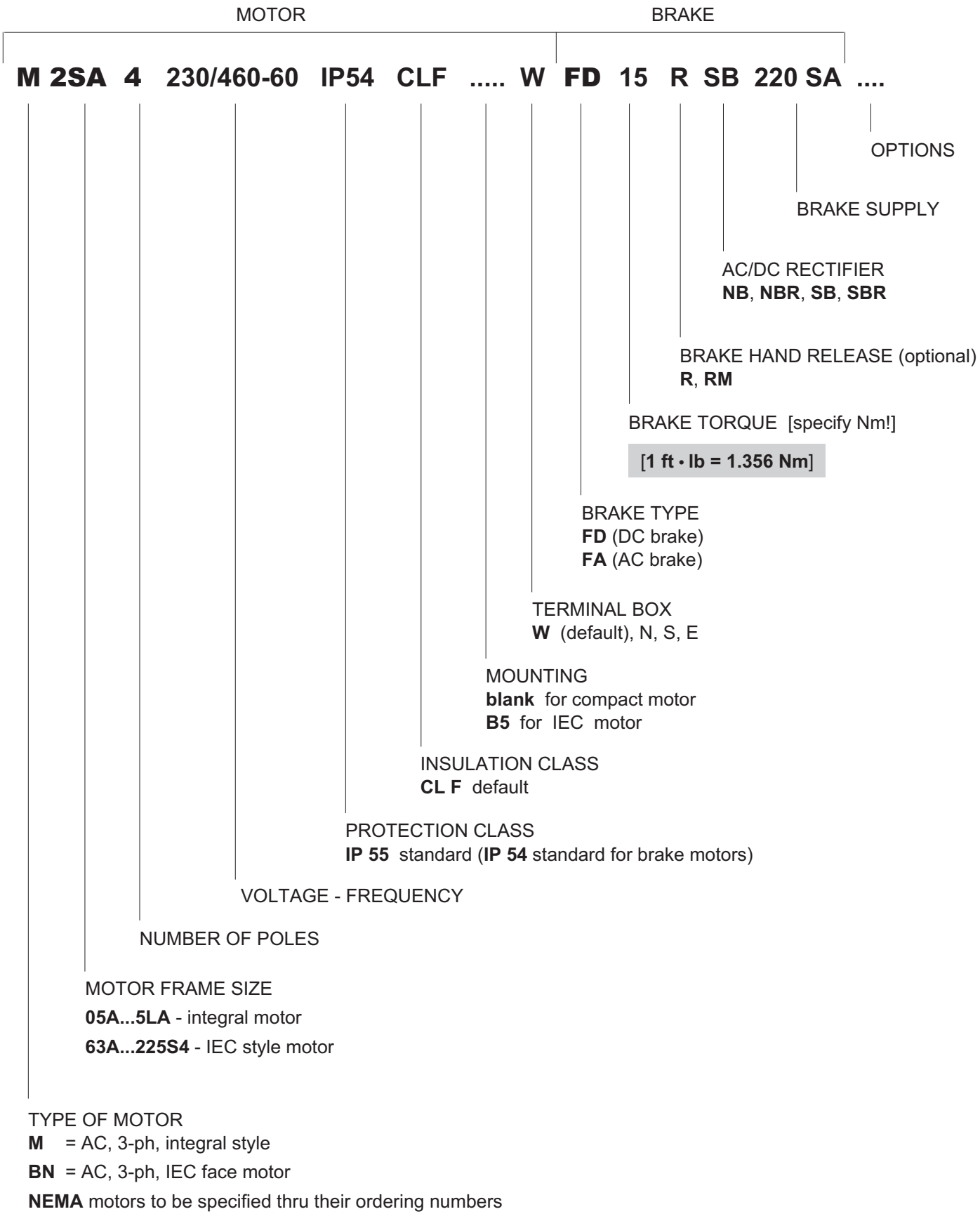
FRAME SIZE

05, **11**, **21**, **31, 35, 41 ,51 ,61, 70, 80, 90, 100**

SERIES

C = helical in-line

Bonfiglioli motor



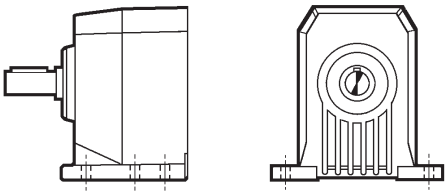
2.2 DESIGN ADVANTAGES

Main product features are:

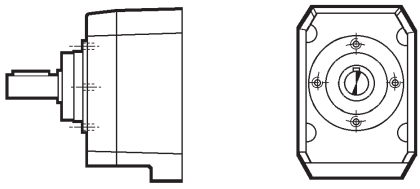
- compact design
- universal mounting
- high efficiency
- low noise
- gears from hardened and case-hardened steel
- aluminum gearcase for models C05 through C31
- input and output shafts in inch dimensions
- adapters for AC electric motors to NEMA standard

2.3 VERSIONS

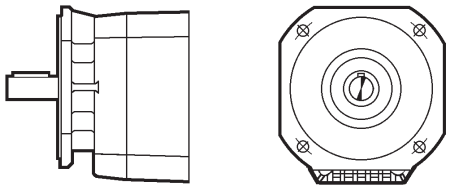
Versions available for C series speed reducer and gearmotors are shown below.



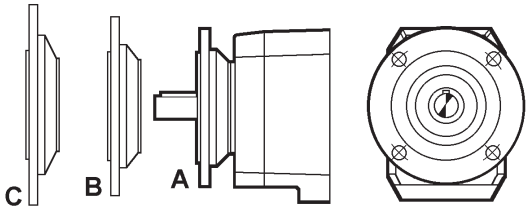
NP foot mounted



NU universal housing (C 11...C 61)



NF flange mounted



NUF_ bolt-on output flange

2.4 SPEED REDUCER OPTIONS

SO

Speed reducers C 05, C 11, C 21, C 31, C 35 and C 41 to be supplied unlubricated.

LO

Gearboxes C 51, C 61, C 70, C 80, C 90, C 100 usually supplied without oil, to be factory filled with synthetic oil currently used by BONFIGLIOLI RIDUTTORI and according to the mounting position specified.

DL

Two oil seals on output shaft.

DV

Two oil seals on input shaft.
(Available only for compact gearmotors).

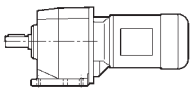
VV

Viton® oil seal on input shaft.

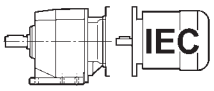
PV

All oil seals in Viton®.

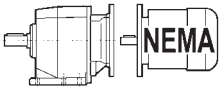
2.5 SYMBOLS



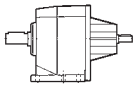
Gearmotor with compact motor.



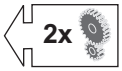
Speed reducer with IEC motor adapter.



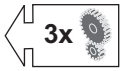
Speed reducer with NEMA input flange.



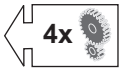
Speed reducer with solid input shaft.



2 Reduction



3 Reduction



4 Reduction

The symbol shows the page the information can be sorted from.

2.6 LUBRICATION

Speed reducer size C 05...C 41 are supplied with life lubrication and do not have oil filling, level, and drain plugs.
Operation of gear units is permitted at ambient temperatures between -20°C and +40°C [-4°F and 104°F].
However, for temperatures between -20°C and -10°C [-4°F and 14°F] unit may only start up after it has been progressively and evenly pre-heated, or otherwise initially operated unloaded.
Load may then be connected to the output shaft when the gear unit has reached the temperature of -10°C, or higher.
Speed reducers for which the SO options is specified come without oil and must be filled by the user prior to be put into operation.
In this case refer to charts (B1) and (B2) for the most appropriate type of oil and relevant change interval.
Customers must always advise mounting position to ensure the correct arrangement of the filling, level and drain plugs.

(B1)

Duty	**t_a 0 - 20 °C [32 - 70 °F]**		**t_a 20 - 40 °C [70 - 104 °F]**	
	Mineral oil **ISO VG**	Synthetic oil **ISO VG**	Mineral oil **ISO VG**	Synthetic oil **ISO VG**
Light duty	150	150	220	220
Medium duty	150	150	320	220
Heavy duty	220	220	460	320

(B2)

Oil temperature °C [°F]	**Oil change interval [hours]**	
	Mineral oil	Synthetic oil
< 65 [< 150 °F]	8000	25000
65 - 80 [150 °F - 175 °F]	4000	15000
80 - 95 [175 °F - 200 °F]	2000	12500

Periodical oil changes are not required for sizes C 05...C 41 as they are lubricated for life with synthetic oil.

Terminal box location

Location of motor terminal boxes can be specified by viewing the motor from the fan side; standard position is highlighted in bold (**W**).

Angular position of the brake release lever

Unless otherwise specified, brake motors have the manual device side located, 90° apart from terminal box.
Different angles can be specified through the relevant options available.

Oil quantity

(B3)

	SHELL Tivela Oil S 320 (for life)																	
	P - NP						F - NF						NU - NUF					
	B3	B6	B7	B8	V5	V6	B5	B51	B53	B52	V1	V3	B5	B51	B53	B52	V1	V3
C 05 2	0.09 *0.35*	0.09 *0.35*	0.09 *0.35*	0.09 *0.35*	0.09 *0.35*	0.09 *0.35*	0.09 *0.35*	0.09 *0.35*	0.09 *0.35*	0.09 *0.35*	0.09 *0.35*	0.09 *0.35*	—	—	—	—	—	—
C 11 2	0.13 *0.50*	0.12 *0.45*	0.10 *0.40*	0.16 *0.60*	0.13 *0.50*	0.18 *0.70*	0.12 *0.45*	0.10 *0.40*	0.09 *0.35*	0.14 *0.55*	0.12 *0.45*	0.16 *0.6*	0.12 *0.45*	0.10 *0.40*	0.09 *0.35*	0.14 *0.55*	0.10 *0.40*	0.16 *0.60*
C 21 2	0.18 *0.70*	0.17 *0.65*	0.18 *0.70*	0.21 *0.80*	0.22 *0.85*	0.31 *1.2*	0.17 *0.65*	0.17 *0.65*	0.17 *0.65*	0.20 *0.75*	0.21 *0.80*	0.29 *1.1*	0.17 *0.65*	0.16 *0.60*	0.17 *0.65*	0.20 *0.75*	0.20 *0.75*	0.25 *0.95*
C 21 3	0.26 *1.0*	0.26 *1.0*	0.31 *1.2*	0.31 *1.2*	0.34 *1.3*	0.39 *1.5*	0.26 *1.0*	0.26 *1.0*	0.31 *1.2*	0.31 *1.2*	0.31 *1.2*	0.36 *1.4*	0.25 *0.95*	0.25 *0.95*	0.29 *1.1*	0.29 *1.1*	0.29 *1.1*	0.34 *1.3*
C 31 2	0.26 *1.0*	0.26 *1.0*	0.26 *1.0*	0.31 *1.2*	0.39 *1.5*	0.39 *1.5*	0.26 *1.0*	0.26 *1.0*	0.26 *1.0*	0.31 *1.2*	0.36 *1.4*	0.36 *1.4*	0.25 *0.95*	0.25 *0.95*	0.25 *0.95*	0.31 *1.2*	0.34 *1.3*	0.34 *1.3*
C 31 3	0.26 *1.0*	0.26 *1.0*	0.31 *1.2*	0.31 *1.2*	0.34 *1.3*	0.39 *1.5*	0.26 *1.0*	0.26 *1.0*	0.31 *1.2*	0.31 *1.2*	0.31 *1.2*	0.36 *1.4*	0.25 *0.95*	0.25 *0.95*	0.29 *1.1*	0.29 *1.1*	0.29 *1.1*	0.34 *1.3*
C 35 2	0.42 *1.6*	0.39 *1.5*	0.39 *1.5*	0.34 *1.3*	0.55 *2.1*	0.62 *2.4*	—	—	—	—	—	—	0.42 *1.6*	0.39 *1.5*	0.39 *1.5*	0.34 *1.3*	0.55 *2.1*	0.62 *2.4*
C 35 3	0.39 *1.5*	0.36 *1.4*	0.39 *1.5*	0.34 *1.3*	0.52 *2.0*	0.60 *2.3*	—	—	—	—	—	—	0.39 *1.5*	0.36 *1.4*	0.39 *1.5*	0.34 *1.3*	0.52 *2.0*	0.60 *2.3*
C 35 4	0.60 *2.3*	0.55 *2.1*	0.60 *2.3*	0.55 *2.1*	0.70 *2.7*	0.81 *3.1*	—	—	—	—	—	—	0.60 *2.3*	0.55 *2.1*	0.60 *2.3*	0.55 *2.1*	0.70 *2.7*	0.81 *3.1*
C 41 2	0.57 *2.2*	0.52 *2.0*	0.55 *2.1*	0.49 *1.9*	0.70 *2.7*	0.88 *3.4*	—	—	—	—	—	—	0.57 *2.2*	0.52 *2.0*	0.55 *2.1*	0.49 *1.9*	0.70 *2.7*	0.88 *3.4*
C 41 3	0.55 *2.1*	0.49 *1.9*	0.55 *2.1*	0.49 *1.9*	0.68 *2.6*	0.83 *3.2*	—	—	—	—	—	—	0.55 *2.1*	0.49 *1.9*	0.55 *2.1*	0.49 *1.9*	0.68 *2.6*	0.83 *3.2*
C 41 4	0.73 *2.8*	0.68 *2.6*	0.73 *2.8*	0.68 *2.6*	0.91 *3.5*	1.0 *3.9*	—	—	—	—	—	—	0.73 *2.8*	0.68 *2.6*	0.73 *2.8*	0.68 *2.6*	0.91 *3.5*	1.0 *3.9*
C 51 2	0.81 *3.1*	0.78 *3.0*	0.81 *3.1*	0.78 *3.0*	1.1 *4.3*	1.3 *5.0*	—	—	—	—	—	—	0.81 *3.1*	0.78 *3.0*	0.81 *3.1*	0.78 *3.0*	1.1 *4.3*	1.3 *5.0*
C 51 3	0.78 *3.0*	0.73 *2.8*	0.81 *3.1*	0.78 *3.0*	1.1 *4.1*	1.3 *4.9*	—	—	—	—	—	—	0.78 *3.0*	0.73 *2.8*	0.81 *3.1*	0.78 *3.0*	1.1 *4.1*	1.3 *4.9*
C 51 4	1.1 *4.3*	1.1 *4.1*	1.1 *4.4*	1.1 *4.2*	1.4 *5.4*	1.6 *6.1*	—	—	—	—	—	—	1.1 *4.3*	1.1 *4.1*	1.1 *4.4*	1.1 *4.2*	1.4 *5.4*	1.6 *6.1*

Life lubricated

Quantities are $\frac{\text{gallons}}{\textit{litres}}$

Oil quantity

(B3) — SHELL Tivela Oil S 320 (for life)

	P - NP						F - NF						NU - NUF					
	B3	B6	B7	B8	V5	V6	B5	B51	B53	B52	V1	V3	B5	B51	B53	B52	V1	V3
C 61 2	1.1 *4.2*	1.0 *4.0*	1.1 *4.2*	1.1 *4.1*	1.6 *6.0*	1.7 *6.7*	—	—	—	—	—	—	1.1 4.2	1.0 4.0	1.1 4.2	1.1 4.1	1.6 6.0	1.7 6.7
C 61 3	1.1 *4.2*	1.0 *4.0*	1.1 *4.2*	1.1 *4.1*	1.6 *6.0*	1.7 *6.7*	—	—	—	—	—	—	1.1 4.2	1.0 4.0	1.1 4.2	1.1 4.1	1.6 6.0	1.7 6.7
C 61 4	1.6 *6.1*	1.5 *5.9*	1.6 *6.1*	1.6 *6.0*	2.1 *7.9*	2.2 *8.6*	—	—	—	—	—	—	1.6 6.1	1.5 5.9	1.6 6.1	1.6 6.0	2.1 7.9	2.2 8.6
C 70 2	1.7 *6.5*	2.2 *8.5*	2.2 *8.5*	2.0 *7.5*	2.9 *11*	2.0 *7.5*	1.7 *6.5*	2.2 *8.5*	2.2 *8.5*	2.0 *7.5*	2.9 *11*	2.0 *7.5*	—	—	—	—	—	—
C 70 3	1.7 *6.5*	2.2 *8.5*	2.2 *8.5*	2.0 *7.5*	2.9 *11*	2.0 *7.5*	1.7 *6.5*	2.2 *8.5*	2.2 *8.5*	2.0 *7.5*	2.9 *11*	2.0 *7.5*	—	—	—	—	—	—
C 70 4	1.7 *6.5*	2.2 *8.5*	2.2 *8.5*	2.0 *7.5*	2.9 *11*	2.1 *8.0*	1.7 *6.5*	2.2 *8.5*	2.2 *8.5*	2.0 *7.5*	2.9 *11*	2.0 *7.5*	—	—	—	—	—	—
C 80 2	2.9 *11*	3.6 *14*	3.6 *14*	3.4 *13*	4.7 *18*	3.4 *13*	2.9 *11*	3.6 *14*	3.6 *14*	3.4 *13*	4.7 *18*	3.4 *13*	—	—	—	—	—	—
C 80 3	2.9 *11*	3.6 *14*	3.6 *14*	3.4 *13*	4.7 *18*	3.4 *13*	2.9 *11*	3.6 *14*	3.6 *14*	3.4 *13*	4.7 *18*	3.4 *13*	—	—	—	—	—	—
C 80 4	2.9 *11*	3.6 *14*	3.6 *14*	3.4 *13*	4.7 *18*	3.4 *13*	2.9 *11*	3.6 *14*	3.6 *14*	3.4 *13*	4.7 *18*	3.4 *13*	—	—	—	—	—	—
C 90 2	4.9 *19*	6.5 *25*	6.5 *25*	5.7 *22*	8.1 *31*	5.7 *22*	4.9 *19*	6.5 *25*	6.5 *25*	5.7 *22*	8.1 *31*	5.7 *22*	—	—	—	—	—	—
C 90 3	4.9 *19*	6.5 *25*	6.5 *25*	5.7 *22*	8.1 *31*	5.7 *22*	4.9 *19*	6.5 *25*	6.5 *25*	5.7 *22*	8.1 *31*	5.7 *22*	—	—	—	—	—	—
C 90 4	4.9 *19*	6.5 *25*	6.5 *25*	5.7 *22*	8.1 *31*	5.7 *22*	4.9 *19*	6.5 *25*	6.5 *25*	5.7 *22*	8.1 *31*	5.7 *22*	—	—	—	—	—	—
C 100 2	7.0 *27*	9.6 *37*	9.6 *37*	8.6 *33*	11.7 *45*	8.6 *33*	7.0 *27*	9.6 *37*	9.6 *37*	8.6 *33*	11.7 *45*	8.6 *33*	—	—	—	—	—	—
C 100 3	7.0 *27*	9.6 *37*	9.6 *37*	8.6 *33*	11.7 *45*	8.6 *33*	7.0 *27*	9.6 *37*	9.6 *37*	8.6 *33*	11.7 *45*	8.6 *33*	—	—	—	—	—	—
C 100 4	7.0 *27*	9.6 *37*	9.6 *37*	8.6 *33*	11.7 *45*	8.6 *33*	7.0 *27*	9.6 *37*	9.6 *37*	8.6 *33*	11.7 *45*	8.6 *33*	—	—	—	—	—	—

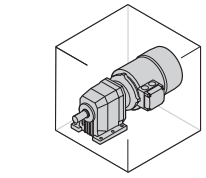
Quantities are $\frac{\text{gallons}}{\textit{litres}}$

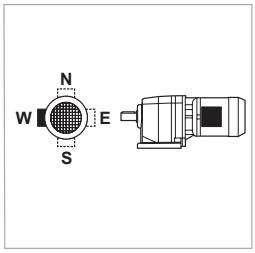
2.7 MOUNTING POSITION AND TERMINAL BOX SPECIFICATION

	Fill / breather plug		Level plug		Drain plug

Input: | **HS** | **P (IEC) N (NEMA)** | **S**

B3





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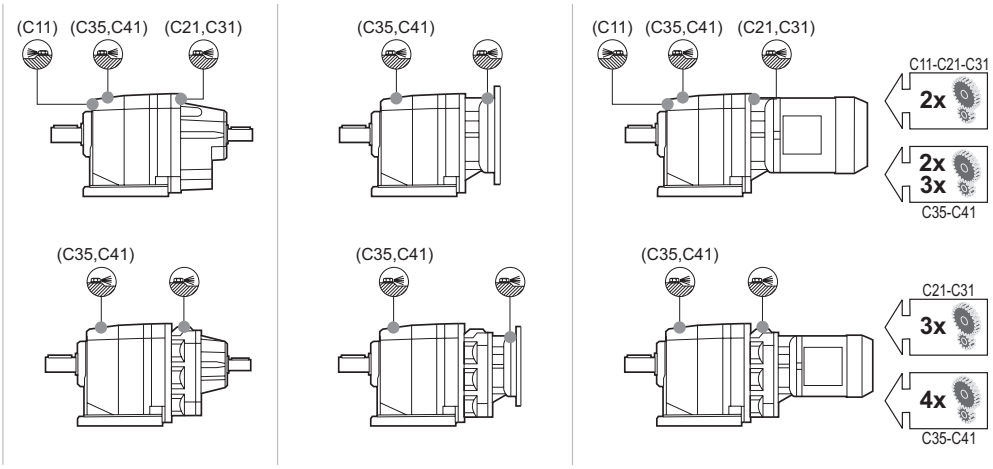
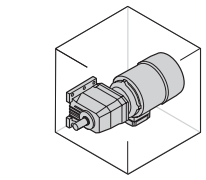
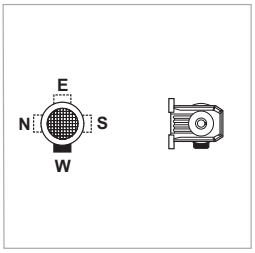


B6





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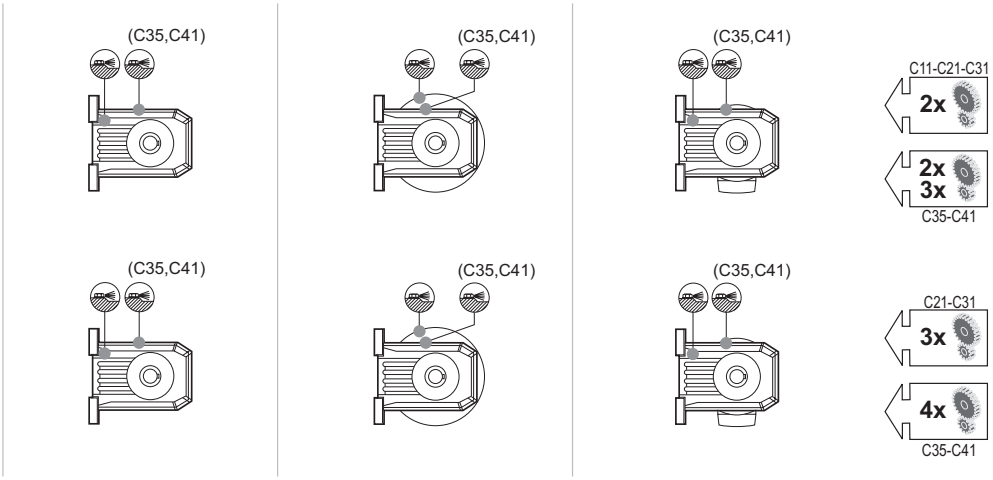
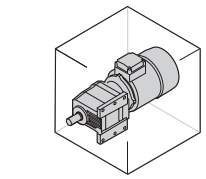
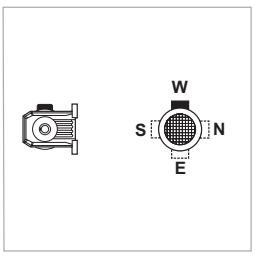


B7





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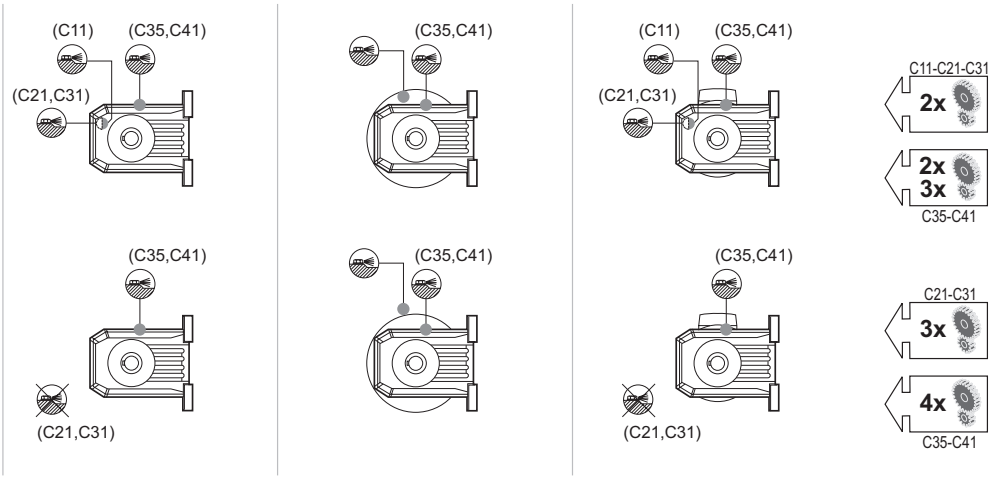
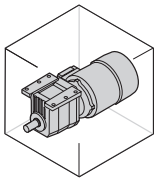
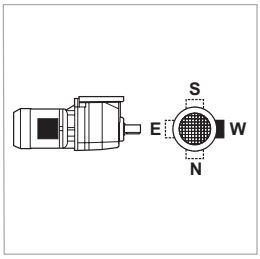


Input:	HS	P (IEC) N (NEMA)	S

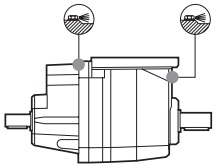
B8



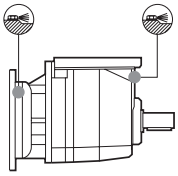


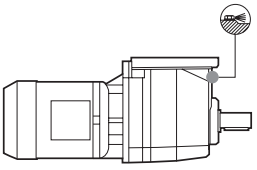
W = Default

(C21,C31) (C11,C35,C41)



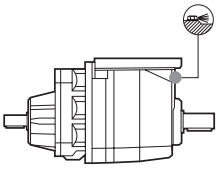
(C35,C41)



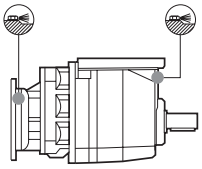


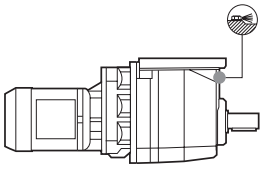
C11-C21-C31 **2x**

2x **3x** C35-C41



(C35,C41)

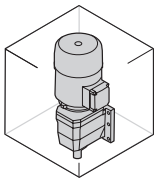


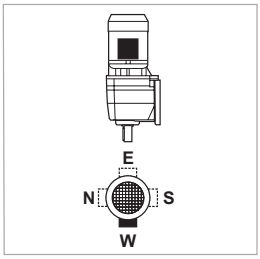


C21-C31 **3x**

4x C35-C41

V5

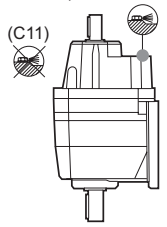




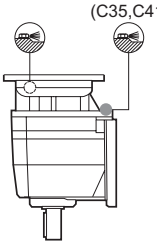
W = Default

(C21, C31,C35,C41)

(C11)

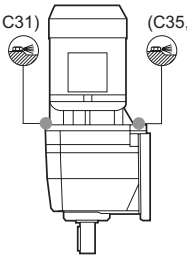


(C35,C41)



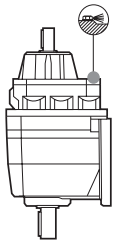
(C21, C31) (C35,C41)

(C11)

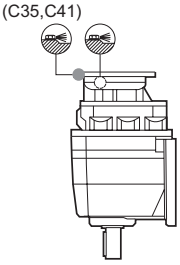


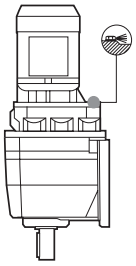
C11-C21-C31 **2x**

2x **3x** C35-C41



(C35,C41)

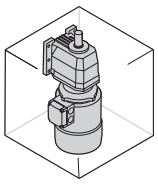




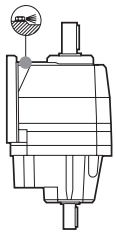
C21-C31 **3x**

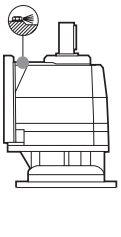
4x C35-C41

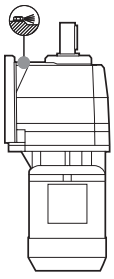
V6



W = Default

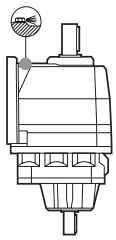


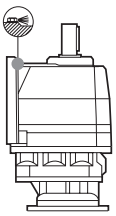


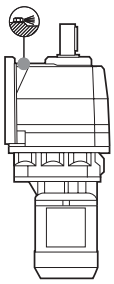


C11-C21-C31 **2x**

2x **3x** C35-C41





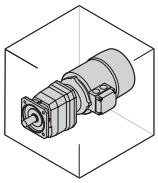


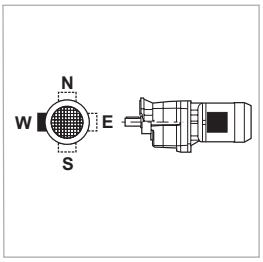
C21-C31 **3x**

4x C35-C41

Input: | **HS** | **P (IEC) N (NEMA)** | **S**

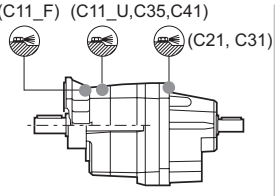
B5



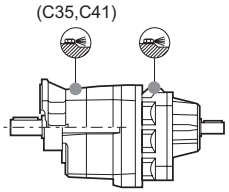


W = Default

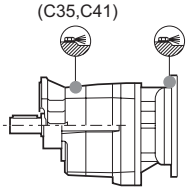
(C11_F) (C11_U,C35,C41) (C21, C31)



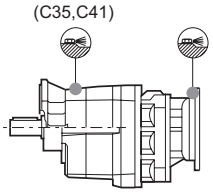
(C35,C41)



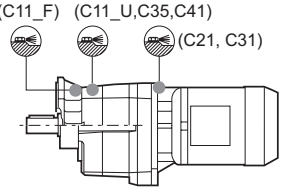
(C35,C41)



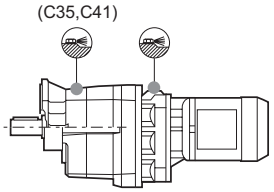
(C35,C41)



(C11_F) (C11_U,C35,C41) (C21, C31)



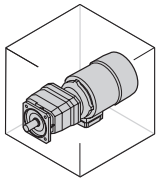
(C35,C41)

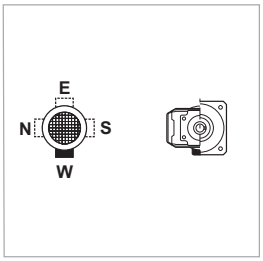


C11-C21-C31
2x
2x
3x
C35-C41

C21-C31
3x
4x
C35-C41

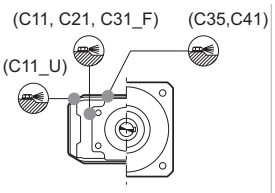
B51



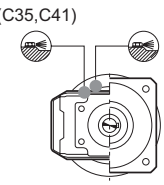


W = Default

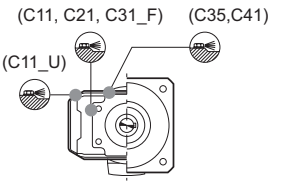
(C11, C21, C31_F) (C35,C41) (C11_U)



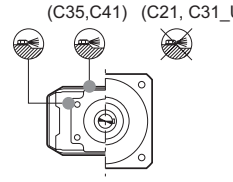
(C35,C41)



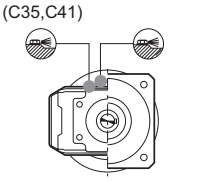
(C11, C21, C31_F) (C35,C41) (C11_U)



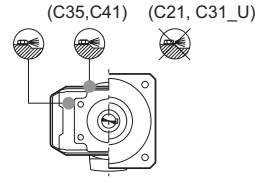
(C35,C41) (C21, C31_U)



(C35,C41)



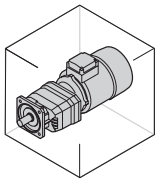
(C35,C41) (C21, C31_U)

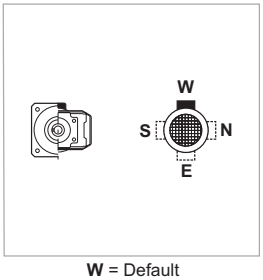


C11-C21-C31
2x
2x
3x
C35-C41

C21-C31
3x
4x
C35-C41

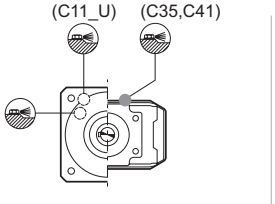
B53



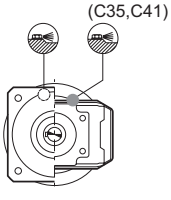


W = Default

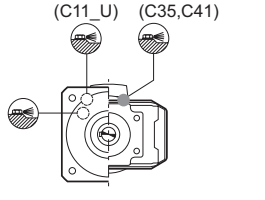
(C11_U) (C35,C41)



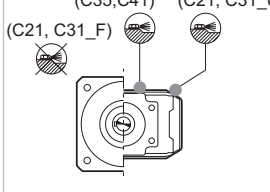
(C35,C41)



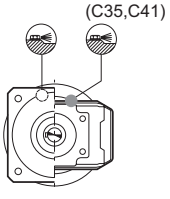
(C11_U) (C35,C41)



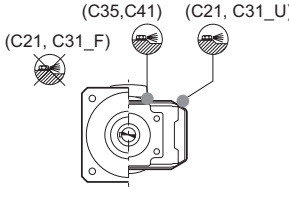
(C35,C41) (C21, C31_U) (C21, C31_F)



(C35,C41)



(C35,C41) (C21, C31_U) (C21, C31_F)

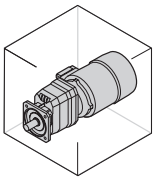


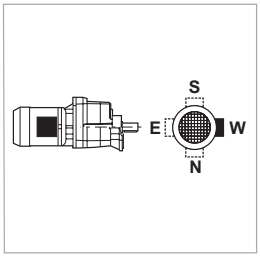
C11-C21-C31
2x
2x
3x
C35-C41

C21-C31
3x
4x
C35-C41

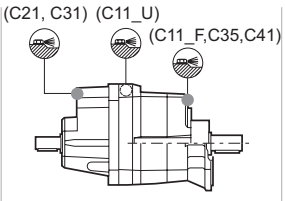
Input:	HS	P (IEC) N (NEMA)	S

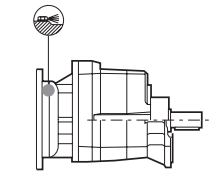
B52

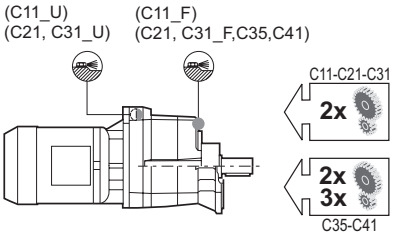


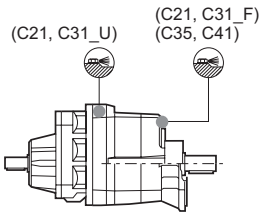


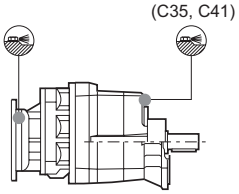
W = Default

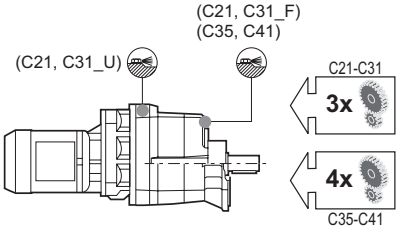




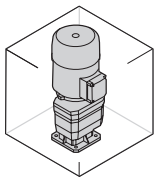


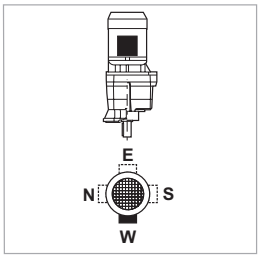




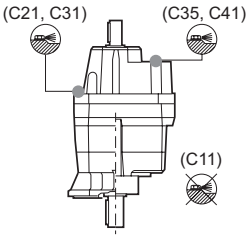


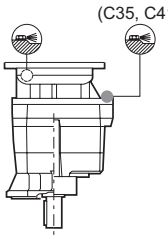
V1

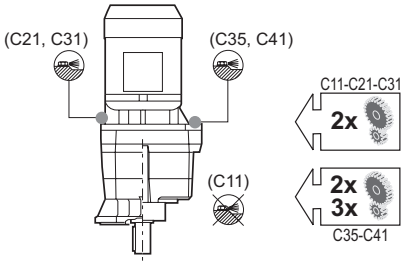


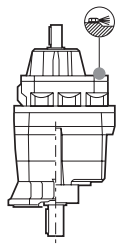


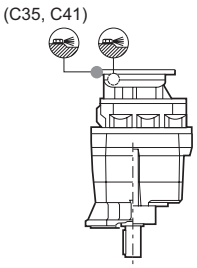
W = Default

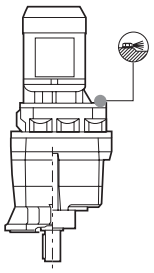












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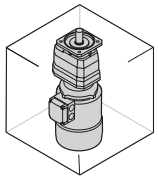

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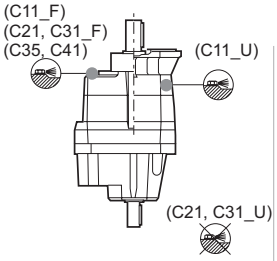
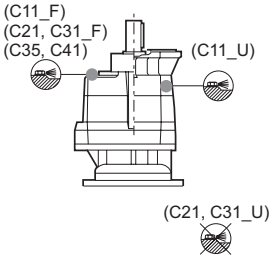
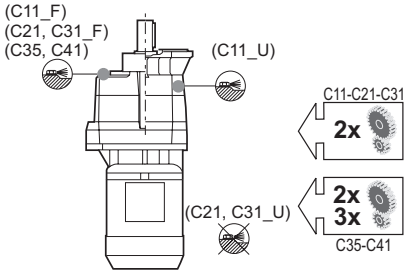
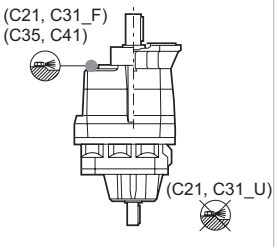
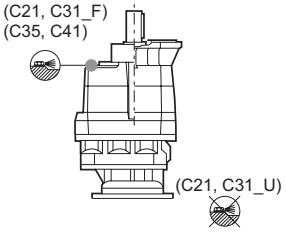
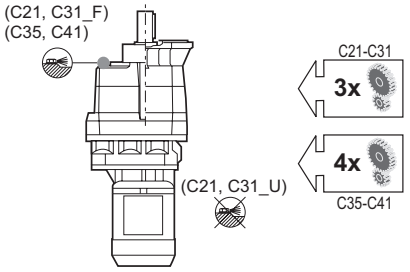






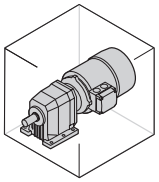


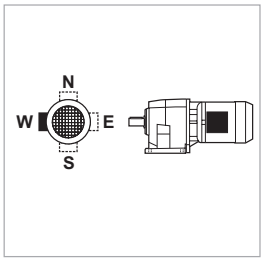




Input:	HS	P (IEC) N (NEMA)	S

B3





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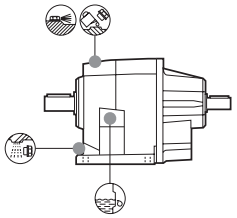
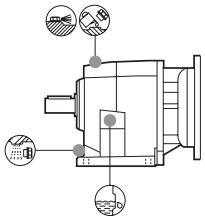
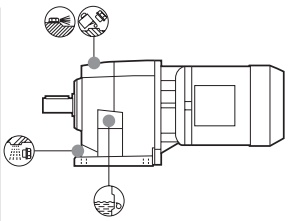

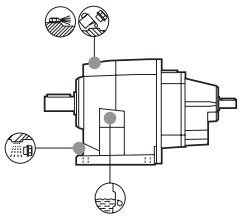
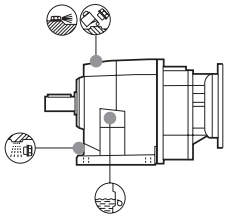
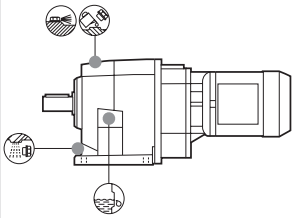

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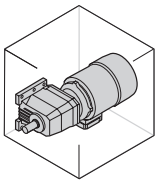

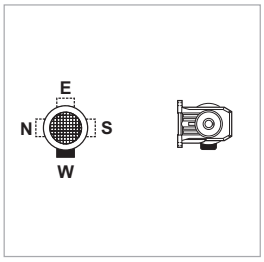

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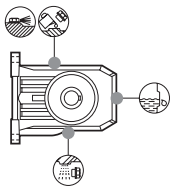
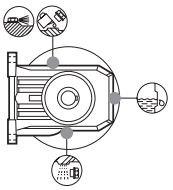
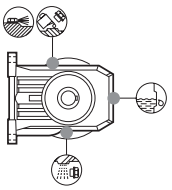

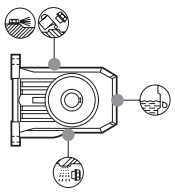
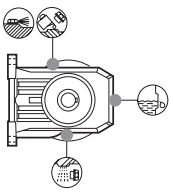
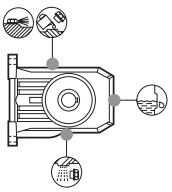

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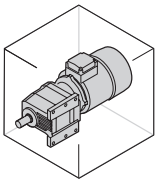

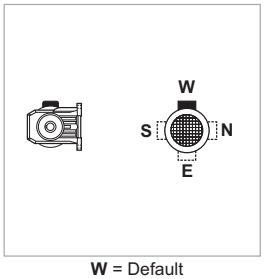

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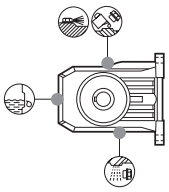
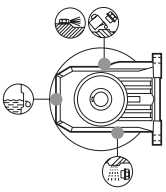
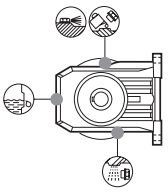
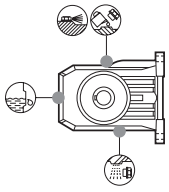
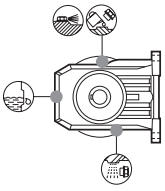
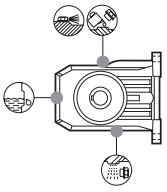
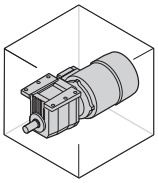
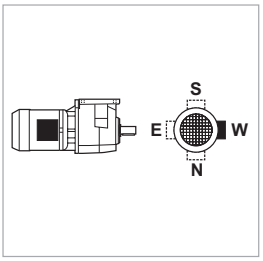




Input:	HS	P (IEC) N (NEMA)	S

B8





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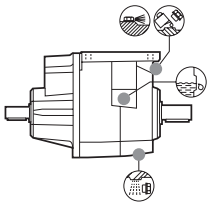
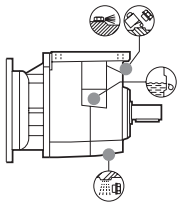
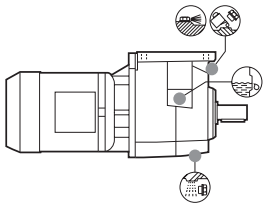
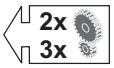
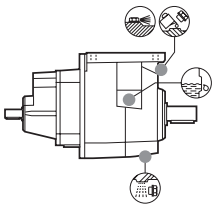
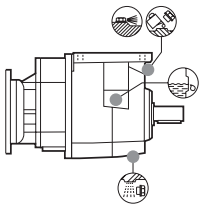
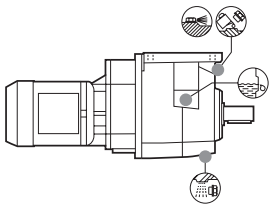
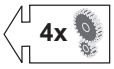
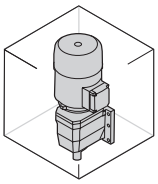
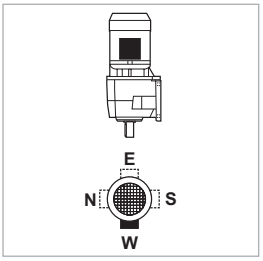





V5





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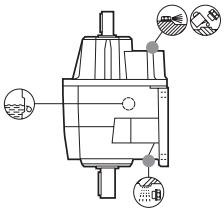
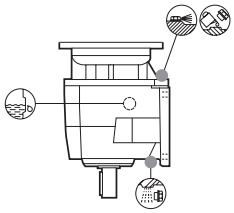
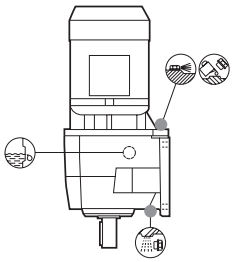
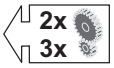
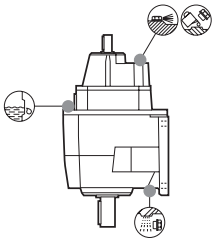
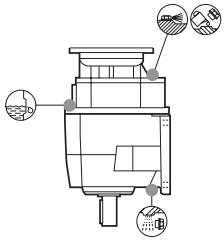
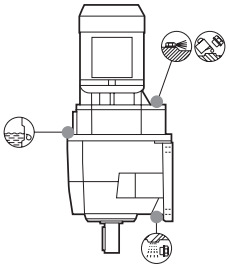
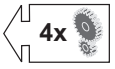
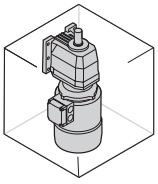





V6



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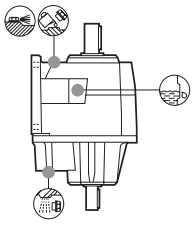
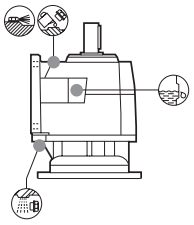
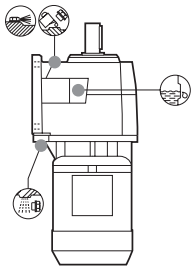
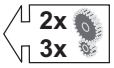
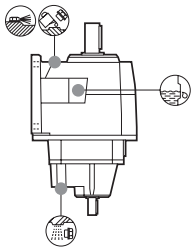
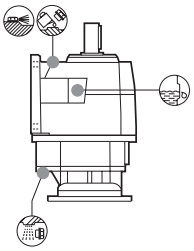
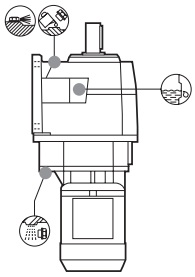
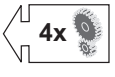
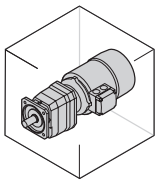
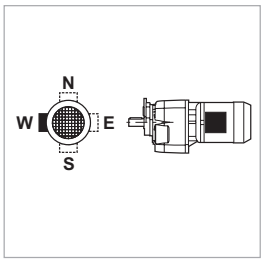





Input:	HS	P (IEC) N (NEMA)	S

B5





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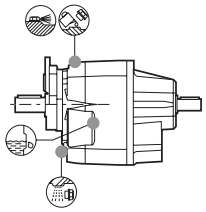
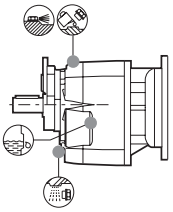
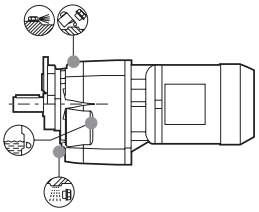
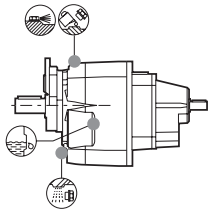
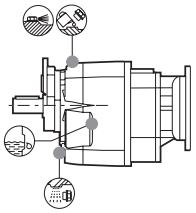
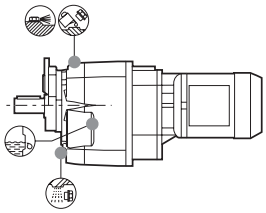
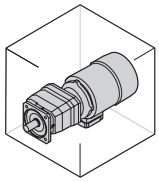
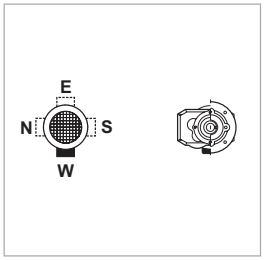




B51





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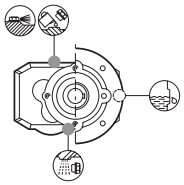
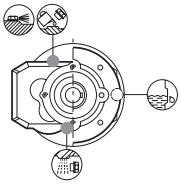
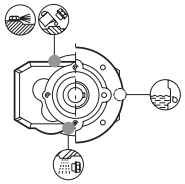
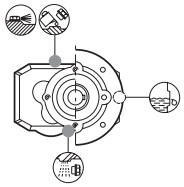
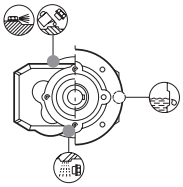
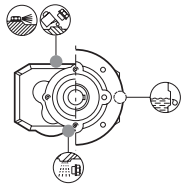
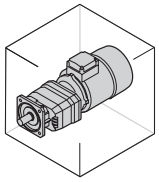
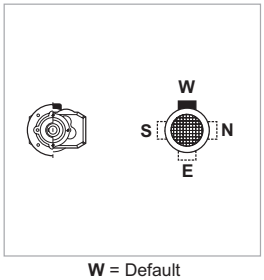




B53





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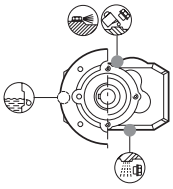
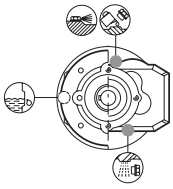
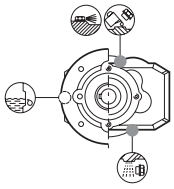
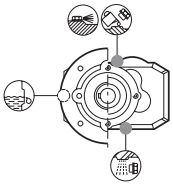
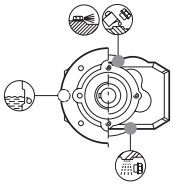
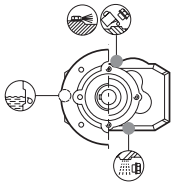
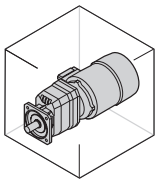
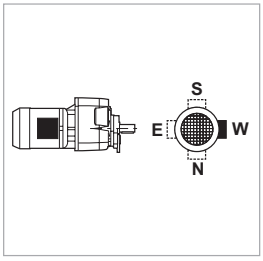




Input:	HS	P (IEC) N (NEMA)	S

B52





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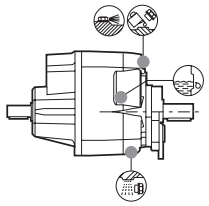
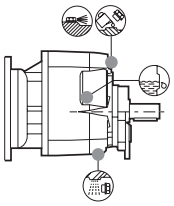
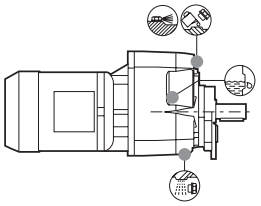
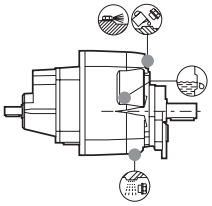
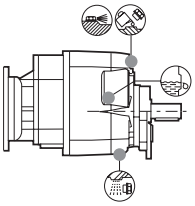
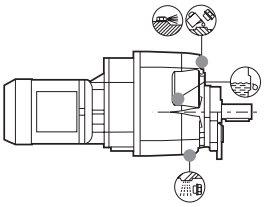
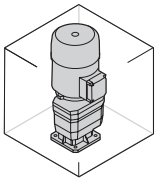
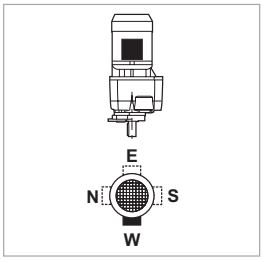




V1





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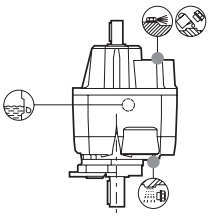
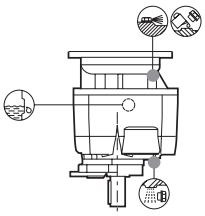
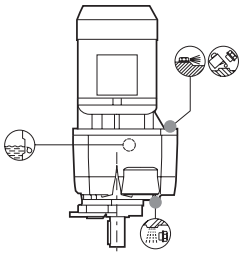
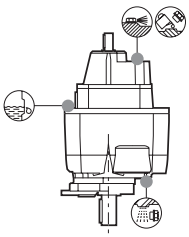
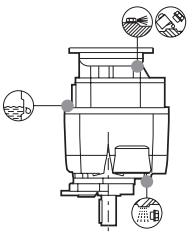
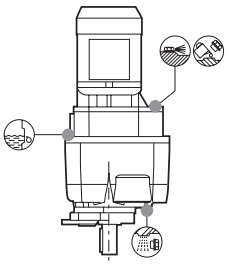
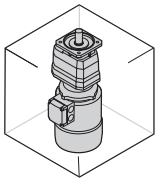




V3



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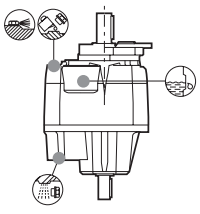
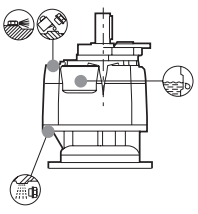
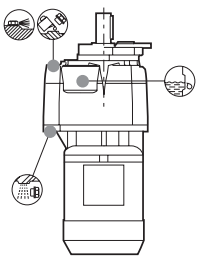
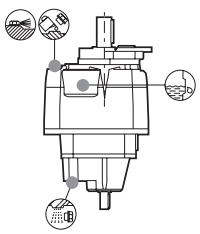
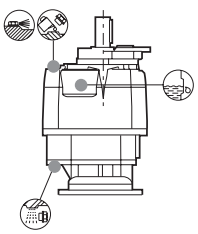
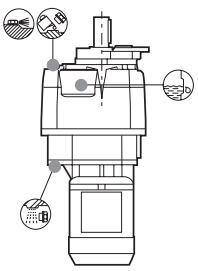
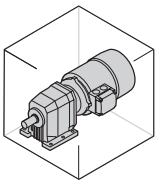
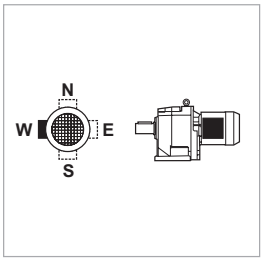




Input:	HS	P (IEC) N (NEMA)	S

B3





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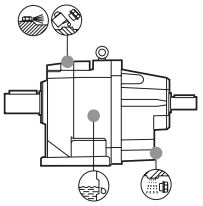
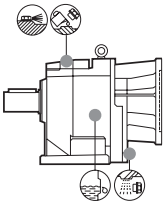
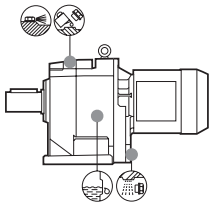
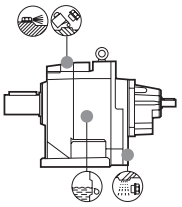
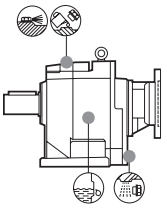
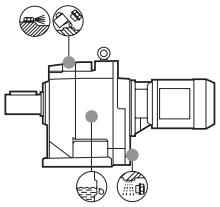
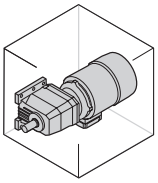
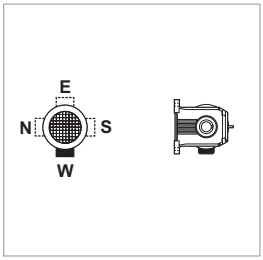




B6





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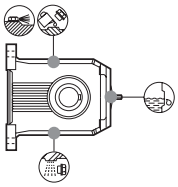
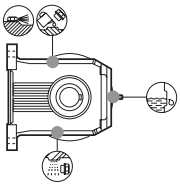
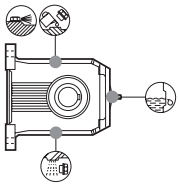

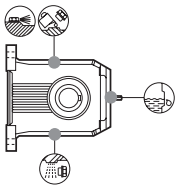
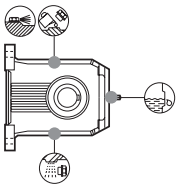
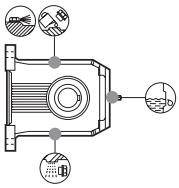

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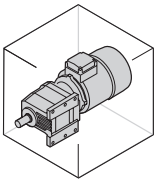

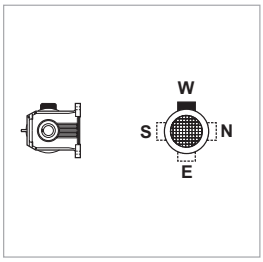

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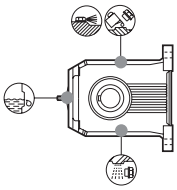
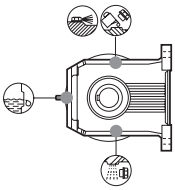
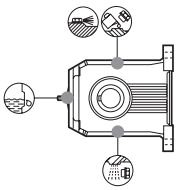
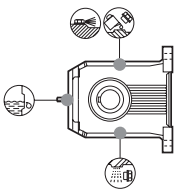
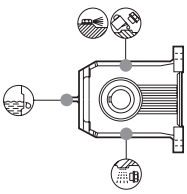
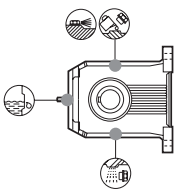
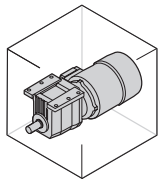
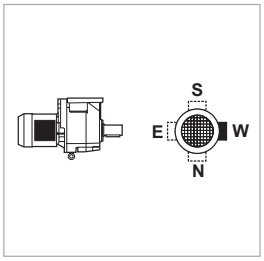




Input:	HS	P (IEC) N (NEMA)	S

B8





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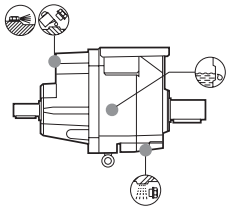

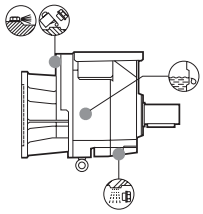

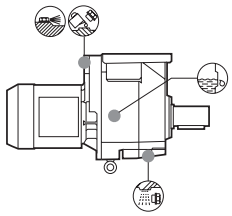

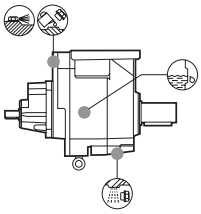

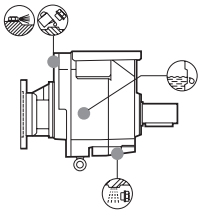

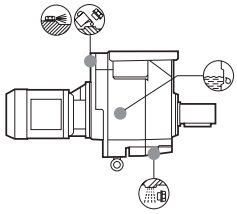

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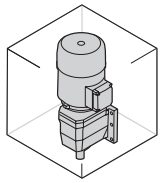
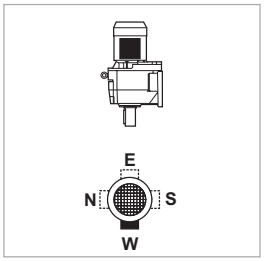
V5





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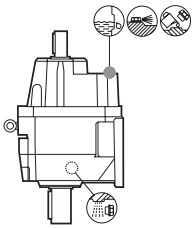

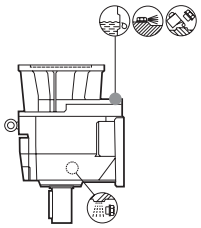

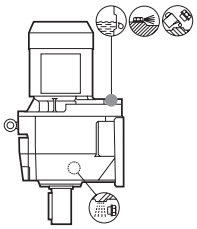

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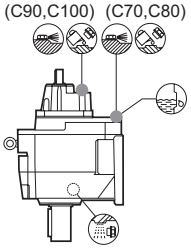

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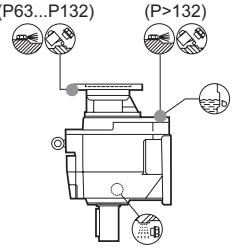

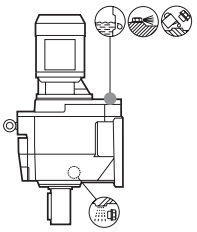

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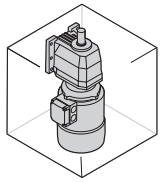
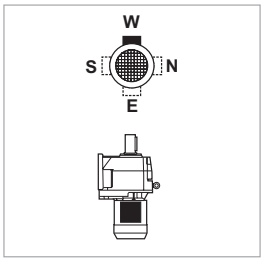
4x

V6





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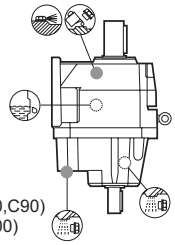

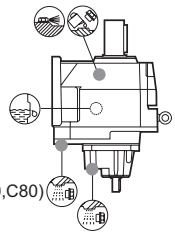

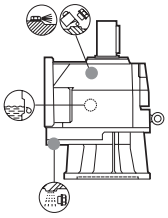

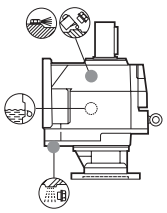

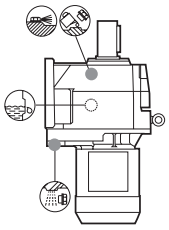

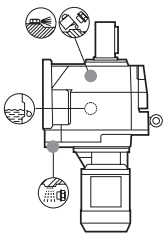

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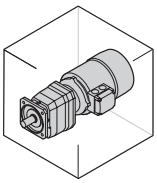
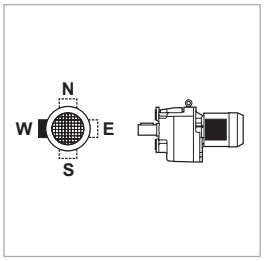
4x

Input:	HS	P (IEC) N (NEMA)	S

B5





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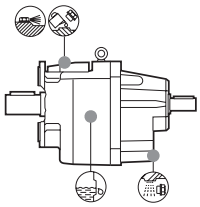
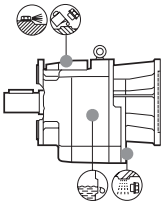
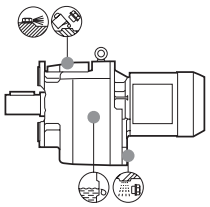

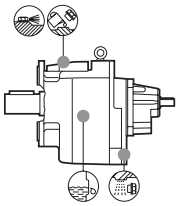
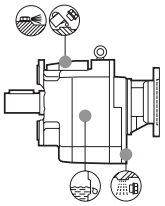
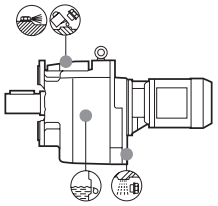

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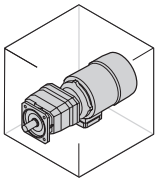

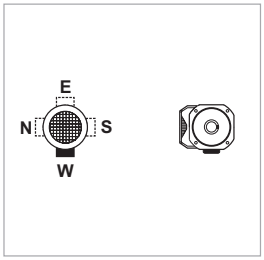

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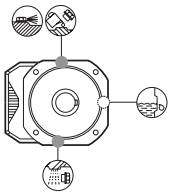
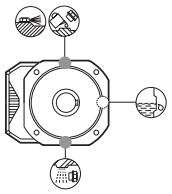
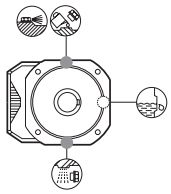

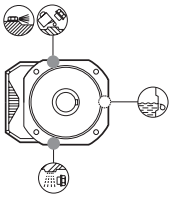
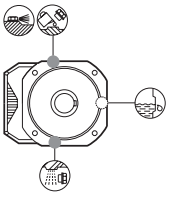
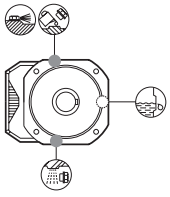

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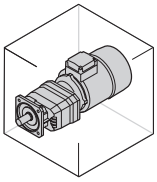

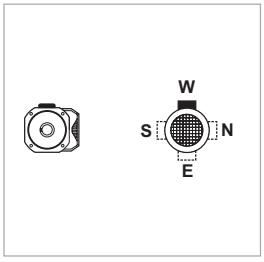

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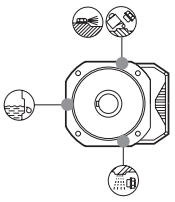
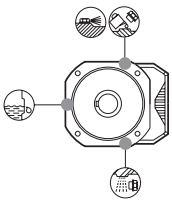
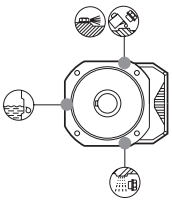
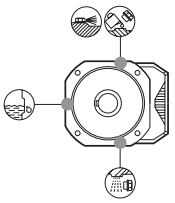
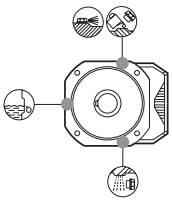
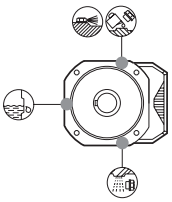
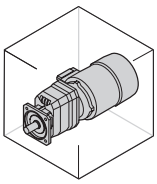
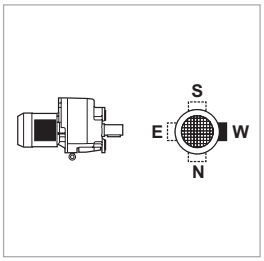




Input:	HS	P (IEC) N (NEMA)	S

B52





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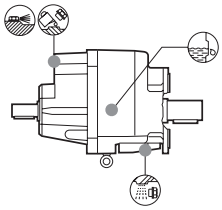
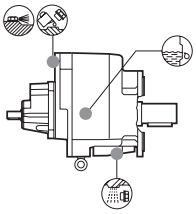
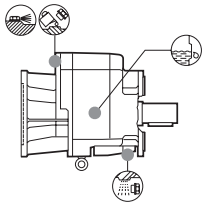
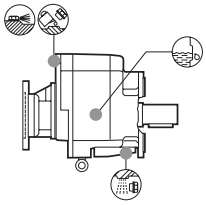
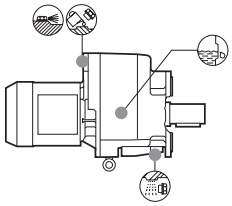
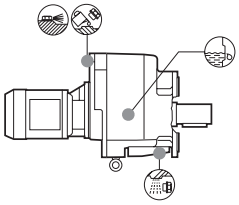








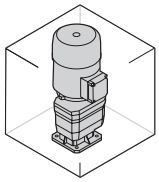


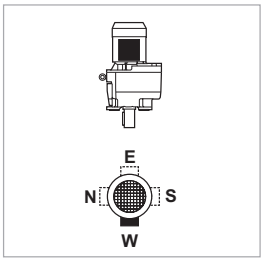


2x 3x

4x

V1





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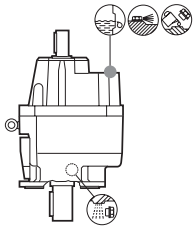
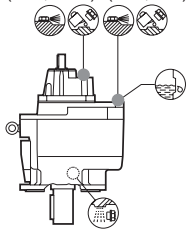
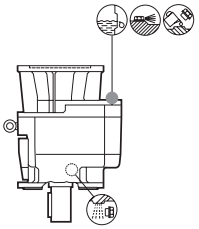
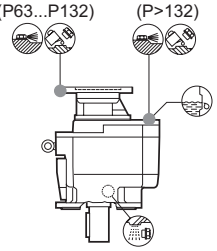


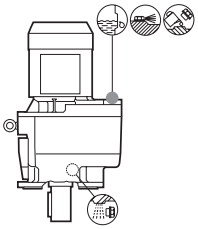
(C90,C100) (C70,C80)



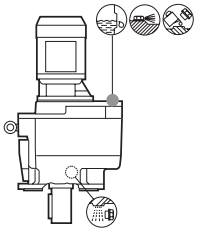


(P63...P132) (P>132)



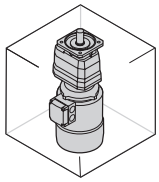


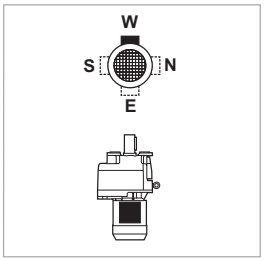
2x 3x



4x

V3





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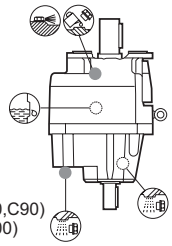
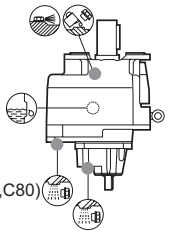
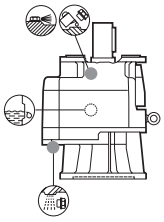
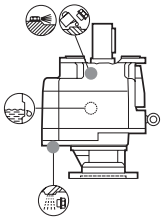


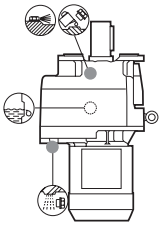
(C70,C90) (C100) (C80)

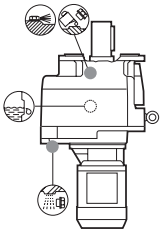


(C70,C80) (C90,C100)









2x 3x

4x

2.8 OVERHUNG LOADS

Input and output shaft of speed reducer can be subject to loading generated by the transmission keyed on the shaft itself.
Overhung load can be calculated with the following formula where all factors are determined at shaft under study.
[N.B. ($_1$) = input shaft; ($_2$) = output shaft]

$$R_c = \frac{2 \times T \times K_r}{d}$$

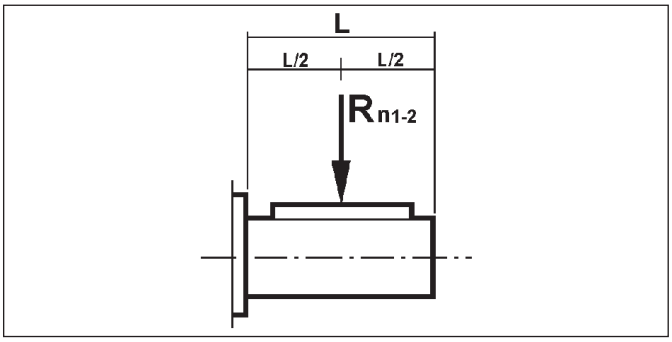
R_c = overhung load in [lbs]
T = torque in [lb·in]
d = pitch diameter in inches of sprocket, pinion, sheave or pulley
K_r = transmission element factor

Sprocket (single or multiple strand)	1.0
Spur or helical pinion	1.25
V-belt sheave	1.50
Flat belt pulley	2.50

a) load R_{c1} or R_{c2} applied at midpoint of shaft as indicated in table (B4).
This value can be directly compared with rated OHL capacity by observing the condition:

$R_{c1} \leq R_{n1}$; $R_{c2} \leq R_{n2}$

(B4)



b) load applied at distance "x" from shaft shoulder as shown in table (B5).
Conversion to the new permitted overhung load values R_{x1} and R_{x2} is obtained from the following equation:

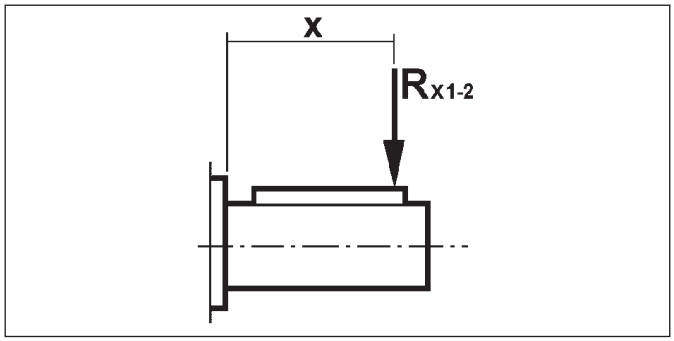
$$R_{x1} = R_{n1} \times \frac{a}{b + "x"} \quad ; \quad R_{x2} = R_{n2} \times \frac{a}{b + "x"}$$

as long as $\frac{L}{2} < "x" < c$

R_{n1}, R_{n2} = permitted OHL on shaft mid-point [lbs] (radial load table)
a = load location factor
b = load location factor
c = load location factor
x = distance of load from shaft shoulder [in]

load location factors **a**, **b**, **c** are shown in table (B6).

(B5)



(B6)

	Load location factors [in]					
	Low speed shaft			High speed shaft		
	a	**b**	**c**	**a**	**b**	**c**
C 05 2	1.5	0.7	9.8	-	-	-
C 11 2	1.8	1.0	17.7	0.8	0	11.8
C 21 2	2.1	1.1	21.7	1.6	0.8	13.8
C 21 3	2.1	1.1	21.7	0.8	0	11.8
C 31 2	2.4	1.2	29.5	1.6	0.8	13.8
C 31 3	2.4	1.2	29.5	0.8	0	11.8
C 35 2 - C 35 3	2.7	1.4	31.5	2.0	1.0	17.7
C 35 4	2.7	1.4	31.5	1.6	0	11.8
C 41 2 - C 41 3	2.7	1.4	33.5	2.0	1.0	17.7
C 41 4	2.7	1.4	33.5	1.6	0.8	13.8
C 51 2 - C 51 3	3.0	1.4	35.4	2.0	1.0	17.7
C 51 4	3.0	1.4	35.4	1.6	0.8	13.8
C 61 2 - C 61 3	3.8	1.8	39.4	2.3	1.1	17.7
C 61 4	3.8	1.8	39.4	2.0	1.0	17.7
C 70 2 - C 70 3	4.5	2.1	47.2	3.4	1.2	39.4
C 70 4	4.5	2.1	47.2	1.9	1.0	17.7
C 80 2 - C 80 3	5.2	2.4	59.1	3.4	1.2	39.4
C 80 4	5.2	2.4	59.1	1.9	1.0	17.7
C 90 2 - C 90 3	6.3	3.0	78.7	4.6	1.8	55.1
C 90 4	6.3	3.0	78.7	1.9	1.0	17.7
C 100 2 - C 100 3	6.4	2.3	98.4	4.6	1.8	55.1
C 100 4	6.4	2.3	98.4	1.9	1.0	17.7

Overhung load capacity of output shaft, R_{n2}

Rated values for radial load referred to mid-point of the output shaft are listed in the gearmotor and speed reducer rating charts. They are based on transmitted torque T_2 and rated torque T_{n2} respectively and for the most unfavourable condition as far as the load angle and rotation direction.
If permitted values are below required values, please consult our Technical Service Department reporting the load angle and shaft rotation direction.

Overhung load capacity of input shaft, R_{n1}

These values which are shown in the speed reducer selection charts refer to input speed and are calculated at mid-point of the input shaft.
If permitted values are below required values, please consult our Technical Service reporting load orientation and shaft rotation direction.

Thrust loads, A_{n1} A_{n2}

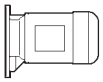
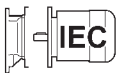
Maximum permitted thrust loads can be calculated as follows:

$A_{n1} = R_{n1} \cdot 0.2$
$A_{n2} = R_{n2} \cdot 0.2$

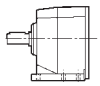
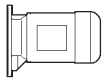
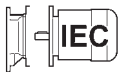
If thrust load exceeds permitted value, consult our Technical Service.

2.9 GEARMOTOR RATING CHARTS

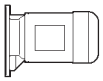
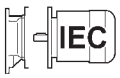
0.16 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
604	16	20.6	2.8:1	290	**C112_ 2.8**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	117...128
457	21	17.7	3.7:1	320	**C112_ 3.7**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	117...128
345	28	15.3	4.9:1	350	**C112_ 4.9**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	117...128
273	35	13.3	6.2:1	380	**C112_ 6.2**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	117...128
252	38	7.5	6.7:1	150	**C052_ 6.7**	**S05 + M05A4**			115...116
228	42	6.1	7.4:1	150	**C052_ 7.4**	**S05 + M05A4**			115...116
182	53	5.2	9.3:1	160	**C052_ 9.3**	**S05 + M05A4**			115...116
164	58	6.5	6.7:1	170	**C052_ 6.7**	**S05 + M05B6**			115...116
151	64	5.4	11.2:1	170	**C052_ 11.2**	**S05 + M05A4**			115...116
135	71	4.7	12.5:1	180	**C052_ 12.5**	**S05 + M05A4**			115...116
108	89	4.0	15.6:1	180	**C052_ 15.6**	**S05 + M05A4**			115...116
98	98	4.1	11.2:1	190	**C052_ 11.2**	**S05 + M05B6**			115...116
89	107	3.3	18.9:1	190	**C052_ 18.9**	**S05 + M05A4**			115...116
80	119	3.5	21.0:1	200	**C052_ 21.0**	**S05 + M05A4**			115...116
71	136	3.0	15.6:1	200	**C052_ 15.6**	**S05 + M05B6**			115...116
62	154	2.6	27.1:1	210	**C052_ 27.1**	**S05 + M05A4**			115...116
52	186	2.1	32.8:1	220	**C052_ 32.8**	**S05 + M05A4**			115...116
51	190	4.7	33.4:1	450	**C112_ 33.4**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	117...128
46	207	1.9	36.4:1	220	**C052_ 36.4**	**S05 + M05A4**			115...116
46	210	3.8	37.0:1	450	**C112_ 37.0**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	117...128
42	229	1.7	40.3:1	220	**C052_ 40.3**	**S05 + M05A4**			115...116
39	243	3.6	42.9:1	450	**C112_ 42.9**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	117...128
38	254	1.5	44.7:1	230	**C052_ 44.7**	**S05 + M05A4**			115...116
36	270	2.9	47.6:1	450	**C112_ 47.6**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	117...128
34	282	3.1	49.7:1	450	**C112_ 49.7**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	117...128
31	313	2.5	55.2:1	450	**C112_ 55.2**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	117...128
29.6	323	3.1	57.0:1	1120	**C212_ 57.0**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	129...140
28.4	338	2.1	59.6:1	450	**C112_ 59.6**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	117...128
25.5	376	2.1	66.2:1	450	**C112_ 66.2**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	117...128
20.5	457	3.9	82.6:1	1120	**C213_ 82.6**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	129...140
18.7	499	3.5	90.2:1	1120	**C213_ 90.2**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	129...140
16.9	554	3.2	100.2:1	1120	**C213_ 100.2**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	129...140
15.4	608	2.9	110.0:1	1120	**C213_ 110.0**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	129...140
13.8	676	2.6	122.2:1	1120	**C213_ 122.2**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	129...140
13.8	677	3.9	122.4:1	1240	**C313_ 122.4**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	141...152
12.6	739	3.6	133.6:1	1240	**C313_ 133.6**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	141...152
12.4	756	2.3	136.6:1	1120	**C213_ 136.6**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	129...140
11.4	821	3.2	148.4:1	1240	**C313_ 148.4**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	141...152

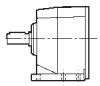
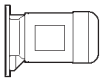
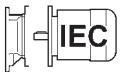
0.16 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
11.1	839	2.1	151.7:1	1120	**C213_ 151.7**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	129...140
10.5	889	2.0	160.7:1	1120	**C213_ 160.7**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	129...140
10.1	926	2.9	167.5:1	1240	**C313_ 167.5**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	141...152
9.5	987	1.8	178.5:1	1120	**C213_ 178.5**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	129...140
8.7	1074	2.4	194.1:1	1240	**C313_ 194.1**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	141...152
8.3	1124	1.3	203.2:1	1120	**C213_ 203.2**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	129...140
7.8	1193	2.2	215.6:1	1240	**C313_ 215.6**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	141...152
7.5	1249	1.3	225.8:1	1120	**C213_ 225.8**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	129...140
6.8	1366	1.3	160.7:1	1120	**C213_ 160.7**	**S05 + M05B6**	**P63 + BN63B6**	**N56C**	129...140
6.8	1368	1.5	247.3:1	1240	**C313_ 247.3**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	141...152
6.4	1419	3.7	263.0:1	1570	**C414_ 263.0**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
6.2	1517	1.2	178.5:1	1120	**C213_ 178.5**	**S05 + M05B6**	**P63 + BN63B6**	**N56C**	129...140
6.2	1519	1.5	274.7:1	1240	**C313_ 274.7**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	141...152
5.6	1641	3.2	304.2:1	1570	**C414_ 304.2**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
5.3	1720	2.3	318.9:1	1460	**C354_ 318.9**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	153...160
5.1	1798	3.0	333.4:1	1570	**C414_ 333.4**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
4.9	1857	2.1	344.3:1	1460	**C354_ 344.3**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	153...160
4.5	2038	2.0	377.9:1	1460	**C354_ 377.9**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	153...160
4.4	2059	2.6	381.8:1	1570	**C414_ 381.8**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
4.0	2253	1.8	417.6:1	1460	**C354_ 417.6**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	153...160
4.0	2257	2.4	418.5:1	1570	**C414_ 418.5**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
3.8	2428	2.2	450.2:1	1570	**C414_ 450.2**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
3.7	2473	1.6	458.4:1	1460	**C354_ 458.4**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	153...160
3.4	2662	2.0	493.5:1	1570	**C414_ 493.5**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
3.2	2824	1.4	523.5:1	1460	**C354_ 523.5**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	153...160
3.1	2932	1.8	543.5:1	1570	**C414_ 543.5**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
2.9	3100	1.3	574.7:1	1460	**C354_ 574.7**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	153...160
2.8	3214	1.7	595.8:1	1570	**C414_ 595.8**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
2.8	3272	1.2	606.6:1	1460	**C354_ 606.6**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	153...160
2.5	3592	1.1	665.9:1	1460	**C354_ 665.9**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	153...160
2.5	3621	1.5	671.3:1	1570	**C414_ 671.3**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
2.3	3969	1.3	735.9:1	1570	**C414_ 735.9**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
2.2	4210	1.3	780.4:1	1570	**C414_ 780.4**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
2.1	4358	2.0	808.0:1	2250	**C514_ 808.0**		**P63 + BN63A4**	**N56C**	169...176
2.0	4615	1.2	855.5:1	1570	**C414_ 855.5**	**S05 + M05A4**	**P63 + BN63A4**	**N56C**	161...168
1.5	5948	1.5	717.7:1	2250	**C514_ 717.7**		**P63 + BN63B6**	**N56C**	169...176
1.2	7333	1.2	884.9:1	2250	**C514_ 884.9**		**P63 + BN63B6**	**N56C**	169...176

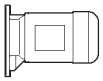
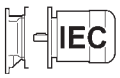
0.25 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
596	25	13.0	2.8:1	290	**C112_ 2.8**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
451	33	11.2	3.7:1	320	**C112_ 3.7**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
341	44	9.7	4.9:1	350	**C112_ 4.9**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
304	49	5.5	5.5:1	140	**C052_ 5.5**	**S05 + M05B4**			115...116
269	56	8.4	6.2:1	380	**C112_ 6.2**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
249	60	4.2	6.7:1	140	**C052_ 6.7**	**S05 + M05B4**			115...116
226	66	4.0	7.4:1	150	**C052_ 7.4**	**S05 + M05B4**			115...116
180	83	3.0	9.3:1	160	**C052_ 9.3**	**S05 + M05B4**			115...116
149	100	3.6	11.2:1	160	**C052_ 11.2**	**S05 + M05B4**			115...116
134	112	3.1	12.5:1	170	**C052_ 12.5**	**S05 + M05B4**			115...116
107	140	2.5	15.6:1	170	**C052_ 15.6**	**S05 + M05B4**			115...116
97	154	4.4	17.2:1	450	**C112_ 17.2**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
90	167	4.2	18.6:1	450	**C112_ 18.6**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
88	170	2.0	18.9:1	180	**C052_ 18.9**	**S05 + M05B4**			115...116
81	185	3.9	20.6:1	450	**C112_ 20.6**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
80	188	2.1	21.0:1	180	**C052_ 21.0**	**S05 + M05B4**			115...116
73	205	3.7	22.8:1	450	**C112_ 22.8**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
66	228	3.4	25.4:1	450	**C112_ 25.4**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
62	243	1.6	27.1:1	180	**C052_ 27.1**	**S05 + M05B4**			115...116
57	265	3.1	29.5:1	450	**C112_ 29.5**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
51	294	1.4	32.8:1	190	**C052_ 32.8**	**S05 + M05B4**			115...116
50	300	3.0	33.4:1	450	**C112_ 33.4**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
46	327	1.2	36.4:1	190	**C052_ 36.4**	**S05 + M05B4**			115...116
45	332	2.4	37.0:1	450	**C112_ 37.0**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
41	362	1.1	40.3:1	190	**C052_ 40.3**	**S05 + M05B4**			115...116
39	385	2.3	42.9:1	450	**C112_ 42.9**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
35	427	1.9	47.6:1	450	**C112_ 47.6**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
34	442	2.8	49.3:1	1120	**C212_ 49.3**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
34	446	2.0	49.7:1	450	**C112_ 49.7**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
31	491	2.8	54.7:1	1120	**C212_ 54.7**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
30	495	1.6	55.2:1	450	**C112_ 55.2**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
29.3	511	2.0	57.0:1	1120	**C212_ 57.0**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
28.4	514	3.3	58.8:1	1120	**C213_ 58.8**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
28.0	535	1.4	59.6:1	450	**C112_ 59.6**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
26.4	568	2.0	63.3:1	1120	**C212_ 63.3**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
25.6	571	3.1	65.3:1	1120	**C213_ 65.3**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
25.2	594	1.3	66.2:1	450	**C112_ 66.2**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	117...128
22.4	651	2.7	74.4:1	1120	**C213_ 74.4**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
20.2	722	3.7	82.6:1	1240	**C313_ 82.6**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	141...152
20.2	722	2.5	82.6:1	1120	**C213_ 82.6**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
18.5	789	2.2	90.2:1	1120	**C213_ 90.2**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140

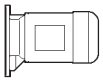
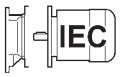
0.25 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
18.0	813	3.3	93.0:1	1240	**C313_ 93.0**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	141...152
16.7	876	2.0	100.2:1	1120	**C213_ 100.2**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
16.2	903	2.9	103.3:1	1240	**C313_ 103.3**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	141...152
15.2	962	1.8	110.0:1	1120	**C213_ 110.0**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
15.2	964	2.8	110.2:1	1240	**C313_ 110.2**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	141...152
13.7	1069	1.7	122.2:1	1120	**C213_ 122.2**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
13.6	1071	2.5	122.4:1	1240	**C313_ 122.4**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	141...152
12.5	1168	2.3	133.6:1	1240	**C313_ 133.6**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	141...152
12.2	1195	1.5	136.6:1	1120	**C213_ 136.6**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
11.3	1298	2.0	148.4:1	1240	**C313_ 148.4**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	141...152
11.0	1327	1.3	151.7:1	1120	**C213_ 151.7**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
10.0	1465	1.8	167.5:1	1240	**C313_ 167.5**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	141...152
9.4	1561	1.1	178.5:1	1120	**C213_ 178.5**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	129...140
8.6	1698	1.5	194.1:1	1240	**C313_ 194.1**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	141...152
7.7	1886	1.4	215.6:1	1240	**C313_ 215.6**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	141...152
7.5	1960	2.0	147.6:1	1460	**C353_ 147.6**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	153...160
7.2	1981	2.0	232.3:1	1460	**C354_ 232.3**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	153...160
6.6	2224	1.2	167.5:1	1240	**C313_ 167.5**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	141...152
6.5	2175	1.8	255.0:1	1460	**C354_ 255.0**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	153...160
6.3	2243	2.4	263.0:1	1570	**C414_ 263.0**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	161...168
5.9	2470	1.1	186.0:1	1240	**C313_ 186.0**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	141...152
5.9	2496	1.6	188.0:1	1460	**C353_ 188.0**		**P71 + BN71A6**	**N56C**	153...160
5.8	2533	2.1	190.8:1	1570	**C413_ 190.8**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	161...168
5.7	2479	1.6	290.6:1	1460	**C354_ 290.6**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	153...160
5.5	2595	2.0	304.2:1	1570	**C414_ 304.2**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	161...168
5.3	2776	1.9	209.1:1	1570	**C413_ 209.1**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	161...168
5.2	2720	1.5	318.9:1	1460	**C354_ 318.9**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	153...160
5.0	2844	1.9	333.4:1	1570	**C414_ 333.4**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	161...168
4.9	2937	1.4	344.3:1	1460	**C354_ 344.3**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	153...160
4.4	3223	1.2	377.9:1	1460	**C354_ 377.9**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	153...160
4.4	3256	1.6	381.8:1	1570	**C414_ 381.8**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	161...168
4.0	3562	1.1	417.6:1	1460	**C354_ 417.6**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	153...160
4.0	3569	1.5	418.5:1	1570	**C414_ 418.5**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	161...168
3.7	3840	1.4	450.2:1	1570	**C414_ 450.2**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	161...168
3.6	3910	1.0	458.4:1	1460	**C354_ 458.4**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	153...160
3.4	4209	1.3	493.5:1	1570	**C414_ 493.5**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	161...168
3.2	4572	0.9	344.3:1	1460	**C354_ 344.3**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	153...160
3.1	4636	1.1	543.5:1	1570	**C414_ 543.5**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	161...168
2.9	4915	1.8	379.6:1	2250	**C514_ 379.6**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	169...176
2.8	5082	1.0	595.8:1	1570	**C414_ 595.8**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	161...168
2.6	5383	1.6	415.7:1	2250	**C514_ 415.7**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	169...176

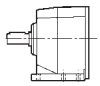
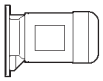
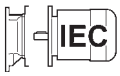
0.25 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
2.6	5419	1.0	418.5:1	1570	**C414_ 418.5**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	161...168
2.5	5590	1.6	655.4:1	2250	**C514_ 655.4**		**P63 + BN63B4**	**N56C**	169...176
2.5	5726	0.9	671.3:1	1570	**C414_ 671.3**	**S05 + M05B4**	**P63 + BN63B4**	**N56C**	161...168
2.4	5830	0.9	450.2:1	1570	**C414_ 450.2**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	161...168
2.4	5982	2.4	462.0:1	3600	**C614_ 462.0**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	177...184
2.4	6007	1.5	463.9:1	2250	**C514_ 463.9**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	169...176
2.3	6121	1.4	717.7:1	2250	**C514_ 717.7**		**P63 + BN63B4**	**N56C**	169...176
2.3	6195	2.3	726.3:1	3600	**C614_ 726.3**		**P63 + BN63B4**	**N56C**	177...184
2.1	6892	1.3	808.0:1	2250	**C514_ 808.0**		**P63 + BN63B4**	**N56C**	169...176
2.0	7118	1.2	549.7:1	2250	**C514_ 549.7**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	169...176
1.9	7547	1.2	884.9:1	2250	**C514_ 884.9**		**P63 + BN63B4**	**N56C**	169...176
1.5	9293	1.0	717.7:1	2250	**C514_ 717.7**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	169...176
1.5	9405	1.5	726.3:1	3600	**C614_ 726.3**	**S1 + M1SC6**	**P71 + BN71A6**	**N56C**	177...184
1.0	13842	1.5	1069:1	5620	**C704_ 1069**		**P71 + BN71A6**	**N56C**	185...192
0.81	17636	1.2	1362:1	5620	**C704_ 1362**		**P71 + BN71A6**	**N56C**	185...192

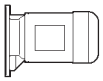
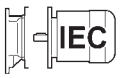
0.33 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
596	33	9.9	2.8:1	290	**C112_ 2.8**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
451	44	8.5	3.7:1	320	**C112_ 3.7**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
341	58	7.3	4.9:1	350	**C112_ 4.9**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
304	65	3.9	5.5:1	130	**C052_ 5.5**	**S05 + M05C4**			115...116
269	73	6.4	6.2:1	380	**C112_ 6.2**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
249	79	3.5	6.7:1	140	**C052_ 6.7**	**S05 + M05C4**			115...116
226	88	3.2	7.4:1	140	**C052_ 7.4**	**S05 + M05C4**			115...116
180	110	2.4	9.3:1	150	**C052_ 9.3**	**S05 + M05C4**			115...116
165	120	4.7	10.1:1	450	**C112_ 10.1**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
149	133	2.7	11.2:1	150	**C052_ 11.2**	**S05 + M05C4**			115...116
138	143	4.1	12.1:1	450	**C112_ 12.1**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
134	148	2.5	12.5:1	160	**C052_ 12.5**	**S05 + M05C4**			115...116
125	159	3.9	13.4:1	450	**C112_ 13.4**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
108	184	3.6	15.5:1	450	**C112_ 15.5**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
107	185	1.9	15.6:1	160	**C052_ 15.6**	**S05 + M05C4**			115...116
97	204	3.3	17.2:1	450	**C112_ 17.2**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
90	220	3.2	18.6:1	450	**C112_ 18.6**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
88	224	1.6	18.9:1	160	**C052_ 18.9**	**S05 + M05C4**			115...116

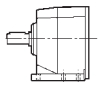
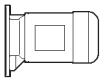
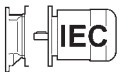
0.33 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
81	244	3.0	20.6:1	450	**C112_ 20.6**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
80	249	1.5	21.0:1	160	**C052_ 21.0**	**S05 + M05C4**			115...116
73	270	2.8	22.8:1	450	**C112_ 22.8**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
66	301	2.6	25.4:1	450	**C112_ 25.4**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
62	321	1.3	27.1:1	160	**C052_ 27.1**	**S05 + M05C4**			115...116
57	349	2.4	29.5:1	450	**C112_ 29.5**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
45	436	4.1	36.8:1	1020	**C212_ 36.8**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
45	438	1.8	37.0:1	450	**C112_ 37.0**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
39	508	1.7	42.9:1	450	**C112_ 42.9**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
39	513	3.3	43.3:1	1070	**C212_ 43.3**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
35	564	1.4	47.6:1	450	**C112_ 47.6**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
34	584	2.1	49.3:1	1100	**C212_ 49.3**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
34	589	1.5	49.7:1	450	**C112_ 49.7**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
31	648	2.1	54.7:1	1120	**C212_ 54.7**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
30	654	1.2	55.2:1	450	**C112_ 55.2**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
29.3	675	1.5	57.0:1	1120	**C212_ 57.0**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
28.4	679	2.5	58.8:1	1120	**C213_ 58.8**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
28.0	706	1.0	59.6:1	450	**C112_ 59.6**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
26.4	750	1.5	63.3:1	1120	**C212_ 63.3**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
25.6	754	2.3	65.3:1	1120	**C213_ 65.3**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
25.2	784	1.0	66.2:1	450	**C112_ 66.2**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	117...128
22.5	858	3.1	74.3:1	1240	**C313_ 74.3**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	141...152
22.4	859	2.1	74.4:1	1120	**C213_ 74.4**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
20.2	954	2.8	82.6:1	1240	**C313_ 82.6**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	141...152
20.2	954	1.9	82.6:1	1120	**C213_ 82.6**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
18.5	1041	1.7	90.2:1	1120	**C213_ 90.2**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
18.2	1061	3.8	91.9:1	1460	**C353_ 91.9**		**P71 + BN71A4**	**N56C**	153...160
18.0	1074	2.5	93.0:1	1240	**C313_ 93.0**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	141...152
16.7	1157	1.5	100.2:1	1120	**C213_ 100.2**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
16.4	1173	3.4	101.6:1	1460	**C353_ 101.6**		**P71 + BN71A4**	**N56C**	153...160
16.2	1193	2.2	103.3:1	1240	**C313_ 103.3**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	141...152
15.2	1270	1.4	110.0:1	1120	**C213_ 110.0**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
15.2	1272	2.1	110.2:1	1240	**C313_ 110.2**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	141...152
15.0	1287	3.1	111.5:1	1460	**C353_ 111.5**		**P71 + BN71A4**	**N56C**	153...160
13.7	1411	1.3	122.2:1	1120	**C213_ 122.2**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
13.6	1413	1.9	122.4:1	1240	**C313_ 122.4**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	141...152
13.1	1470	2.7	127.3:1	1460	**C353_ 127.3**		**P71 + BN71A4**	**N56C**	153...160
12.6	1534	3.5	132.9:1	1570	**C413_ 132.9**		**P71 + BN71A4**	**N56C**	161...168
12.2	1577	1.1	136.6:1	1120	**C213_ 136.6**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	129...140
11.9	1614	2.5	139.8:1	1460	**C353_ 139.8**		**P71 + BN71A4**	**N56C**	153...160
11.3	1704	2.3	147.6:1	1460	**C353_ 147.6**		**P71 + BN71A4**	**N56C**	153...160

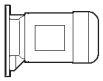
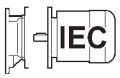
0.33 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
11.3	1713	1.5	148.4:1	1240	**C313_ 148.4**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	141...152
10.3	1870	2.1	162.0:1	1460	**C353_ 162.0**		**P71 + BN71A4**	**N56C**	153...160
10.2	1895	2.8	164.1:1	1570	**C413_ 164.1**		**P71 + BN71A4**	**N56C**	161...168
10.0	1934	1.4	167.5:1	1240	**C313_ 167.5**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	141...152
8.9	2170	1.8	188.0:1	1460	**C353_ 188.0**		**P71 + BN71A4**	**N56C**	153...160
8.8	2203	2.4	190.8:1	1570	**C413_ 190.8**		**P71 + BN71A4**	**N56C**	161...168
8.6	2241	1.2	194.1:1	1240	**C313_ 194.1**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	141...152
8.1	2383	1.7	206.4:1	1460	**C353_ 206.4**		**P71 + BN71A4**	**N56C**	153...160
7.7	2502	3.5	216.7:1	2250	**C513_ 216.7**		**P71 + BN71A4**	**N56C**	169...176
7.2	2615	1.5	232.3:1	1460	**C354_ 232.3**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	153...160
7.0	2701	2.0	239.9:1	1570	**C414_ 239.9**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	161...168
6.5	2871	1.4	255.0:1	1460	**C354_ 255.0**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	153...160
6.3	2961	1.8	263.0:1	1570	**C414_ 263.0**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	161...168
6.3	2970	3.0	263.8:1	2250	**C514_ 263.8**		**P71 + BN71A4**	**N56C**	169...176
5.7	3272	1.2	290.6:1	1460	**C354_ 290.6**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	153...160
5.6	3353	2.6	297.8:1	2250	**C514_ 297.8**		**P71 + BN71A4**	**N56C**	169...176
5.5	3425	1.6	304.2:1	1570	**C414_ 304.2**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	161...168
5.2	3590	1.1	318.9:1	1460	**C354_ 318.9**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	153...160
5.1	3671	2.4	326.1:1	2250	**C514_ 326.1**		**P71 + BN71A4**	**N56C**	169...176
5.0	3754	1.4	333.4:1	1570	**C414_ 333.4**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	161...168
4.9	3876	1.0	344.3:1	1460	**C354_ 344.3**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	153...160
4.4	4274	2.1	379.6:1	2250	**C514_ 379.6**		**P71 + BN71A4**	**N56C**	169...176
4.4	4298	1.2	381.8:1	1570	**C414_ 381.8**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	161...168
4.0	4680	1.9	415.7:1	2250	**C514_ 415.7**		**P71 + BN71A4**	**N56C**	169...176
4.0	4712	1.1	418.5:1	1570	**C414_ 418.5**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	161...168
3.7	5069	1.0	450.2:1	1570	**C414_ 450.2**	**S05 + M05C4**	**P71 + BN71A4**	**N56C**	161...168
3.0	6189	1.4	549.7:1	2250	**C514_ 549.7**		**P71 + BN71A4**	**N56C**	169...176
3.0	6326	2.2	370.1:1	3600	**C614_ 370.1**	**S1 + M1SD6**	**P71 + BN71B6**	**N56C**	177...184
2.5	7530	1.9	668.8:1	3600	**C614_ 668.8**		**P63 + BN63C4**	**N56C**	177...184
2.4	7929	1.1	463.9:1	2250	**C514_ 463.9**	**S1 + M1SD6**	**P71 + BN71B6**	**N56C**	169...176
2.3	8080	1.1	717.7:1	2250	**C514_ 717.7**		**P71 + BN71A4**	**N56C**	169...176
2.1	9097	1.0	808.0:1	2250	**C514_ 808.0**		**P63 + BN63C4**	**N56C**	169...176
2.0	9396	0.9	549.7:1	2250	**C514_ 549.7**	**S1 + M1SD6**	**P71 + BN71B6**	**N56C**	169...176
1.5	12414	1.1	726.3:1	3600	**C614_ 726.3**	**S1 + M1SD6**	**P71 + BN71B6**	**N56C**	177...184
0.94	19964	1.8	1168:1	7870	**C804_ 1168**		**P71 + BN71B6**	**N56C**	193...200
0.74	25314	1.4	1481:1	7870	**C804_ 1481**		**P71 + BN71B6**	**N56C**	193...200

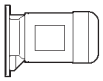
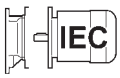
0.5 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
607	49	6.6	2.8:1	290	**C112_ 2.8**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
459	65	5.7	3.7:1	320	**C112_ 3.7**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
347	86	4.9	4.9:1	340	**C112_ 4.9**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
309	97	2.8	5.5:1	120	**C052_ 5.5**	**S1 + M1SD4**			115...116
274	109	4.3	6.2:1	370	**C112_ 6.2**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
254	118	2.3	6.7:1	130	**C052_ 6.7**	**S1 + M1SD4**			115...116
246	122	3.9	6.9:1	390	**C112_ 6.9**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
230	130	2.0	7.4:1	130	**C052_ 7.4**	**S1 + M1SD4**			115...116
224	134	3.7	7.6:1	400	**C112_ 7.6**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
200	150	2.6	5.5:1	130	**C052_ 5.5**	**S1 + M1LA6**			115...116
187	160	3.4	9.1:1	420	**C112_ 9.1**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
183	164	1.6	9.3:1	130	**C052_ 9.3**	**S1 + M1SD4**			115...116
168	178	3.1	10.1:1	430	**C112_ 10.1**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
152	197	1.8	11.2:1	130	**C052_ 11.2**	**S1 + M1SD4**			115...116
140	213	2.8	12.1:1	450	**C112_ 12.1**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
136	220	1.6	12.5:1	140	**C052_ 12.5**	**S1 + M1SD4**			115...116
127	236	2.6	13.4:1	450	**C112_ 13.4**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
110	273	2.4	15.5:1	450	**C112_ 15.5**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
109	275	1.3	15.6:1	130	**C052_ 15.6**	**S1 + M1SD4**			115...116
99	303	2.2	17.2:1	450	**C112_ 17.2**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
91	328	2.1	18.6:1	450	**C112_ 18.6**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
83	363	2.0	20.6:1	450	**C112_ 20.6**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
75	402	1.9	22.8:1	450	**C112_ 22.8**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
70	428	4.1	24.3:1	880	**C212_ 24.3**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	129...140
67	448	1.7	25.4:1	450	**C112_ 25.4**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
64	471	3.8	26.7:1	900	**C212_ 26.7**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	129...140
58	520	1.6	29.5:1	450	**C112_ 29.5**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
57	522	3.4	29.6:1	930	**C212_ 29.6**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	129...140
52	578	1.4	32.8:1	450	**C112_ 32.8**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
51	584	3.0	33.1:1	950	**C212_ 33.1**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	129...140
51	589	1.5	33.4:1	450	**C112_ 33.4**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
47	636	4.2	36.1:1	1240	**C312_ 36.1**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	141...152
46	649	2.7	36.8:1	980	**C212_ 36.8**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	129...140
46	652	1.2	37.0:1	450	**C112_ 37.0**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	117...128
44	688	2.2	39.0:1	990	**C212_ 39.0**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	129...140
42	717	3.7	40.7:1	1240	**C312_ 40.7**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	141...152
40	756	1.2	42.9:1	450	**C112_ 42.9**		**P71 + BN71B4**	**N56C**	117...128
39	763	2.2	43.3:1	1020	**C212_ 43.3**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	129...140
36	832	3.2	47.2:1	1240	**C312_ 47.2**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	141...152
34	869	1.4	49.3:1	1050	**C212_ 49.3**		**P71 + BN71B4**	**N56C**	129...140
34	876	1.0	49.7:1	450	**C112_ 49.7**		**P71 + BN71B4**	**N56C**	117...128

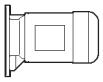
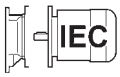
0.5 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]					
32	924	2.9	52.4:1	1240	**C312_ 52.4**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	141...152
28.9	1010	1.7	58.8:1	1100	**C213_ 58.8**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	129...140
27.4	1065	3.7	62.0:1	1460	**C353_ 62.0**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	153...160
26.0	1122	1.6	65.3:1	1120	**C213_ 65.3**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	129...140
25.4	1178	1.6	66.8:1	1240	**C312_ 66.8**		**P71 + BN71B4**	**N56C**	141...152
22.9	1277	2.1	74.3:1	1240	**C313_ 74.3**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	141...152
22.8	1278	4.2	74.4:1	1570	**C413_ 74.4**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
22.8	1278	1.4	74.4:1	1120	**C213_ 74.4**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	129...140
20.9	1400	3.8	81.5:1	1570	**C413_ 81.5**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
20.6	1419	1.9	82.6:1	1240	**C313_ 82.6**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	141...152
20.6	1419	1.2	82.6:1	1120	**C213_ 82.6**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	129...140
18.8	1550	1.1	90.2:1	1120	**C213_ 90.2**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	129...140
18.3	1598	1.7	93.0:1	1240	**C313_ 93.0**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	141...152
18.2	1603	3.3	93.3:1	1570	**C413_ 93.3**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
16.6	1758	3.0	102.3:1	1570	**C413_ 102.3**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
16.5	1775	1.5	103.3:1	1240	**C313_ 103.3**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	141...152
15.4	1892	2.8	110.1:1	1570	**C413_ 110.1**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
15.4	1894	1.4	110.2:1	1240	**C313_ 110.2**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	141...152
14.1	2072	2.6	120.6:1	1570	**C413_ 120.6**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
13.9	2103	1.3	122.4:1	1240	**C313_ 122.4**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	141...152
12.8	2284	2.3	132.9:1	1570	**C413_ 132.9**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
12.7	2296	1.2	133.6:1	1240	**C313_ 133.6**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	141...152
12.2	2402	1.7	139.8:1	1460	**C353_ 139.8**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	153...160
11.7	2502	2.1	145.6:1	1570	**C413_ 145.6**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
11.5	2536	1.6	147.6:1	1460	**C353_ 147.6**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	153...160
10.6	2758	3.2	160.5:1	2250	**C513_ 160.5**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	169...176
10.5	2784	1.4	162.0:1	1460	**C353_ 162.0**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	153...160
10.4	2820	1.9	164.1:1	1570	**C413_ 164.1**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
9.7	3021	2.9	175.8:1	2250	**C513_ 175.8**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	169...176
9.4	3091	1.7	179.9:1	1570	**C413_ 179.9**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
9.0	3231	1.2	188.0:1	1460	**C353_ 188.0**		**P71 + BN71B4**	**N56C**	153...160
8.9	3279	1.6	190.8:1	1570	**C413_ 190.8**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
8.6	3401	2.6	197.9:1	2250	**C513_ 197.9**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	169...176
8.2	3547	1.1	206.4:1	1460	**C353_ 206.4**		**P71 + BN71B4**	**N56C**	153...160
8.1	3593	1.5	209.1:1	1570	**C413_ 209.1**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
7.8	3724	2.4	216.7:1	2250	**C513_ 216.7**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	169...176
7.3	3893	1.0	232.3:1	1460	**C354_ 232.3**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	153...160
6.7	4273	0.9	255.0:1	1460	**C354_ 255.0**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	153...160
6.5	4407	1.2	263.0:1	1570	**C414_ 263.0**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
6.4	4421	2.0	263.8:1	2250	**C514_ 263.8**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	169...176
5.7	4990	1.8	297.8:1	2250	**C514_ 297.8**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	169...176

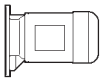
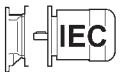
0.5 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
5.2	5465	1.6	326.1:1	2250	**C514_ 326.1**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	169...176
5.1	5587	1.0	333.4:1	1570	**C414_ 333.4**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	161...168
5.0	5659	2.5	337.7:1	3600	**C614_ 337.7**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	177...184
4.6	6202	2.3	370.1:1	3600	**C614_ 370.1**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	177...184
4.5	6361	1.4	379.6:1	2250	**C514_ 379.6**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	169...176
4.2	6860	3.0	409.4:1	5620	**C704_ 409.4**		**P71 + BN71B4**	**N56C**	185...192
4.1	6966	1.3	415.7:1	2250	**C514_ 415.7**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	169...176
4.0	7063	2.0	421.5:1	3600	**C614_ 421.5**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	177...184
3.3	8732	1.6	521.1:1	3600	**C614_ 521.1**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	177...184
3.1	9211	1.0	549.7:1	2250	**C514_ 549.7**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	169...176
3.1	9295	2.2	554.7:1	5620	**C704_ 554.7**		**P71 + BN71B4**	**N56C**	185...192
3.0	9572	1.5	571.2:1	3600	**C614_ 571.2**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	177...184
2.6	11015	1.8	657.3:1	5620	**C704_ 657.3**		**P71 + BN71B4**	**N56C**	185...192
2.5	11207	1.3	668.8:1	3600	**C614_ 668.8**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	177...184
2.1	13340	1.1	796.1:1	3600	**C614_ 796.1**	**S1 + M1SD4**	**P71 + BN71B4**	**N56C**	177...184
1.8	15460	1.3	922.6:1	5620	**C704_ 922.6**		**P71 + BN71B4**	**N56C**	185...192
1.8	15847	2.2	945.7:1	7870	**C804_ 945.7**		**P71 + BN71B4**	**N56C**	193...200
1.5	19572	1.8	1168:1	7870	**C804_ 1168**		**P71 + BN71B4**	**N56C**	193...200
1.1	24817	1.4	1481:1	7870	**C804_ 1481**		**P71 + BN71B4**	**N56C**	193...200
0.94	30248	1.2	1168:1	7870	**C804_ 1168**		**P80 + BN80A6**	**N56C**	193...200
0.89	32113	2.0	1240:1	13490	**C904_ 1240**	**S1 + M1LA6**	**P80 + BN80A6**	**N56C**	201...208

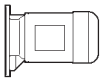
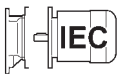
0.75 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
611	74	4.4	2.8:1	280	**C112_ 2.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
462	97	3.8	3.7:1	310	**C112_ 3.7**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
349	129	3.3	4.9:1	340	**C112_ 4.9**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
311	145	1.8	5.5:1	100	**C052_ 5.5**	**S1 + M1LA4**			115...116
276	163	2.9	6.2:1	360	**C112_ 6.2**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
255	176	1.4	6.7:1	100	**C052_ 6.7**	**S1 + M1LA4**			115...116
248	181	2.6	6.9:1	380	**C112_ 6.9**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
231	195	1.4	7.4:1	100	**C052_ 7.4**	**S1 + M1LA4**			115...116
225	200	2.5	7.6:1	390	**C112_ 7.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
188	239	2.3	9.1:1	410	**C112_ 9.1**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
187	241	4.0	6.1:1	640	**C212_ 6.1**	**S2 + M2SA6**	**P80 + BN80B6**	**N140TC**	129...140

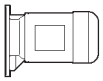
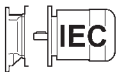
0.75 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]					
169	266	2.1	10.1:1	420	**C112_ 10.1**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
153	294	1.2	11.2:1	110	**C052_ 11.2**	**S1 + M1LA4**			115...116
150	300	1.9	7.6:1	430	**C112_ 7.6**	**S2 + M2SA6**	**P80 + BN80B6**	**N140TC**	117...128
141	318	1.9	12.1:1	430	**C112_ 12.1**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
128	352	1.8	13.4:1	450	**C112_ 13.4**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
120	376	4.0	14.3:1	730	**C212_ 14.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
110	407	1.6	15.5:1	450	**C112_ 15.5**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
108	415	3.7	15.8:1	750	**C212_ 15.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
99	452	1.5	17.2:1	450	**C112_ 17.2**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
95	473	3.5	18.0:1	780	**C212_ 18.0**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
92	489	1.4	18.6:1	450	**C112_ 18.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
86	526	3.2	20.0:1	800	**C212_ 20.0**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
83	542	1.3	20.6:1	450	**C112_ 20.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
78	576	3.1	21.9:1	820	**C212_ 21.9**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
75	599	1.3	22.8:1	450	**C112_ 22.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
70	639	2.8	24.3:1	840	**C212_ 24.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
68	660	4.0	25.1:1	1240	**C312_ 25.1**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	141...152
67	668	1.2	25.4:1	450	**C112_ 25.4**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
64	702	2.5	26.7:1	850	**C212_ 26.7**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
64	705	3.8	26.8:1	1240	**C312_ 26.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	141...152
58	775	1.1	29.5:1	410	**C112_ 29.5**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
58	778	2.3	29.6:1	870	**C212_ 29.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
57	783	3.4	29.8:1	1240	**C312_ 29.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	141...152
53	854	3.1	32.5:1	1240	**C312_ 32.5**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	141...152
52	870	2.0	33.1:1	890	**C212_ 33.1**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
51	878	1.0	33.4:1	350	**C112_ 33.4**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	117...128
47	949	2.8	36.1:1	1240	**C312_ 36.1**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	141...152
46	967	1.8	36.8:1	920	**C212_ 36.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
45	976	4.1	38.1:1	1460	**C353_ 38.1**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
44	1025	1.5	39.0:1	920	**C212_ 39.0**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
42	1070	2.5	40.7:1	1240	**C312_ 40.7**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	141...152
39	1138	1.5	43.3:1	940	**C212_ 43.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
39	1125	3.5	43.9:1	1460	**C353_ 43.9**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
38	1178	3.8	44.8:1	1570	**C412_ 44.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
36	1241	2.1	47.2:1	1240	**C312_ 47.2**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	141...152
35	1235	3.2	48.2:1	1460	**C353_ 48.2**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
34	1305	1.4	33.1:1	960	**C212_ 33.1**	**S2 + M2SA6**	**P80 + BN80B6**	**N140TC**	129...140
33	1320	4.0	51.5:1	1570	**C413_ 51.5**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
33	1377	1.9	52.4:1	1240	**C312_ 52.4**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	141...152
30	1448	2.8	56.5:1	1460	**C353_ 56.5**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
29.1	1504	3.5	58.7:1	1570	**C413_ 58.7**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168

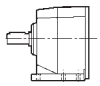
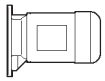
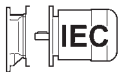
0.75 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
29.1	1507	1.1	58.8:1	990	**C213_ 58.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	129...140
28.0	1605	1.7	40.7:1	1240	**C312_ 40.7**	**S2 + M2SA6**	**P80 + BN80B6**	**N140TC**	141...152
27.6	1589	2.5	62.0:1	1460	**C353_ 62.0**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
26.6	1648	3.2	64.3:1	1570	**C413_ 64.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
24.2	1812	2.2	70.7:1	1460	**C353_ 70.7**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
24.2	1861	1.4	47.2:1	1240	**C312_ 47.2**	**S2 + M2SA6**	**P80 + BN80B6**	**N140TC**	141...152
23.0	1904	1.4	74.3:1	1240	**C313_ 74.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	141...152
23.0	1906	2.8	74.4:1	1570	**C413_ 74.4**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
22.0	1988	2.0	77.6:1	1460	**C353_ 77.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
21.8	2066	1.3	52.4:1	1240	**C312_ 52.4**	**S2 + M2SA6**	**P80 + BN80B6**	**N140TC**	141...152
21.0	2088	2.5	81.5:1	1570	**C413_ 81.5**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
20.7	2117	1.3	82.6:1	1240	**C313_ 82.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	141...152
20.4	2147	1.9	83.8:1	1460	**C353_ 83.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
18.6	2355	1.7	91.9:1	1460	**C353_ 91.9**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
18.4	2383	3.7	93.0:1	2250	**C513_ 93.0**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
18.4	2383	1.1	93.0:1	1240	**C313_ 93.0**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	141...152
18.3	2391	2.2	93.3:1	1570	**C413_ 93.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
16.8	2603	1.5	101.6:1	1460	**C353_ 101.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
16.8	2609	3.4	101.8:1	2250	**C513_ 101.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
16.7	2621	2.0	102.3:1	1570	**C413_ 102.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
15.5	2821	1.9	110.1:1	1570	**C413_ 110.1**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
15.3	2857	1.4	111.5:1	1460	**C353_ 111.5**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
15.1	2911	3.0	113.6:1	2250	**C513_ 113.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
14.2	3090	1.7	120.6:1	1570	**C413_ 120.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
13.7	3188	2.8	124.4:1	2250	**C513_ 124.4**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
13.4	3262	1.2	127.3:1	1460	**C353_ 127.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
12.9	3406	1.6	132.9:1	1570	**C413_ 132.9**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
12.7	3449	2.6	134.6:1	2250	**C513_ 134.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
12.2	3582	1.1	139.8:1	1460	**C353_ 139.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	153...160
12.2	3600	3.9	140.5:1	3600	**C613_ 140.5**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184
11.7	3731	1.4	145.6:1	1570	**C413_ 145.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
11.6	3777	2.3	147.4:1	2250	**C513_ 147.4**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
11.4	3844	3.7	150.0:1	3600	**C613_ 150.0**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184
10.7	4113	2.2	160.5:1	2250	**C513_ 160.5**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
10.4	4205	1.3	164.1:1	1570	**C413_ 164.1**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
10.4	4215	3.4	164.5:1	3600	**C613_ 164.5**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184
9.7	4505	2.0	175.8:1	2250	**C513_ 175.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
9.6	4577	3.1	178.6:1	3600	**C613_ 178.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184
9.5	4610	1.2	179.9:1	1570	**C413_ 179.9**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	161...168
8.8	4974	4.1	194.1:1	5620	**C703_ 194.1**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	185...192
8.7	5017	2.8	195.8:1	3600	**C613_ 195.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184

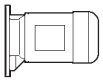
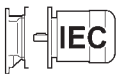
0.75 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
8.6	5071	1.7	197.9:1	2250	**C513_ 197.9**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
7.9	5553	1.6	216.7:1	2250	**C513_ 216.7**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
7.9	5433	2.6	217.4:1	3600	**C614_ 217.4**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184
7.7	5660	3.5	220.9:1	5620	**C703_ 220.9**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	185...192
7.2	5955	2.4	238.3:1	3600	**C614_ 238.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184
7.1	6132	3.3	239.3:1	5620	**C703_ 239.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	185...192
7.1	6020	1.5	240.9:1	2250	**C514_ 240.9**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
6.5	6592	1.3	263.8:1	2250	**C514_ 263.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
6.3	6802	3.0	272.2:1	5620	**C704_ 272.2**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	185...192
6.2	6879	2.1	275.3:1	3600	**C614_ 275.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184
5.7	7442	1.2	297.8:1	2250	**C514_ 297.8**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
5.2	8149	1.1	326.1:1	2250	**C514_ 326.1**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
5.1	8439	1.7	337.7:1	3600	**C614_ 337.7**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184
5.0	8604	2.4	344.3:1	5620	**C704_ 344.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	185...192
4.7	9113	3.9	364.7:1	7870	**C804_ 364.7**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	193...200
4.6	9248	1.5	370.1:1	3600	**C614_ 370.1**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184
4.5	9486	0.9	379.6:1	2250	**C514_ 379.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	169...176
4.1	10533	1.3	421.5:1	3600	**C614_ 421.5**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184
3.9	11083	1.8	443.5:1	5620	**C704_ 443.5**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	185...192
3.8	11380	3.1	455.4:1	7870	**C804_ 455.4**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	193...200
3.7	11545	1.2	462.0:1	3600	**C614_ 462.0**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184
3.2	13227	2.7	529.3:1	7870	**C804_ 529.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	193...200
3.1	13861	1.5	554.7:1	5620	**C704_ 554.7**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	185...192
3.0	14274	1.0	571.2:1	3600	**C614_ 571.2**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	177...184
2.6	16425	1.2	657.3:1	5620	**C704_ 657.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	185...192
2.6	16600	2.1	664.3:1	7870	**C804_ 664.3**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	193...200
2.4	18109	2.0	724.7:1	7870	**C804_ 724.7**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	193...200
2.3	18392	1.1	736.0:1	5620	**C704_ 736.0**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	185...192
2.0	21091	3.0	844.0:1	14610	**C904_ 844.0**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	201...208
2.0	21355	1.7	854.6:1	7870	**C804_ 854.6**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	193...200
1.7	25139	2.5	1006:1	13490	**C904_ 1006**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	201...208
1.7	25789	1.4	1032:1	7870	**C804_ 1032**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	193...200
1.4	30986	2.1	1240:1	13490	**C904_ 1240**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	201...208
1.3	31836	1.1	1274:1	7870	**C804_ 1274**	**S1 + M1LA4**	**P80 + BN80A4**	**N56C**	193...200
1.2	34571	1.8	922.3:1	13490	**C904_ 922.3**	**S2 + M2SA6**	**P80 + BN80B6**	**N140TC**	201...208
1.1	40519	2.6	1081:1	19110	**C1004_ 1081**	**S2 + M2SA6**	**P80 + BN80B6**	**N140TC**	209...216
0.92	46479	1.4	1240:1	13490	**C904_ 1240**	**S2 + M2SA6**	**P80 + BN80B6**	**N140TC**	201...208

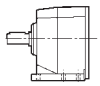
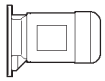
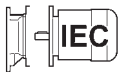
1 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
614	98	3.4	2.8:1	280	**C112_ 2.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
465	129	2.9	3.7:1	300	**C112_ 3.7**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
407	147	2.6	2.8:1	310	**C112_ 2.8**	**S2 + M2SB6**	**P90 + BN90S6**	**N140TC**	117...128
351	171	2.5	4.9:1	320	**C112_ 4.9**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
277	216	2.2	6.2:1	340	**C112_ 6.2**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
249	240	2.0	6.9:1	360	**C112_ 6.9**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
226	265	1.9	7.6:1	370	**C112_ 7.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
198	303	4.1	8.7:1	620	**C212_ 8.7**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
189	317	1.7	9.1:1	390	**C112_ 9.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
179	335	3.8	9.6:1	640	**C212_ 9.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
170	352	1.6	10.1:1	400	**C112_ 10.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
154	390	3.5	11.2:1	660	**C212_ 11.2**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
142	422	1.4	12.1:1	410	**C112_ 12.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
139	432	3.3	12.4:1	680	**C212_ 12.4**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
128	467	1.3	13.4:1	420	**C112_ 13.4**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
120	498	3.0	14.3:1	700	**C212_ 14.3**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
111	540	1.2	15.5:1	410	**C112_ 15.5**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
109	551	2.8	15.8:1	720	**C212_ 15.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
100	599	1.1	17.2:1	390	**C112_ 17.2**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
96	627	2.6	18.0:1	740	**C212_ 18.0**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
95	631	4.0	18.1:1	1120	**C312_ 18.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	141...152
92	648	1.1	18.6:1	360	**C112_ 18.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
86	697	2.4	20.0:1	760	**C212_ 20.0**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
86	700	3.7	20.1:1	1160	**C312_ 20.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	141...152
83	718	1.0	20.6:1	330	**C112_ 20.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	117...128
79	763	2.3	21.9:1	770	**C212_ 21.9**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
76	788	3.4	22.6:1	1190	**C312_ 22.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	141...152
71	847	2.1	24.3:1	790	**C212_ 24.3**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
69	875	3.0	25.1:1	1230	**C312_ 25.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	141...152
64	930	1.9	26.7:1	800	**C212_ 26.7**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
64	934	2.8	26.8:1	1240	**C312_ 26.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	141...152
60	975	4.1	28.7:1	1460	**C353_ 28.7**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	153...160
58	1031	1.7	29.6:1	820	**C212_ 29.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
58	1038	2.6	29.8:1	1240	**C312_ 29.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	141...152
53	1133	2.3	32.5:1	1240	**C312_ 32.5**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	141...152
52	1153	1.5	33.1:1	830	**C212_ 33.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
48	1258	2.1	36.1:1	1240	**C312_ 36.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	141...152
47	1282	1.4	36.8:1	840	**C212_ 36.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
46	1293	3.4	37.1:1	1570	**C412_ 37.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
45	1294	3.1	38.1:1	1460	**C353_ 38.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	153...160
43	1369	3.9	40.3:1	1570	**C413_ 40.3**	**S2 + M2SA4**	**P80 + BN80B4**		161...168

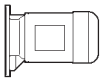
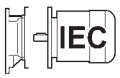
1 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
42	1418	1.9	40.7:1	1240	**C312_ 40.7**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	141...152
40	1509	1.1	43.3:1	860	**C212_ 43.3**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	129...140
38	1561	2.8	44.8:1	1570	**C412_ 44.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
38	1579	1.7	45.3:1	1240	**C312_ 45.3**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	141...152
37	1596	3.3	47.0:1	1570	**C413_ 47.0**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
36	1645	1.6	47.2:1	1240	**C312_ 47.2**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	141...152
36	1666	4.3	47.8:1	2250	**C512_ 47.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
36	1637	2.4	48.2:1	1460	**C353_ 48.2**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	153...160
33	1791	3.5	51.4:1	2250	**C512_ 51.4**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
33	1749	3.0	51.5:1	1570	**C413_ 51.5**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
33	1826	1.5	52.4:1	1240	**C312_ 52.4**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	141...152
30	1919	2.1	56.5:1	1460	**C353_ 56.5**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	153...160
30	1986	3.5	57.0:1	2250	**C512_ 57.0**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
29.3	1994	2.7	58.7:1	1570	**C413_ 58.7**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
28.0	2140	1.2	40.7:1	1240	**C312_ 40.7**	**S2 + M2SB6**	**P90 + BN90S6**	**N140TC**	141...152
27.7	2106	1.9	62.0:1	1460	**C353_ 62.0**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	153...160
26.7	2184	2.4	64.3:1	1570	**C413_ 64.3**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
26.6	2194	4.0	64.6:1	2250	**C513_ 64.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
24.3	2402	1.7	70.7:1	1460	**C353_ 70.7**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	153...160
23.6	2476	3.6	72.9:1	2250	**C513_ 72.9**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
23.1	2527	2.1	74.4:1	1570	**C413_ 74.4**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
22.2	2636	1.5	77.6:1	1460	**C353_ 77.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	153...160
21.5	2714	3.3	79.9:1	2250	**C513_ 79.9**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
21.1	2768	1.9	81.5:1	1570	**C413_ 81.5**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
20.5	2846	1.4	83.8:1	1460	**C353_ 83.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	153...160
18.7	3122	1.3	91.9:1	1460	**C353_ 91.9**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	153...160
18.5	3159	2.8	93.0:1	2250	**C513_ 93.0**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
18.4	3169	1.7	93.3:1	1570	**C413_ 93.3**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
16.9	3451	1.2	101.6:1	1460	**C353_ 101.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	153...160
16.9	3458	2.6	101.8:1	2250	**C513_ 101.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
16.8	3475	1.5	102.3:1	1570	**C413_ 102.3**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
16.6	3519	4.0	103.6:1	3600	**C613_ 103.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
15.6	3740	1.4	110.1:1	1570	**C413_ 110.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
15.1	3859	3.7	113.6:1	3600	**C613_ 113.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
15.1	3859	2.3	113.6:1	2250	**C513_ 113.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
14.3	4096	1.3	120.6:1	1570	**C413_ 120.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
13.8	4226	2.1	124.4:1	2250	**C513_ 124.4**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
13.4	4351	3.3	128.1:1	3600	**C613_ 128.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
12.9	4514	1.2	132.9:1	1570	**C413_ 132.9**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	161...168
12.8	4572	1.9	134.6:1	2250	**C513_ 134.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
12.5	4667	4.4	137.4:1	5620	**C703_ 137.4**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	185...192

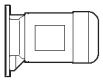
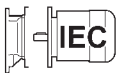
1 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
12.2	4772	3.0	140.5:1	3600	**C613_ 140.5**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
11.7	5007	1.8	147.4:1	2250	**C513_ 147.4**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
11.5	5095	2.8	150.0:1	3600	**C613_ 150.0**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
10.7	5452	1.6	160.5:1	2250	**C513_ 160.5**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
10.6	5530	3.7	162.8:1	5620	**C703_ 162.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	185...192
10.5	5588	2.5	164.5:1	3600	**C613_ 164.5**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
9.8	5971	1.5	175.8:1	2250	**C513_ 175.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
9.6	6067	2.3	178.6:1	3600	**C613_ 178.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
8.9	6593	3.1	194.1:1	5620	**C703_ 194.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	185...192
8.8	6651	2.1	195.8:1	3600	**C613_ 195.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
8.7	6722	1.3	197.9:1	2250	**C513_ 197.9**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
7.9	7361	1.2	216.7:1	2250	**C513_ 216.7**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
7.9	7201	2.0	217.4:1	3600	**C614_ 217.4**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
7.8	7503	2.7	220.9:1	5620	**C703_ 220.9**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	185...192
7.2	8128	2.5	239.3:1	5620	**C703_ 239.3**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	185...192
7.1	7980	1.1	240.9:1	2250	**C514_ 240.9**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
6.9	8431	1.7	164.5:1	3600	**C613_ 164.5**	**S2 + M2SB6**	**P90 + BN90S6**	**N140TC**	177...184
6.5	8738	1.0	263.8:1	2250	**C514_ 263.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	169...176
6.4	9153	1.5	178.6:1	3600	**C613_ 178.6**	**S2 + M2SB6**	**P90 + BN90S6**	**N140TC**	177...184
6.3	9017	2.3	272.2:1	5620	**C704_ 272.2**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	185...192
6.2	9119	1.6	275.3:1	3600	**C614_ 275.3**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
5.8	10035	1.4	195.8:1	3600	**C613_ 195.8**	**S2 + M2SB6**	**P90 + BN90S6**	**N140TC**	177...184
5.7	9994	1.4	301.7:1	3600	**C614_ 301.7**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
5.4	10530	1.9	317.9:1	5620	**C704_ 317.9**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	185...192
5.3	11065	3.2	215.9:1	7870	**C803_ 215.9**	**S2 + M2SB6**	**P90 + BN90S6**		193...200
5.1	11186	1.3	337.7:1	3600	**C614_ 337.7**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
4.8	12264	1.7	239.3:1	5620	**C703_ 239.3**	**S2 + M2SB6**	**P90 + BN90S6**	**N140TC**	185...192
4.6	12259	1.2	370.1:1	3600	**C614_ 370.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
4.2	13561	1.5	409.4:1	5620	**C704_ 409.4**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	185...192
4.1	13962	1.0	421.5:1	3600	**C614_ 421.5**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	177...184
3.9	14691	1.4	443.5:1	5620	**C704_ 443.5**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	185...192
3.8	15085	2.3	455.4:1	7870	**C804_ 455.4**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	193...200
3.8	15141	4.2	457.1:1	13490	**C904_ 457.1**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	201...208
3.2	17533	2.0	529.3:1	7870	**C804_ 529.3**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	193...200
3.2	17695	3.6	534.2:1	13490	**C904_ 534.2**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	201...208
2.6	21624	2.9	652.8:1	13490	**C904_ 652.8**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	201...208
2.6	22005	1.6	664.3:1	7870	**C804_ 664.3**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	193...200
2.2	25625	2.5	773.6:1	13490	**C904_ 773.6**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	201...208
2.2	25950	1.4	783.4:1	7870	**C804_ 783.4**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	193...200
1.9	30551	2.1	922.3:1	13490	**C904_ 922.3**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	201...208
1.8	31326	1.1	945.7:1	7870	**C804_ 945.7**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	193...200

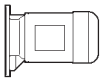
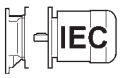
1 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
1.4	41075	1.6	1240:1	7870	**C904_ 1240**	**S2 + M2SA4**	**P80 + BN80B4**	**N56C**	201...208
1.1	50278	1.3	1006:1	13490	**C904_ 1006**	**S2 + M2SB6**	**P90 + BN90S6**	**N140TC**	201...208
1.1	54026	2.0	1081:1	19110	**C1004_ 1081**	**S2 + M2SB6**	**P90 + BN90S6**	**N140TC**	209...216

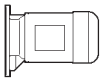
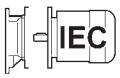
1.5 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
614	146	2.2	2.8:1	270	**C112_ 2.8**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	117...128
465	193	4.1	3.7:1	470	**C212_ 3.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
465	193	1.9	3.7:1	290	**C112_ 3.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	117...128
422	213	3.9	2.7:1	490	**C212_ 2.7**	**S3 + M3SA6**	**P90 + BN90L6**	**N180TC**	129...140
407	221	1.7	2.8:1	300	**C112_ 2.8**	**S3 + M3SA6**	**P90 + BN90L6**	**N180TC**	117...128
358	251	3.5	4.8:1	500	**C212_ 4.8**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
351	256	1.7	4.9:1	310	**C112_ 4.9**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	117...128
308	292	1.5	3.7:1	300	**C112_ 3.7**	**S3 + M3SA6**	**P90 + BN90L6**	**N180TC**	117...128
282	319	2.9	6.1:1	540	**C212_ 6.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
277	324	1.4	6.2:1	270	**C112_ 6.2**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	117...128
273	329	4.2	6.3:1	800	**C312_ 6.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
269	335	3.3	6.4:1	550	**C212_ 6.4**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
249	361	1.3	6.9:1	340	**C112_ 6.9**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	117...128
242	371	3.1	7.1:1	560	**C212_ 7.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
226	397	1.2	7.6:1	350	**C112_ 7.6**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	117...128
198	455	2.7	8.7:1	590	**C212_ 8.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
189	476	1.1	9.1:1	330	**C112_ 9.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	117...128
185	486	4.0	9.3:1	910	**C312_ 9.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
179	502	2.6	9.6:1	610	**C212_ 9.6**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
170	528	1.1	10.1:1	320	**C112_ 10.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	117...128
155	580	3.7	11.1:1	950	**C312_ 11.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
154	585	2.3	11.2:1	620	**C212_ 11.2**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
140	643	3.4	12.3:1	980	**C312_ 12.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
139	648	2.2	12.4:1	640	**C212_ 12.4**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
123	732	3.1	14.0:1	1010	**C312_ 14.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
120	747	2.0	14.3:1	650	**C212_ 14.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
110	815	2.9	15.6:1	1040	**C312_ 15.6**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
109	826	1.9	15.8:1	670	**C212_ 15.8**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
101	894	3.8	17.1:1	1220	**C352_ 17.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	153...160
96	941	1.7	18.0:1	680	**C212_ 18.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140

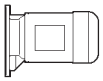
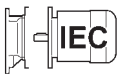
1.5 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
95	946	2.7	18.1:1	1080	**C312_ 18.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
91	993	3.4	19.0:1	1250	**C352_ 19.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	153...160
86	1045	1.6	20.0:1	690	**C212_ 20.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
86	1051	2.5	20.1:1	1110	**C312_ 20.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
79	1145	1.5	21.9:1	700	**C212_ 21.9**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
76	1181	3.7	22.6:1	1530	**C412_ 22.6**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
76	1181	2.2	22.6:1	1140	**C312_ 22.6**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
71	1270	1.4	24.3:1	710	**C212_ 24.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
69	1312	2.0	25.1:1	1160	**C312_ 25.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
64	1396	1.3	26.7:1	710	**C212_ 26.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
64	1401	1.9	26.8:1	1180	**C312_ 26.8**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
61	1479	3.0	28.3:1	1570	**C412_ 28.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
60	1452	3.4	28.5:1	1570	**C413_ 28.5**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
60	1462	2.7	28.7:1	1390	**C353_ 28.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	153...160
58	1547	1.1	29.6:1	720	**C212_ 29.6**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	129...140
58	1558	1.7	29.8:1	1210	**C312_ 29.8**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
55	1590	3.2	31.2:1	1570	**C413_ 31.2**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
55	1641	2.7	31.4:1	1570	**C412_ 31.4**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
53	1699	1.6	32.5:1	1220	**C312_ 32.5**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
51	1746	2.5	33.4:1	1570	**C412_ 33.4**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
50	1768	2.3	34.7:1	1450	**C353_ 34.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	153...160
48	1887	1.4	36.1:1	1240	**C312_ 36.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
47	1875	2.8	36.8:1	1570	**C413_ 36.8**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
46	1939	2.3	37.1:1	1570	**C412_ 37.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
45	1941	2.1	38.1:1	1460	**C353_ 38.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	153...160
43	2053	2.6	40.3:1	1570	**C413_ 40.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
43	2112	3.3	40.4:1	2250	**C512_ 40.4**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
42	2127	1.2	40.7:1	1240	**C312_ 40.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
40	2253	3.0	43.1:1	2250	**C512_ 43.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
39	2237	1.8	43.9:1	1460	**C353_ 43.9**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	153...160
38	2342	1.9	44.8:1	1570	**C412_ 44.8**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
38	2368	1.1	45.3:1	1240	**C312_ 45.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	141...152
37	2379	3.7	46.7:1	2250	**C513_ 46.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
37	2395	2.2	47.0:1	1570	**C413_ 47.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
36	2499	2.8	47.8:1	2250	**C512_ 47.8**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
36	2456	1.6	48.2:1	1460	**C353_ 48.2**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	153...160
34	2609	3.4	51.2:1	2250	**C513_ 51.2**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
33	2687	2.3	51.4:1	2250	**C512_ 51.4**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
33	2624	2.0	51.5:1	1570	**C413_ 51.5**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
30	2879	1.4	56.5:1	1460	**C353_ 56.5**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	153...160
30	2979	2.3	57.0:1	2250	**C512_ 57.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176

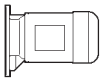
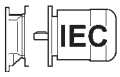
1.5 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
29.3	2991	1.8	58.7:1	1570	**C413_ 58.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
29.2	3006	2.9	59.0:1	2250	**C513_ 59.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
27.7	3159	1.3	62.0:1	1460	**C353_ 62.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	153...160
26.7	3276	1.6	64.3:1	1570	**C413_ 64.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
26.6	3291	2.7	64.6:1	2250	**C513_ 64.6**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
25.4	3449	4.1	67.7:1	3600	**C613_ 67.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
24.3	3602	1.1	70.7:1	1460	**C353_ 70.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	153...160
23.6	3714	2.4	72.9:1	2250	**C513_ 72.9**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
23.2	3781	3.7	74.2:1	3600	**C613_ 74.2**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
23.1	3791	1.4	74.4:1	1570	**C413_ 74.4**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
21.5	4071	2.2	79.9:1	2250	**C513_ 79.9**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
21.1	4153	1.3	81.5:1	1570	**C413_ 81.5**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
20.7	4229	3.3	83.0:1	3600	**C613_ 83.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
18.9	4637	3.1	91.0:1	3600	**C613_ 91.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
18.5	4738	1.9	93.0:1	2250	**C513_ 93.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
18.4	4754	1.1	93.3:1	1570	**C413_ 93.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	161...168
16.9	5187	1.7	101.8:1	2250	**C513_ 101.8**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
16.6	5279	2.7	103.6:1	3600	**C613_ 103.6**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
15.3	5727	3.6	112.4:1	5620	**C703_ 112.4**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	185...192
15.1	5788	2.4	113.6:1	3600	**C613_ 113.6**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
15.1	5788	1.5	113.6:1	2250	**C513_ 113.6**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
13.8	6338	1.4	124.4:1	2250	**C513_ 124.4**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
13.6	6461	3.2	126.8:1	5620	**C703_ 126.8**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	185...192
13.4	6527	2.2	128.1:1	3600	**C613_ 128.1**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
12.8	6858	1.3	134.6:1	2250	**C513_ 134.6**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
12.2	7159	2.0	140.5:1	3600	**C613_ 140.5**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
11.7	7510	1.2	147.4:1	2250	**C513_ 147.4**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	169...176
11.5	7643	1.9	150.0:1	3600	**C613_ 150.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
11.4	7658	2.7	150.3:1	5620	**C703_ 150.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	185...192
10.5	8381	1.7	164.5:1	3600	**C613_ 164.5**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
9.6	9100	1.6	178.6:1	3600	**C613_ 178.6**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
9.6	9130	2.2	179.2:1	5620	**C703_ 179.2**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	185...192
8.8	9976	1.4	195.8:1	3600	**C613_ 195.8**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
7.8	11255	1.8	220.9:1	5620	**C703_ 220.9**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	185...192
7.6	11531	1.2	150.0:1	3600	**C613_ 150.0**	**S3 + M3SA6**	**P90 + BN90L6**	**N180TC**	177...184
6.9	12646	1.1	164.5:1	3600	**C613_ 164.5**	**S3 + M3SA6**	**P90 + BN90L6**	**N180TC**	177...184
6.8	12486	1.6	251.3:1	5620	**C704_ 251.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	185...192
6.3	13525	1.5	272.2:1	5620	**C704_ 272.2**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	185...192
6.2	13679	1.0	275.3:1	3600	**C614_ 275.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184
6.0	14196	2.5	285.7:1	7870	**C804_ 285.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	193...200
5.7	14991	0.9	301.7:1	3600	**C614_ 301.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	177...184

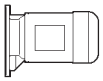
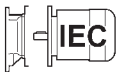
1.5 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
5.4	15796	1.3	317.9:1	5620	**C704_ 317.9**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	185...192
5.1	16610	2.1	334.3:1	7870	**C804_ 334.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	193...200
5.0	17107	1.2	344.3:1	5620	**C704_ 344.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	185...192
4.7	18121	2.0	364.7:1	7870	**C804_ 364.7**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	193...200
4.1	20744	1.7	417.5:1	7870	**C804_ 417.5**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	193...200
4.1	20819	3.1	419.0:1	13490	**C904_ 419.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	201...208
3.2	26299	1.3	529.3:1	7870	**C804_ 529.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	193...200
3.2	26543	2.4	534.2:1	13490	**C904_ 534.2**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	201...208
2.7	31174	3.4	627.4:1	19110	**C1004_ 627.4**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	209...216
2.6	32436	2.0	652.8:1	13490	**C904_ 652.8**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	201...208
2.0	41901	2.5	843.3:1	19110	**C1004_ 843.3**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	209...216
2.0	41936	1.5	844.0:1	13490	**C904_ 844.0**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	201...208
1.7	49886	2.1	1004:1	19110	**C1004_ 1004**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	209...216
1.7	49985	1.3	1006:1	13490	**C904_ 1006**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	201...208
1.6	53712	2.0	1081:1	19110	**C1004_ 1081**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	209...216
1.5	56494	1.1	1137:1	13490	**C904_ 1137**	**S2 + M2SB4**	**P90 + BN90S4**	**N140TC**	201...208
1.3	68085	1.6	908.2:1	19110	**C1004_ 908.2**	**S3 + M3SA6**	**P90 + BN90L6**	**N180TC**	209...216
1.1	81039	1.3	1081:1	19110	**C1004_ 1081**	**S3 + M3SA6**	**P90 + BN90L6**	**N180TC**	209...216

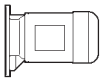
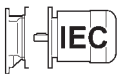
2 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
637	188	3.8	2.7:1	420	**C212_ 2.7**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
614	195	1.7	2.8:1	260	**C112_ 2.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	117...128
465	258	3.1	3.7:1	450	**C212_ 3.7**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
465	258	1.4	3.7:1	250	**C112_ 3.7**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	117...128
422	284	3.0	2.7:1	460	**C212_ 2.7**	**S3 + M3LA6**	**P100 + BN100LA6**	**N180TC**	129...140
407	294	1.3	2.8:1	230	**C112_ 2.8**	**S3 + M3LA6**	**P100 + BN100LA6**	**N180TC**	117...128
358	335	2.6	4.8:1	480	**C212_ 4.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
351	342	1.2	4.9:1	190	**C112_ 4.9**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	117...128
344	348	3.9	5.0:1	730	**C312_ 5.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
308	389	2.4	3.7:1	500	**C212_ 3.7**	**S3 + M3LA6**	**P100 + BN100LA6**	**N180TC**	129...140
282	425	2.2	6.1:1	510	**C212_ 6.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
273	439	3.1	6.3:1	780	**C312_ 6.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
269	446	2.5	6.4:1	520	**C212_ 6.4**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
265	453	3.8	6.5:1	800	**C312_ 6.5**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
249	481	1.0	6.9:1	240	**C112_ 6.9**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	117...128

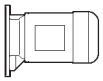
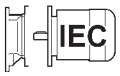
2 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
248	484	3.7	4.6:1	910	**C352_ 4.6**	**S3 + M3LA6**	**P100 + BN100LA6**	**N180TC**	153...160
242	495	2.3	7.1:1	540	**C212_ 7.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
239	502	3.5	7.2:1	820	**C312_ 7.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
228	526	2.7	5.0:1	810	**C312_ 5.0**	**S3 + M3LA6**	**P100 + BN100LA6**	**N180TC**	141...152
205	585	3.3	8.4:1	850	**C312_ 8.4**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
198	606	2.0	8.7:1	560	**C212_ 8.7**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
185	648	3.0	9.3:1	880	**C312_ 9.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
179	669	1.9	9.6:1	570	**C212_ 9.6**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
155	774	2.7	11.1:1	920	**C312_ 11.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
154	781	1.8	11.2:1	580	**C212_ 11.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
147	815	4.1	11.7:1	1070	**C352_ 11.7**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160
140	857	2.5	12.3:1	940	**C312_ 12.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
139	864	1.6	12.4:1	590	**C212_ 12.4**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
129	927	3.6	13.3:1	1100	**C352_ 13.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160
123	976	2.4	14.0:1	970	**C312_ 14.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
121	990	4.0	14.2:1	1310	**C412_ 14.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
120	997	1.5	14.3:1	600	**C212_ 14.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
116	1031	3.3	14.8:1	1130	**C352_ 14.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160
110	1087	2.2	15.6:1	990	**C312_ 15.6**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
109	1101	3.6	15.8:1	1350	**C412_ 15.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
109	1101	1.4	15.8:1	610	**C212_ 15.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
101	1192	2.8	17.1:1	1170	**C352_ 17.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160
97	1241	3.4	17.8:1	1390	**C412_ 17.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
96	1254	1.3	18.0:1	610	**C212_ 18.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
95	1261	2.0	18.1:1	1020	**C312_ 18.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
91	1324	2.5	19.0:1	1200	**C352_ 19.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160
87	1380	3.1	19.8:1	1420	**C412_ 19.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
86	1394	1.2	20.0:1	620	**C212_ 20.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
86	1401	1.9	20.1:1	1050	**C312_ 20.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
85	1372	2.5	20.2:1	1220	**C353_ 20.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160
79	1526	1.2	21.9:1	580	**C212_ 21.9**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	129...140
78	1501	2.5	22.1:1	1240	**C353_ 22.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160
76	1575	2.8	22.6:1	1460	**C412_ 22.6**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
76	1575	1.7	22.6:1	1070	**C312_ 22.6**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
69	1742	2.5	25.0:1	1500	**C412_ 25.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
69	1749	1.5	25.1:1	1090	**C312_ 25.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
66	1805	3.9	25.9:1	2250	**C512_ 25.9**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
66	1780	2.2	26.2:1	1280	**C353_ 26.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160
64	1868	1.4	26.8:1	1100	**C312_ 26.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
61	1972	2.2	28.3:1	1540	**C412_ 28.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
60	1950	2.0	28.7:1	1310	**C353_ 28.7**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160

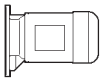
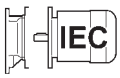
2 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
58	2077	3.4	29.8:1	2250	**C512_ 29.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
58	2077	1.3	29.8:1	1120	**C312_ 29.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
55	2120	2.4	31.2:1	1570	**C413_ 31.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
55	2188	2.0	31.4:1	1570	**C412_ 31.4**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
53	2265	1.2	32.5:1	1120	**C312_ 32.5**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	141...152
52	2300	3.1	33.0:1	2250	**C512_ 33.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
51	2328	1.9	33.4:1	1570	**C412_ 33.4**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
50	2357	1.7	34.7:1	1350	**C353_ 34.7**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160
47	2537	2.8	36.4:1	2250	**C512_ 36.4**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
47	2500	2.1	36.8:1	1570	**C413_ 36.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
46	2586	1.7	37.1:1	1570	**C412_ 37.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
45	2588	1.5	38.1:1	1370	**C353_ 38.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160
43	2738	1.9	40.3:1	1570	**C413_ 40.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
43	2816	2.5	40.4:1	2250	**C512_ 40.4**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
42	2751	3.2	40.5:1	2250	**C513_ 40.5**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
40	3004	2.3	43.1:1	2250	**C512_ 43.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
39	2982	1.3	43.9:1	1390	**C353_ 43.9**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160
38	3122	1.4	44.8:1	1570	**C412_ 44.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
37	3173	2.8	46.7:1	2250	**C513_ 46.7**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
37	3193	1.7	47.0:1	1570	**C413_ 47.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
36	3331	2.1	47.8:1	2250	**C512_ 47.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
36	3274	1.2	48.2:1	1410	**C353_ 48.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	153...160
34	3478	2.5	51.2:1	2250	**C513_ 51.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
33	3582	1.7	51.4:1	2250	**C512_ 51.4**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
33	3499	1.5	51.5:1	1570	**C413_ 51.5**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
32	3635	3.9	53.5:1	3600	**C613_ 53.5**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
30	3973	1.7	57.0:1	2250	**C512_ 57.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
29.4	3981	3.6	58.6:1	3600	**C613_ 58.6**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
29.3	3988	1.3	58.7:1	1570	**C413_ 58.7**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
29.2	4008	2.2	59.0:1	2250	**C513_ 59.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
26.7	4368	1.2	64.3:1	1570	**C413_ 64.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	161...168
26.6	4389	2.0	64.6:1	2250	**C513_ 64.6**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
26.5	4532	1.6	43.1:1	2250	**C512_ 43.1**	**S3 + M3LA6**	**P100 + BN100LA6**	**N180TC**	169...176
25.4	4599	3.1	67.7:1	3600	**C613_ 67.7**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
24.1	4844	4.2	71.3:1	5620	**C703_ 71.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	185...192
23.8	5026	1.4	47.8:1	2250	**C512_ 47.8**	**S3 + M3LA6**	**P100 + BN100LA6**	**N180TC**	169...176
23.6	4952	1.8	72.9:1	2250	**C513_ 72.9**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
23.2	5041	2.8	74.2:1	3600	**C613_ 74.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
22.2	5405	1.2	51.4:1	2250	**C512_ 51.4**	**S3 + M3LA6**	**P100 + BN100LA6**	**N180TC**	169...176
21.5	5428	1.6	79.9:1	2250	**C513_ 79.9**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
21.1	5530	3.7	81.4:1	5620	**C703_ 81.4**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	185...192

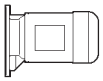
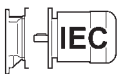
2 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
20.7	5639	2.5	83.0:1	3600	**C613_ 83.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
20.0	5994	1.2	57.0:1	2250	**C512_ 57.0**	**S3 + M3LA6**	**P100 + BN100LA6**	**N180TC**	169...176
19.5	5992	3.4	88.2:1	5620	**C703_ 88.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	185...192
18.9	6182	2.3	91.0:1	3600	**C613_ 91.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
18.5	6318	1.4	93.0:1	2250	**C513_ 93.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
16.9	6916	1.3	101.8:1	2250	**C513_ 101.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
16.6	7038	2.0	103.6:1	3600	**C613_ 103.6**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
16.6	7052	2.9	103.8:1	5620	**C703_ 103.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	185...192
15.1	7717	1.8	113.6:1	3600	**C613_ 113.6**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
15.1	7717	1.1	113.6:1	2250	**C513_ 113.6**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	169...176
13.6	8614	2.4	126.8:1	5620	**C703_ 126.8**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	185...192
13.4	8702	1.6	128.1:1	3600	**C613_ 128.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
12.6	9287	3.8	136.7:1	7870	**C803_ 136.7**	**S3 + M3SA4**	**P90 + BN90LA4**		193...200
12.5	9334	2.2	137.4:1	5620	**C703_ 137.4**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	185...192
12.2	9545	1.5	140.5:1	3600	**C613_ 140.5**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
11.5	10129	3.5	149.1:1	7870	**C803_ 149.1**	**S3 + M3SA4**	**P90 + BN90LA4**		193...200
11.5	10190	1.4	150.0:1	3600	**C613_ 150.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
11.4	10211	2.0	150.3:1	5620	**C703_ 150.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	185...192
10.5	11175	1.3	164.5:1	3600	**C613_ 164.5**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
10.2	11481	3.1	169.0:1	7870	**C803_ 169.0**	**S3 + M3SA4**	**P90 + BN90LA4**		193...200
9.6	12133	1.2	178.6:1	3600	**C613_ 178.6**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
9.6	12174	1.7	179.2:1	5620	**C703_ 179.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	185...192
8.9	13186	1.5	194.1:1	5620	**C703_ 194.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	185...192
8.0	14667	2.4	215.9:1	7870	**C803_ 215.9**	**S3 + M3SA4**	**P90 + BN90LA4**		193...200
7.9	14403	1.0	217.4:1	3600	**C614_ 217.4**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	177...184
7.2	16257	1.3	239.3:1	5620	**C703_ 239.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	185...192
6.8	16649	1.2	251.3:1	5620	**C704_ 251.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	185...192
6.6	17351	2.0	261.9:1	7870	**C804_ 261.9**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	193...200
6.3	18033	1.1	272.2:1	5620	**C704_ 272.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	185...192
6.0	18927	1.9	285.7:1	7870	**C804_ 285.7**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	193...200
5.9	19404	3.3	292.9:1	13490	**C904_ 292.9**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	201...208
5.1	22147	1.6	334.3:1	7870	**C804_ 334.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	193...200
5.1	22459	2.8	339.0:1	13490	**C904_ 339.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	201...208
4.1	27659	1.3	417.5:1	7870	**C804_ 417.5**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	193...200
4.1	27759	2.3	419.0:1	13490	**C904_ 419.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	201...208
3.8	30170	1.2	455.4:1	7870	**C804_ 455.4**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	193...200
3.8	30283	2.1	457.1:1	13490	**C904_ 457.1**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	201...208
3.2	35391	1.8	534.2:1	13490	**C904_ 534.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	201...208
2.4	47183	1.4	712.2:1	13490	**C904_ 712.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	201...208
2.4	47720	2.2	720.3:1	19110	**C1004_ 720.3**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	209...216
2.0	55915	1.1	844.0:1	13490	**C904_ 844.0**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	201...208

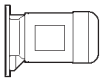
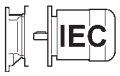
2 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
1.9	60168	1.8	908.2:1	19110	**C1004_ 908.2**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	209...216
1.6	71616	1.5	1081:1	19110	**C1004_ 1081**	**S3 + M3SA4**	**P90 + BN90LA4**	**N140TC**	209...216
1.3	90780	1.2	908.2:1	19110	**C1004_ 908.2**	**S3 + M3LA6**	**P100 + BN100LA6**	**N180TC**	209...216

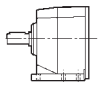
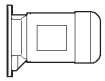
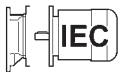
3 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
637	282	2.5	2.7:1	400	**C212_ 2.7**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	129...140
614	293	1.1	2.8:1	160	**C112_ 2.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	117...128
593	303	3.8	2.9:1	610	**C312_ 2.9**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
465	387	3.4	3.7:1	650	**C312_ 3.7**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
465	387	2.1	3.7:1	430	**C212_ 3.7**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	129...140
422	426	4.2	2.7:1	760	**C352_ 2.7**	**S3 + M3LC6**	**P112 + BN112M6**		153...160
374	481	3.7	4.6:1	790	**C352_ 4.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
358	502	1.8	4.8:1	440	**C212_ 4.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	129...140
344	523	2.6	5.0:1	700	**C312_ 5.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
297	606	2.9	5.8:1	830	**C352_ 5.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
282	638	1.5	6.1:1	460	**C212_ 6.1**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	129...140
269	669	1.7	6.4:1	480	**C212_ 6.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	129...140
265	680	2.5	6.5:1	760	**C312_ 6.5**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
242	742	1.6	7.1:1	490	**C212_ 7.1**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	129...140
239	753	2.4	7.2:1	780	**C312_ 7.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
228	789	1.8	5.0:1	770	**C312_ 5.0**	**S3 + M3LC6**	**P112 + BN112M6**		141...152
218	826	4.1	7.9:1	920	**C352_ 7.9**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
205	878	2.2	8.4:1	810	**C312_ 8.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
198	910	1.4	8.7:1	500	**C212_ 8.7**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	129...140
195	920	3.7	8.8:1	950	**C352_ 8.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
185	972	2.0	9.3:1	830	**C312_ 9.3**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
179	1004	3.4	9.6:1	1140	**C412_ 9.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
179	1004	1.3	9.6:1	510	**C212_ 9.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	129...140
164	1098	3.1	10.5:1	980	**C352_ 10.5**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
161	1120	1.2	7.1:1	510	**C212_ 7.1**	**S3 + M3LC6**	**P112 + BN112M6**		129...140
158	1136	1.8	7.2:1	860	**C312_ 7.2**	**S3 + M3LC6**	**P112 + BN112M6**		141...152
155	1160	1.8	11.1:1	860	**C312_ 11.1**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
154	1171	3.2	11.2:1	1170	**C412_ 11.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
154	1171	1.2	11.2:1	510	**C212_ 11.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	129...140
147	1223	2.7	11.7:1	1010	**C352_ 11.7**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160

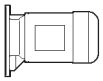
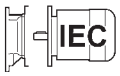
3 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
140	1286	1.7	12.3:1	880	**C312_ 12.3**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
139	1296	2.9	12.4:1	1210	**C412_ 12.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
139	1296	1.1	12.4:1	510	**C212_ 12.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	129...140
129	1390	2.4	13.3:1	1030	**C352_ 13.3**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
123	1464	1.6	14.0:1	900	**C312_ 14.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
121	1484	2.7	14.2:1	1240	**C412_ 14.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
116	1547	2.2	14.8:1	1060	**C352_ 14.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
110	1631	1.5	15.6:1	910	**C312_ 15.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
109	1652	2.4	15.8:1	1270	**C412_ 15.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
104	1735	4.1	16.6:1	2250	**C512_ 16.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
103	1751	1.4	11.1:1	920	**C312_ 11.1**	**S3 + M3LC6**	**P112 + BN112M6**		141...152
101	1788	1.9	17.1:1	1080	**C352_ 17.1**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
97	1861	2.3	17.8:1	1300	**C412_ 17.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
95	1892	1.3	18.1:1	930	**C312_ 18.1**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
91	1976	3.6	18.9:1	2250	**C512_ 18.9**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
91	1986	1.7	19.0:1	1110	**C352_ 19.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
87	2070	2.1	19.8:1	1320	**C412_ 19.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
86	2101	1.2	20.1:1	940	**C312_ 20.1**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
85	2058	1.7	20.2:1	1120	**C353_ 20.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
82	2195	3.2	21.0:1	2250	**C512_ 21.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
81	2208	1.2	14.0:1	940	**C312_ 14.0**	**S3 + M3LC6**	**P112 + BN112M6**		141...152
78	2252	1.7	22.1:1	1140	**C353_ 22.1**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
76	2363	1.9	22.6:1	1350	**C412_ 22.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
76	2363	1.1	22.6:1	950	**C312_ 22.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	141...152
74	2446	2.9	23.4:1	2250	**C512_ 23.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
69	2614	1.7	25.0:1	1380	**C412_ 25.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
66	2708	2.6	25.9:1	2250	**C512_ 25.9**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
66	2670	1.5	26.2:1	1160	**C353_ 26.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
63	2864	4.2	27.4:1	3570	**C612_ 27.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
61	2959	1.5	28.3:1	1390	**C412_ 28.3**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
60	2925	1.4	28.7:1	1170	**C353_ 28.7**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
58	3115	2.3	29.8:1	2250	**C512_ 29.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
57	3178	3.8	30.4:1	3600	**C612_ 30.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
55	3283	1.3	31.4:1	1410	**C412_ 31.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
52	3363	4.0	33.0:1	3600	**C613_ 33.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
52	3450	2.0	33.0:1	2250	**C512_ 33.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
51	3492	1.3	33.4:1	1410	**C412_ 33.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
50	3575	3.0	34.2:1	3600	**C612_ 34.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
50	3536	1.1	34.7:1	1180	**C353_ 34.7**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	153...160
48	3679	3.7	36.1:1	3600	**C613_ 36.1**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
47	3805	1.8	36.4:1	2250	**C512_ 36.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176

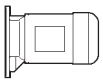
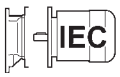
3 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
47	3750	1.4	36.8:1	1440	**C413_ 36.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
46	3770	2.3	37.0:1	2250	**C513_ 37.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
46	3878	1.1	37.1:1	1430	**C412_ 37.1**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
45	3973	3.0	38.0:1	3600	**C612_ 38.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
43	4107	1.3	40.3:1	1450	**C413_ 40.3**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
43	4223	1.7	40.4:1	2250	**C512_ 40.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
42	4127	2.1	40.5:1	2250	**C513_ 40.5**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
40	4506	1.5	43.1:1	2250	**C512_ 43.1**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
40	4423	3.2	43.4:1	3600	**C613_ 43.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
37	4759	1.9	46.7:1	2250	**C513_ 46.7**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
37	4789	1.1	47.0:1	1450	**C413_ 47.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	161...168
36	4851	2.9	47.6:1	3600	**C613_ 47.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
36	4997	1.4	47.8:1	2250	**C512_ 47.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
34	5217	1.7	51.2:1	2250	**C513_ 51.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
33	5373	1.2	51.4:1	2250	**C512_ 51.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
32	5452	2.6	53.5:1	3600	**C613_ 53.5**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
30	5757	3.5	56.5:1	5620	**C703_ 56.5**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	185...192
30	5959	1.2	57.0:1	2250	**C512_ 57.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
29.4	5971	2.4	58.6:1	3600	**C613_ 58.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
29.2	6012	1.5	59.0:1	2250	**C513_ 59.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
26.6	6583	1.3	64.6:1	2250	**C513_ 64.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
26.1	6715	3.0	65.9:1	5620	**C703_ 65.9**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	185...192
25.4	6899	2.1	67.7:1	3600	**C613_ 67.7**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
24.1	7266	2.8	71.3:1	5620	**C703_ 71.3**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	185...192
23.6	7429	1.2	72.9:1	2250	**C513_ 72.9**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
23.2	7561	1.9	74.2:1	3600	**C613_ 74.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
21.5	8142	1.1	79.9:1	2250	**C513_ 79.9**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	169...176
21.1	8295	2.5	81.4:1	5620	**C703_ 81.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	185...192
20.7	8458	1.7	83.0:1	3600	**C613_ 83.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
19.5	8988	2.3	88.2:1	5620	**C703_ 88.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	185...192
19.3	9100	3.9	89.3:1	7870	**C803_ 89.3**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	193...200
18.9	9273	1.5	91.0:1	3600	**C613_ 91.0**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
17.7	9925	3.6	97.4:1	7870	**C803_ 97.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	193...200
16.6	10557	1.3	103.6:1	3600	**C613_ 103.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
16.6	10577	1.9	103.8:1	5620	**C703_ 103.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	185...192
15.7	11158	3.2	109.5:1	7870	**C803_ 109.5**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	193...200
15.3	11454	1.8	112.4:1	5620	**C703_ 112.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	185...192
15.1	11576	1.2	113.6:1	3600	**C613_ 113.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
13.4	13054	1.1	128.1:1	3600	**C613_ 128.1**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	177...184
12.6	13930	2.5	136.7:1	7870	**C803_ 136.7**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	193...200
12.5	14001	1.5	137.4:1	5620	**C703_ 137.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	185...192

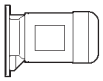
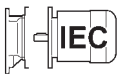
3 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
10.6	16590	1.2	162.8:1	5620	**C703_ 162.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	185...192
9.6	18261	1.1	179.2:1	5620	**C703_ 179.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	185...192
9.3	18791	1.9	184.4:1	7870	**C803_ 184.4**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	193...200
8.0	22001	1.6	215.9:1	7870	**C803_ 215.9**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	193...200
8.0	22001	1.6	215.9:1	7870	**C803_ 215.9**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	193...200
7.4	23025	2.8	231.7:1	13490	**C904_ 231.7**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	201...208
6.6	26026	1.4	261.9:1	7870	**C804_ 261.9**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	193...200
6.0	28391	1.2	285.7:1	7870	**C804_ 285.7**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	193...200
5.9	29107	2.2	292.9:1	13490	**C904_ 292.9**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	201...208
4.7	36749	1.7	369.8:1	13490	**C904_ 369.8**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	201...208
4.5	37812	2.8	380.5:1	19110	**C1004_ 380.5**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	209...216
3.8	45424	1.4	457.1:1	13490	**C904_ 457.1**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	201...208
3.2	53086	1.2	534.2:1	13490	**C904_ 534.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	201...208
3.0	57895	1.8	582.6:1	19110	**C1004_ 582.6**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	209...216
2.4	71579	1.5	720.3:1	19110	**C1004_ 720.3**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	209...216
1.9	90252	1.2	908.2:1	19110	**C1004_ 908.2**	**S3 + M3LA4**	**P100 + BN100LA4**	**N180TC**	209...216

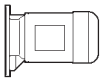
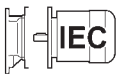
5 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
641	468	3.8	2.7:1	640	**C352_ 2.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	153...160
641	468	1.5	2.7:1	340	**C212_ 2.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	129...140
597	502	2.3	2.9:1	560	**C312_ 2.9**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	141...152
494	606	2.9	3.5:1	680	**C352_ 3.5**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	153...160
468	641	2.1	3.7:1	590	**C312_ 3.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	141...152
468	641	1.2	3.7:1	350	**C212_ 3.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	129...140
376	797	2.2	4.6:1	720	**C352_ 4.6**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	153...160
346	866	1.6	5.0:1	620	**C312_ 5.0**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	141...152
309	970	4.0	5.6:1	1580	**C512_ 5.6**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
298	1005	1.8	5.8:1	740	**C352_ 5.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	153...160
288	1039	2.2	6.0:1	860	**C412_ 6.0**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	161...168
284	1057	2.9	6.1:1	790	**C352_ 6.1**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	153...160
275	1091	1.3	6.3:1	640	**C312_ 6.3**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	141...152
270	1109	2.8	6.4:1	940	**C412_ 6.4**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	161...168
266	1126	1.5	6.5:1	680	**C312_ 6.5**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	141...152
254	1178	2.7	6.8:1	810	**C352_ 6.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	153...160

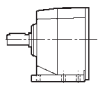
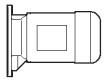
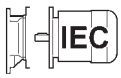
5 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
247	1213	4.6	7.0:1	1700	**C512_ 7.0**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
244	1230	2.6	7.1:1	960	**C412_ 7.1**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	161...168
240	1247	1.4	7.2:1	690	**C312_ 7.2**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	141...152
222	1351	4.2	7.8:1	1750	**C512_ 7.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
219	1368	2.5	7.9:1	820	**C352_ 7.9**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	153...160
206	1455	1.3	8.4:1	700	**C312_ 8.4**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	141...152
201	1490	2.3	8.6:1	990	**C412_ 8.6**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	161...168
197	1524	4.0	8.8:1	1810	**C512_ 8.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
197	1524	2.2	8.8:1	840	**C352_ 8.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	153...160
186	1611	1.2	9.3:1	710	**C312_ 9.3**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	141...152
180	1663	2.1	9.6:1	1010	**C412_ 9.6**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	161...168
177	1698	3.6	9.8:1	1860	**C512_ 9.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
165	1819	1.8	10.5:1	850	**C352_ 10.5**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	153...160
154	1940	1.9	11.2:1	1030	**C412_ 11.2**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	161...168
148	2027	1.7	11.7:1	860	**C352_ 11.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	153...160
147	2044	3.3	11.8:1	1960	**C512_ 11.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
140	2148	1.8	12.4:1	1050	**C412_ 12.4**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	161...168
132	2269	2.9	13.1:1	2010	**C512_ 13.1**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
130	2304	1.5	13.3:1	860	**C352_ 13.3**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	153...160
122	2460	1.6	14.2:1	1050	**C412_ 14.2**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	161...168
117	2564	1.3	14.8:1	870	**C352_ 14.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	153...160
115	2598	2.7	15.0:1	2080	**C512_ 15.0**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
109	2737	1.5	15.8:1	1070	**C412_ 15.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	161...168
109	2754	4.3	15.9:1	2950	**C612_ 15.9**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
104	2876	2.4	16.6:1	2120	**C512_ 16.6**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
98	3066	3.9	17.7:1	3010	**C612_ 17.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
97	3083	1.4	17.8:1	1060	**C412_ 17.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	161...168
92	3274	2.2	18.9:1	2190	**C512_ 18.9**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
88	3395	3.5	19.6:1	3100	**C612_ 19.6**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
87	3430	1.3	19.8:1	1070	**C412_ 19.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	161...168
82	3638	1.9	21.0:1	2230	**C512_ 21.0**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
77	3880	3.1	22.4:1	3190	**C612_ 22.4**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
74	4054	1.7	23.4:1	2250	**C512_ 23.4**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
70	4296	2.8	24.8:1	3280	**C612_ 24.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
67	4487	1.6	25.9:1	2250	**C512_ 25.9**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
63	4746	2.5	27.4:1	3350	**C612_ 27.4**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
62	4798	3.9	27.7:1	5010	**C702_ 27.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	185...192
58	5162	1.4	29.8:1	2250	**C512_ 29.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
57	5266	2.3	30.4:1	3440	**C612_ 30.4**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
52	5717	1.2	33.0:1	2250	**C512_ 33.0**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
51	5924	1.8	34.2:1	3530	**C612_ 34.2**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184

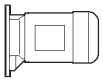
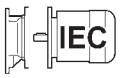
5 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
50	6011	3.1	34.7:1	5260	**C702_ 34.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	185...192
47	6248	1.4	37.0:1	2250	**C513_ 37.0**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
46	6583	1.8	38.0:1	3600	**C612_ 38.0**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
43	6839	1.3	40.5:1	2250	**C513_ 40.5**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	169...176
42	6974	2.7	41.3:1	5620	**C703_ 41.3**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	185...192
40	7328	1.9	43.4:1	3600	**C613_ 43.4**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
40	7345	4.6	43.5:1	7870	**C803_ 43.5**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	193...200
39	7548	2.7	44.7:1	5620	**C703_ 44.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	185...192
36	8004	4.2	47.4:1	7870	**C803_ 47.4**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	193...200
36	8038	1.8	47.6:1	3600	**C613_ 47.6**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
33	8814	2.3	52.2:1	5620	**C703_ 52.2**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	185...192
32	9034	1.6	53.5:1	3600	**C613_ 53.5**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
31	9540	2.1	56.5:1	5620	**C703_ 56.5**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	185...192
30	9675	3.7	57.3:1	7870	**C803_ 57.3**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	193...200
29.5	9895	1.4	58.6:1	3600	**C613_ 58.6**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
25.6	11432	1.2	67.7:1	3600	**C613_ 67.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	177...184
24.5	11904	3.0	70.5:1	7870	**C803_ 70.5**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	193...200
24.3	12039	1.7	71.3:1	5620	**C703_ 71.3**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	185...192
21.3	13745	1.5	81.4:1	5620	**C703_ 81.4**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	185...192
19.6	14893	1.4	88.2:1	5620	**C703_ 88.2**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	185...192
19.4	15079	2.3	89.3:1	7870	**C803_ 89.3**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	193...200
18.0	16244	3.9	96.2:1	13490	**C903_ 96.2**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	201...208
17.8	16447	2.2	97.4:1	7870	**C803_ 97.4**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	193...200
15.8	18490	1.9	109.5:1	7870	**C803_ 109.5**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	193...200
14.8	19705	3.2	116.7:1	13490	**C903_ 116.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	201...208
12.9	22644	2.8	134.1:1	13490	**C903_ 134.1**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	201...208
12.7	23083	1.5	136.7:1	7870	**C803_ 136.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	193...200
10.2	28537	1.2	169.0:1	7870	**C803_ 169.0**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	193...200
10.1	29060	2.2	172.1:1	13490	**C903_ 172.1**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	201...208
9.3	30529	3.5	185.4:1	19110	**C1004_ 185.4**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	209...216
7.5	38153	1.7	231.7:1	13490	**C904_ 231.7**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	201...208
7.1	40212	2.6	244.2:1	19110	**C1004_ 244.2**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	209...216
6.4	44213	1.4	268.5:1	13490	**C904_ 268.5**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	201...208
5.9	48231	1.3	292.9:1	13490	**C904_ 292.9**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	201...208
5.3	53286	2.0	323.6:1	19110	**C1004_ 323.6**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	209...216
4.2	67480	1.6	409.8:1	19110	**C1004_ 409.8**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	209...216
3.4	82761	1.3	502.6:1	19110	**C1004_ 502.6**	**S3 + M3LC4**	**P100 + BN100LC4**	**N180TC**	209...216

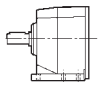
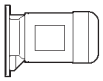
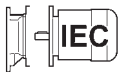
7.5 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
641	702	3.1	2.7:1	690	**C412_ 2.7**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	161...168
481	935	2.4	3.6:1	730	**C412_ 3.6**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	161...168
438	1025	3.5	2.6:1	1380	**C512_ 2.6**	**S4 + M4LB6**	**P132 + BN132MB6**	**N250TC**	169...176
422	1065	2.0	2.7:1	740	**C412_ 2.7**	**S4 + M4LB6**	**P132 + BN132MB6**		161...168
384	1169	3.3	4.5:1	1420	**C512_ 4.5**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
368	1221	1.9	4.7:1	760	**C412_ 4.7**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	161...168
345	1301	2.9	3.3:1	1470	**C512_ 3.3**	**S4 + M4LB6**	**P132 + BN132MB6**	**N250TC**	169...176
317	1420	1.6	3.6:1	770	**C412_ 3.6**	**S4 + M4LB6**	**P132 + BN132MB6**		161...168
309	1455	2.6	5.6:1	1510	**C512_ 5.6**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
288	1559	3.8	6.0:1	2130	**C612_ 6.0**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
288	1559	1.5	6.0:1	770	**C412_ 6.0**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	161...168
270	1663	1.8	6.4:1	860	**C412_ 6.4**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	161...168
247	1819	3.1	7.0:1	1640	**C512_ 7.0**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
244	1845	1.7	7.1:1	880	**C412_ 7.1**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	161...168
222	2027	2.8	7.8:1	1680	**C512_ 7.8**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
201	2235	1.5	8.6:1	900	**C412_ 8.6**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	161...168
197	2287	2.7	8.8:1	1730	**C512_ 8.8**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
180	2494	1.4	9.6:1	910	**C412_ 9.6**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	161...168
177	2546	2.4	9.8:1	1770	**C512_ 9.8**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
154	2910	1.3	11.2:1	910	**C412_ 11.2**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	161...168
147	3066	2.2	11.8:1	1860	**C512_ 11.8**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
143	3144	3.8	12.1:1	2610	**C612_ 12.1**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
140	3222	1.2	12.4:1	910	**C412_ 12.4**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	161...168
132	3404	1.9	13.1:1	1890	**C512_ 13.1**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
122	3690	1.1	14.2:1	900	**C412_ 14.2**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	161...168
121	3716	3.2	14.3:1	2720	**C612_ 14.3**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
115	3898	1.8	15.0:1	1950	**C512_ 15.0**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
109	4131	2.9	15.9:1	2810	**C612_ 15.9**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
104	4313	1.6	16.6:1	1980	**C512_ 16.6**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
98	4599	2.6	17.7:1	2860	**C612_ 17.7**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
92	4911	1.4	18.9:1	2030	**C512_ 18.9**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
90	5015	3.7	19.3:1	4430	**C702_ 19.3**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	185...192
88	5093	2.3	19.6:1	2950	**C612_ 19.6**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
82	5457	1.3	21.0:1	2060	**C512_ 21.0**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
77	5820	2.1	22.4:1	3010	**C612_ 22.4**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
76	5950	3.1	22.9:1	4590	**C702_ 22.9**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	185...192
74	6080	1.2	23.4:1	2090	**C512_ 23.4**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
70	6444	1.9	24.8:1	3080	**C612_ 24.8**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
63	7120	1.7	27.4:1	3130	**C612_ 27.4**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
63	6940	1.2	27.4:1	2130	**C513_ 27.4**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
62	7198	2.6	27.7:1	4770	**C702_ 27.7**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	185...192

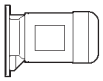
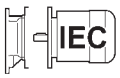
7.5 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
57	7624	1.2	30.1:1	2160	**C513_ 30.1**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	169...176
57	7899	1.5	30.4:1	3220	**C612_ 30.4**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
55	8133	4.0	31.3:1	7510	**C802_ 31.3**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	193...200
51	8887	1.2	34.2:1	3260	**C612_ 34.2**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
50	9017	2.1	34.7:1	4970	**C702_ 34.7**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	185...192
46	9874	1.2	38.0:1	3330	**C612_ 38.0**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
44	10160	2.8	39.1:1	7870	**C802_ 39.1**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	193...200
42	10461	1.9	41.3:1	5350	**C703_ 41.3**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	185...192
40	10993	1.3	43.4:1	3370	**C613_ 43.4**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
40	11018	3.1	43.5:1	7870	**C803_ 43.5**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	193...200
39	11322	1.8	44.7:1	5420	**C703_ 44.7**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	185...192
36	12006	2.8	47.4:1	7870	**C803_ 47.4**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	193...200
36	12056	1.2	47.6:1	3440	**C613_ 47.6**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	177...184
33	13221	1.5	52.2:1	5550	**C703_ 52.2**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	185...192
31	14311	1.4	56.5:1	5620	**C703_ 56.5**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	185...192
30	14513	2.4	57.3:1	7870	**C803_ 57.3**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	193...200
26.3	16691	1.2	65.9:1	5620	**C703_ 65.9**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	185...192
24.5	17857	2.0	70.5:1	7870	**C803_ 70.5**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	193...200
24.3	18059	1.1	71.3:1	5620	**C703_ 71.3**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	185...192
22.5	19478	1.8	76.9:1	7870	**C803_ 76.9**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	193...200
21.3	20567	3.1	81.2:1	13290	**C903_ 81.2**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	201...208
18.0	24366	2.6	96.2:1	13490	**C903_ 96.2**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	201...208
17.8	24670	1.4	97.4:1	7870	**C803_ 97.4**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	193...200
14.8	29558	2.2	116.7:1	13490	**C903_ 116.7**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	201...208
14.5	30267	1.2	119.5:1	7870	**C803_ 119.5**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	193...200
11.8	37055	1.7	146.3:1	13490	**C903_ 146.3**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	201...208
11.5	38094	2.8	150.4:1	19110	**C1003_ 150.4**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	209...216
10.1	43590	1.5	172.1:1	13490	**C903_ 172.1**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	201...208
8.7	49301	2.2	199.6:1	19110	**C1004_ 199.6**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	209...216
8.1	52463	1.2	212.4:1	13490	**C904_ 212.4**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	201...208
7.5	57230	1.1	231.7:1	13490	**C904_ 231.7**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	201...208
7.1	60317	1.8	244.2:1	19110	**C1004_ 244.2**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	209...216
6.6	64961	1.6	263.0:1	19110	**C1004_ 263.0**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	209...216
5.8	74223	1.4	300.5:1	19110	**C1004_ 300.5**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	209...216
5.3	79929	1.3	323.6:1	19110	**C1004_ 323.6**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	209...216
4.5	93983	1.1	380.5:1	19110	**C1004_ 380.5**	**S4 + M4SA4**	**P132 + BN132S4**	**N210TC**	209...216

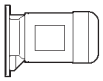
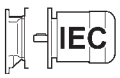
10 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
669	896	4.0	2.6:1	1200	**C512_ 2.6**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	169...176
644	930	2.3	2.7:1	640	**C412_ 2.7**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	161...168
527	1137	3.3	3.3:1	1270	**C512_ 3.3**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	169...176
483	1240	1.8	3.6:1	660	**C412_ 3.6**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	161...168
446	1343	2.6	2.6:1	1330	**C512_ 2.6**	**S5 + M5SA6**	**P160 + BN160M6**	**N250TC**	169...176
414	1447	4.1	2.8:1	1890	**C612_ 2.8**	**S5 + M5SA6**	**P160 + BN160M6**	**N250TC**	177...184
387	1550	2.5	4.5:1	1370	**C512_ 4.5**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	169...176
378	1585	3.7	4.6:1	1920	**C612_ 4.6**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
370	1619	1.4	4.7:1	670	**C412_ 4.7**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	161...168
311	1929	2.0	5.6:1	1440	**C512_ 5.6**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	169...176
290	2067	2.8	6.0:1	2060	**C612_ 6.0**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
290	2067	1.1	6.0:1	660	**C412_ 6.0**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	161...168
272	2205	1.4	6.4:1	770	**C412_ 6.4**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	161...168
249	2411	2.3	7.0:1	1570	**C512_ 7.0**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	169...176
245	2446	1.3	7.1:1	780	**C412_ 7.1**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	161...168
223	2687	2.1	7.8:1	1600	**C512_ 7.8**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	169...176
202	2962	1.2	8.6:1	770	**C412_ 8.6**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	161...168
198	3031	3.9	8.8:1	2320	**C612_ 8.8**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
198	3031	2.0	8.8:1	1650	**C512_ 8.8**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	169...176
178	3376	3.5	9.8:1	2380	**C612_ 9.8**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
178	3376	1.8	9.8:1	1680	**C512_ 9.8**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	169...176
160	3755	3.2	10.9:1	2450	**C612_ 10.9**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
147	4065	1.7	11.8:1	1740	**C512_ 11.8**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	169...176
144	4168	2.9	12.1:1	2500	**C612_ 12.1**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
134	4478	4.2	13.0:1	3930	**C702_ 13.0**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	185...192
133	4512	1.5	13.1:1	1760	**C512_ 13.1**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	169...176
122	4926	2.4	14.3:1	2590	**C612_ 14.3**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
116	5167	1.4	15.0:1	1800	**C512_ 15.0**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	169...176
109	5477	2.2	15.9:1	2650	**C612_ 15.9**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
105	5718	1.2	16.6:1	1810	**C512_ 16.6**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	169...176
104	5753	3.2	16.7:1	4090	**C702_ 16.7**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	185...192
98	6097	2.0	17.7:1	2700	**C612_ 17.7**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
90	6648	2.8	19.3:1	4250	**C702_ 19.3**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	185...192
89	6751	1.8	19.6:1	2770	**C612_ 19.6**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
78	7647	4.3	22.2:1	6740	**C802_ 22.2**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	193...200
78	7716	1.5	22.4:1	2810	**C612_ 22.4**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
76	7888	2.4	22.9:1	4360	**C702_ 22.9**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	185...192
73	8267	3.8	24.0:1	6860	**C802_ 24.0**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	193...200
70	8543	1.4	24.8:1	2860	**C612_ 24.8**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
67	8922	3.7	25.9:1	6970	**C802_ 25.9**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	193...200
64	9438	1.3	27.4:1	2880	**C612_ 27.4**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184

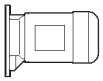
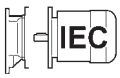
10 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
63	9542	1.9	27.7:1	4500	**C702_ 27.7**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	185...192
59	9872	1.3	29.4:1	2950	**C613_ 29.4**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
57	10472	1.1	30.4:1	2920	**C612_ 30.4**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
56	10782	3.0	31.3:1	7240	**C802_ 31.3**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	193...200
53	11080	1.2	33.0:1	2950	**C613_ 33.0**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
50	11953	1.6	34.7:1	4610	**C702_ 34.7**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	185...192
48	12121	1.1	36.1:1	2990	**C613_ 36.1**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	177...184
45	13469	2.1	39.1:1	7550	**C802_ 39.1**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	193...200
42	13867	1.5	41.3:1	5010	**C703_ 41.3**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	185...192
39	15009	1.4	44.7:1	5060	**C703_ 44.7**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	185...192
37	15916	2.1	47.4:1	7870	**C803_ 47.4**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	193...200
33	17527	1.2	52.2:1	5150	**C703_ 52.2**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	185...192
29.4	19878	3.2	59.2:1	11910	**C903_ 59.2**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	201...208
27.8	20986	1.7	62.5:1	7870	**C803_ 62.5**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	193...200
24.7	23672	1.5	70.5:1	7870	**C803_ 70.5**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	193...200
23.4	24981	2.5	74.4:1	12410	**C903_ 74.4**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	201...208
20.3	28742	3.7	85.6:1	19110	**C1003_ 85.6**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	209...216
19.7	29615	2.1	88.2:1	12720	**C903_ 88.2**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	201...208
19.5	29984	1.2	89.3:1	7870	**C803_ 89.3**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	193...200
15.5	37573	2.8	111.9:1	19110	**C1003_ 111.9**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	209...216
14.9	39184	1.6	116.7:1	13170	**C903_ 116.7**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	201...208
11.9	49123	1.3	146.3:1	13400	**C903_ 146.3**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	201...208
11.6	50500	2.1	150.4:1	19110	**C1003_ 150.4**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	209...216
10.1	57786	1.1	172.1:1	13490	**C903_ 172.1**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	201...208
8.7	65357	1.6	199.6:1	19110	**C1004_ 199.6**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	209...216
6.6	86117	1.2	263:1	19110	**C1004_ 263.0**	**S4 + M4LA4**	**P132 + BN132MA4**	**N210TC**	209...216

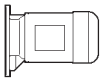
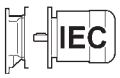
15 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
669	1343	2.6	2.6:1	1140	**C512_ 2.6**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	169...176
644	1395	1.6	2.7:1	550	**C412_ 2.7**	**S4 + M4LC4**	**P160 + BN160MR4**		161...168
621	1447	4.1	2.8:1	1630	**C612_ 2.8**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
527	1705	2.2	3.3:1	1200	**C512_ 3.3**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	169...176
483	1860	1.2	3.6:1	540	**C412_ 3.6**	**S4 + M4LC4**	**P160 + BN160MR4**		161...168
470	1912	3.1	3.7:1	1740	**C612_ 3.7**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
442	2033	1.7	2.6:1	1250	**C512_ 2.6**	**S5 + M5SB6**	**P160 + BN160L6**		169...176

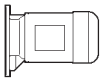
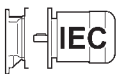
15 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
387	2325	1.7	4.5:1	1270	**C512_ 4.5**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	169...176
378	2377	2.5	4.6:1	1830	**C612_ 4.6**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
348	2580	1.4	3.3:1	1300	**C512_ 3.3**	**S5 + M5SB6**	**P160 + BN160L6**		169...176
311	2893	1.3	5.6:1	1320	**C512_ 5.6**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	169...176
290	3100	1.9	6.0:1	1950	**C612_ 6.0**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
260	3462	3.5	6.7:1	2060	**C612_ 6.7**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
249	3617	1.5	7.0:1	1450	**C512_ 7.0**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	169...176
232	3875	3.1	7.5:1	2110	**C612_ 7.5**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
223	4030	1.4	7.8:1	1460	**C512_ 7.8**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	169...176
198	4547	2.6	8.8:1	2180	**C612_ 8.8**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
198	4547	1.3	8.8:1	1490	**C512_ 8.8**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	169...176
183	4909	3.9	9.5:1	3460	**C702_ 9.5**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	185...192
178	5064	2.4	9.8:1	2230	**C612_ 9.8**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
178	5064	1.2	9.8:1	1500	**C512_ 9.8**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	169...176
171	5270	3.5	10.2:1	3530	**C702_ 10.2**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	185...192
160	5632	2.1	10.9:1	2270	**C612_ 10.9**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
155	5787	3.3	11.2:1	3550	**C702_ 11.2**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	185...192
147	6097	1.1	11.8:1	1530	**C512_ 11.8**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	169...176
144	6252	1.9	12.1:1	2320	**C612_ 12.1**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
134	6717	2.8	13.0:1	3690	**C702_ 13.0**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	185...192
123	7285	2.6	14.1:1	3690	**C702_ 14.1**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	185...192
122	7389	1.6	14.3:1	2360	**C612_ 14.3**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
114	7905	2.4	15.3:1	3780	**C702_ 15.3**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	185...192
109	8215	1.5	15.9:1	2410	**C612_ 15.9**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
104	8629	3.6	16.7:1	6050	**C802_ 16.7**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	193...200
104	8629	2.1	16.7:1	3780	**C702_ 16.7**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	185...192
98	9146	1.3	17.7:1	2410	**C612_ 17.7**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
96	9352	3.5	18.1:1	6140	**C802_ 18.1**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	193...200
90	9972	1.9	19.3:1	3890	**C702_ 19.3**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	185...192
89	10127	1.2	19.6:1	2430	**C612_ 19.6**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	177...184
85	10592	3.0	20.5:1	6290	**C802_ 20.5**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	193...200
78	11471	2.9	22.2:1	6380	**C802_ 22.2**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	193...200
76	11832	1.6	22.9:1	3960	**C702_ 22.9**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	185...192
67	13382	2.4	25.9:1	6560	**C802_ 25.9**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	193...200
63	14312	1.3	27.7:1	4000	**C702_ 27.7**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	185...192
56	16173	2.0	31.3:1	6740	**C802_ 31.3**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	193...200
50	18136	2.6	35.1:1	10120	**C902_ 35.1**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	201...208
45	20203	1.4	39.1:1	6950	**C802_ 39.1**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	193...200
44	19844	3.2	39.4:1	10360	**C903_ 39.4**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	201...208
40	21909	1.5	43.5:1	7440	**C803_ 43.5**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	193...200
37	23873	1.4	47.4:1	7530	**C803_ 47.4**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	193...200

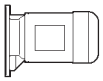
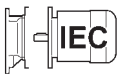
15 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
35	25334	2.5	50.3:1	10790	**C903_ 50.3**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	201...208
30	28860	1.2	57.3:1	7690	**C803_ 57.3**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	193...200
29.4	29816	2.1	59.2:1	11020	**C903_ 59.2**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	201...208
25.1	34954	3.0	69.4:1	19060	**C1003_ 69.4**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	209...216
23.4	37472	1.7	74.4:1	11290	**C903_ 74.4**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	201...208
19.7	44423	1.4	88.2:1	11400	**C903_ 88.2**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	201...208
18.8	46689	2.3	92.7:1	19110	**C1003_ 92.7**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	209...216
15.5	56359	1.9	111.9:1	19110	**C1003_ 111.9**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	209...216
14.9	58777	1.1	116.7:1	11420	**C903_ 116.7**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	201...208
11.6	75750	1.4	150.4:1	19110	**C1003_ 150.4**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	209...216
8.7	98036	1.1	199.6:1	19110	**C1004_ 199.6**	**S4 + M4LC4**	**P160 + BN160MR4**	**N250TC**	209...216

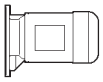
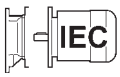
20 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
673	1781	2.0	2.6:1	1080	**C512_ 2.6**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	169...176
625	1918	3.1	2.8:1	1560	**C612_ 2.8**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	177...184
530	2260	1.6	3.3:1	1120	**C512_ 3.3**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	169...176
473	2534	2.3	3.7:1	1660	**C612_ 3.7**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	177...184
389	3082	1.2	4.5:1	1160	**C512_ 4.5**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	169...176
380	3151	1.9	4.6:1	1730	**C612_ 4.6**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	177...184
261	4589	2.6	6.7:1	1930	**C612_ 6.7**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	177...184
250	4795	1.2	7.0:1	1310	**C512_ 7.0**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	169...176
233	5137	2.3	7.5:1	1970	**C612_ 7.5**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	177...184
219	5480	3.4	8.0:1	3190	**C702_ 8.0**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	185...192
199	6028	2.0	8.8:1	2010	**C612_ 8.8**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	177...184
184	6507	2.9	9.5:1	3240	**C702_ 9.5**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	185...192
179	6713	1.8	9.8:1	2040	**C612_ 9.8**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	177...184
161	7466	1.6	10.9:1	2060	**C612_ 10.9**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	177...184
156	7672	2.5	11.2:1	3310	**C702_ 11.2**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	185...192
146	8220	4.0	12.0:1	5400	**C802_ 12.0**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	193...200
145	8288	1.4	12.1:1	2080	**C612_ 12.1**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	177...184
135	8905	2.1	13.0:1	3420	**C702_ 13.0**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	185...192
122	9795	1.2	14.3:1	2090	**C612_ 14.3**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	177...184
117	10206	3.2	14.9:1	5620	**C802_ 14.9**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	193...200
114	10480	1.8	15.3:1	3460	**C702_ 15.3**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	185...192
110	10891	1.1	15.9:1	2100	**C612_ 15.9**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	177...184

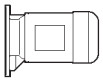
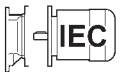
20 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
97	12398	2.6	18.1:1	5800	**C802_ 18.1**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	193...200
91	13220	1.4	19.3:1	3510	**C702_ 19.3**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	185...192
79	15207	2.2	22.2:1	5980	**C802_ 22.2**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	193...200
76	15686	3.5	22.9:1	8880	**C902_ 22.9**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	201...208
68	17741	1.8	25.9:1	6090	**C802_ 25.9**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	193...200
64	18632	2.6	27.2:1	9150	**C902_ 27.2**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	201...208
56	21440	1.5	31.3:1	6180	**C802_ 31.3**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	193...200
50	24043	2.0	35.1:1	9490	**C902_ 35.1**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	201...208
44	26308	2.4	39.4:1	9670	**C903_ 39.4**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	201...208
40	29045	1.2	43.5:1	6810	**C803_ 43.5**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	193...200
38	30848	3.4	46.2:1	16750	**C1003_ 46.2**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	209...216
35	33586	1.9	50.3:1	9910	**C903_ 50.3**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	201...208
30	38326	2.8	57.4:1	17400	**C1003_ 57.4**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	209...216
29.6	39528	1.6	59.2:1	9980	**C903_ 59.2**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	201...208
22.0	53016	2.0	79.4:1	18210	**C1003_ 79.4**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	209...216
21.6	54218	1.2	81.2:1	9960	**C903_ 81.2**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	201...208
18.9	61896	1.7	92.7:1	18520	**C1003_ 92.7**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	209...216
18.2	64233	1.0	96.2:1	9800	**C903_ 96.2**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	201...208
14.5	80458	1.3	120.5:1	18840	**C1003_ 120.5**	**S5 + M5SB4**	**P160 + BN160L4**	**N250TC**	209...216

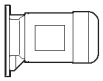
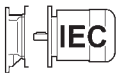
25 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
673	2226	1.6	2.6:1	1020	**C512_ 2.6**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	169...176
625	2397	2.5	2.8:1	1510	**C612_ 2.8**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	177...184
530	2826	1.3	3.3:1	1050	**C512_ 3.3**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	169...176
473	3168	1.9	3.7:1	1590	**C612_ 3.7**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	177...184
380	3939	3.8	4.6:1	2770	**C702_ 4.6**		**P180 + BN180M4**	**N280TC**	185...192
380	3939	1.5	4.6:1	1640	**C612_ 4.6**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	177...184
297	5052	3.3	5.9:1	2880	**C702_ 5.9**		**P180 + BN180M4**	**N280TC**	185...192
292	5137	1.1	6.0:1	1700	**C612_ 6.0**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	177...184
278	5394	3.2	6.3:1	2950	**C702_ 6.3**		**P180 + BN180M4**	**N280TC**	185...192
261	5737	2.1	6.7:1	1820	**C612_ 6.7**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	177...184
233	6422	1.9	7.5:1	1850	**C612_ 7.5**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	177...184
199	7535	1.6	8.8:1	1870	**C612_ 8.8**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	177...184
197	7621	4.1	8.9:1	4920	**C802_ 8.9**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	193...200
184	8134	2.3	9.5:1	3060	**C702_ 9.5**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	185...192
179	8391	1.4	9.8:1	1890	**C612_ 9.8**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	177...184

25 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
161	9333	1.3	10.9:1	1880	**C612_ 10.9**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	177...184
158	9504	3.3	11.1:1	5150	**C802_ 11.1**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	193...200
156	9590	2.0	11.2:1	3100	**C702_ 11.2**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	185...192
145	10360	1.2	12.1:1	1890	**C612_ 12.1**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	177...184
127	11816	2.6	13.8:1	5330	**C802_ 13.8**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	193...200
124	12073	1.6	14.1:1	3130	**C702_ 14.1**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	185...192
105	14299	2.2	16.7:1	5490	**C802_ 16.7**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	193...200
105	14299	1.3	16.7:1	3100	**C702_ 16.7**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	185...192
91	16525	1.1	19.3:1	3170	**C702_ 19.3**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	185...192
79	19009	1.7	22.2:1	5640	**C802_ 22.2**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	193...200
68	22177	1.5	25.9:1	5690	**C802_ 25.9**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	193...200
60	25173	2.1	29.4:1	8790	**C902_ 29.4**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	201...208
51	28628	3.6	34.3:1	15310	**C1003_ 34.3**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	209...216
50	30054	1.6	35.1:1	8950	**C902_ 35.1**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	201...208
41	35806	3.0	42.9:1	15920	**C1003_ 42.9**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	209...216
41	35889	1.8	43.0:1	9130	**C903_ 43.0**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	201...208
33	44486	2.4	53.3:1	16430	**C1003_ 53.3**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	209...216
32	45821	1.4	54.9:1	9150	**C903_ 54.9**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	201...208
27.1	53917	1.2	64.6:1	9060	**C903_ 64.6**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	201...208
25.2	57923	1.8	69.4:1	16950	**C1003_ 69.4**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	209...216
18.9	77370	1.4	92.7:1	17240	**C1003_ 92.7**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	209...216
15.6	93395	1.1	111.9:1	17220	**C1003_ 111.9**	**S5 + M5LA4**	**P180 + BN180M4**	**N280TC**	209...216

30 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
673	2671	1.3	2.6:1	960	**C512_ 2.6**		**P180 + BN180L4**	**N280TC**	169...176
625	2877	2.0	2.8:1	1450	**C612_ 2.8**		**P180 + BN180L4**	**N280TC**	177...184
530	3391	1.1	3.3:1	980	**C512_ 3.3**		**P180 + BN180L4**	**N280TC**	169...176
473	3802	1.5	3.7:1	1520	**C612_ 3.7**		**P180 + BN180L4**	**N280TC**	177...184
380	4726	3.2	4.6:1	2680	**C702_ 4.6**		**P180 + BN180L4**	**N280TC**	185...192
380	4726	1.2	4.6:1	1550	**C612_ 4.6**		**P180 + BN180L4**	**N280TC**	177...184
297	6062	2.8	5.9:1	2770	**C702_ 5.9**		**P180 + BN180L4**	**N280TC**	185...192
261	6884	1.7	6.7:1	1710	**C612_ 6.7**		**P180 + BN180L4**	**N280TC**	177...184
250	7192	4.1	7.0:1	4590	**C802_ 7.0**		**P180 + BN180L4**	**N280TC**	193...200
233	7706	2.2	7.5:1	2860	**C702_ 7.5**		**P180 + BN180L4**	**N280TC**	185...192
233	7706	1.6	7.5:1	1730	**C612_ 7.5**		**P180 + BN180L4**	**N280TC**	177...184

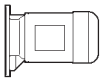
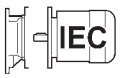
30 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			IEC	NEMA	
199	9042	1.3	8.8:1	1720	**C612_ 8.8**		**P180 + BN180L4**	**N280TC**	177...184
197	9145	3.4	8.9:1	4790	**C802_ 8.9**		**P180 + BN180L4**	**N280TC**	193...200
184	9761	1.9	9.5:1	2880	**C702_ 9.5**		**P180 + BN180L4**	**N280TC**	185...192
179	10069	1.2	9.8:1	1730	**C612_ 9.8**		**P180 + BN180L4**	**N280TC**	177...184
161	11200	1.1	10.9:1	1700	**C612_ 10.9**		**P180 + BN180L4**	**N280TC**	177...184
158	11405	2.7	11.1:1	4970	**C802_ 11.1**		**P180 + BN180L4**	**N280TC**	193...200
156	11508	1.7	11.2:1	2900	**C702_ 11.2**		**P180 + BN180L4**	**N280TC**	185...192
126	14282	3.7	13.9:1	7580	**C902_ 13.9**		**P180 + BN180L4**	**N280TC**	201...208
124	14488	1.3	14.1:1	2860	**C702_ 14.1**		**P180 + BN180L4**	**N280TC**	185...192
117	15310	2.1	14.9:1	5150	**C802_ 14.9**		**P180 + BN180L4**	**N280TC**	193...200
105	17159	1.1	16.7:1	2790	**C702_ 16.7**		**P180 + BN180L4**	**N280TC**	185...192
101	17776	3.2	17.3:1	7850	**C902_ 17.3**		**P180 + BN180L4**	**N280TC**	201...208
97	18598	1.8	18.1:1	5240	**C802_ 18.1**		**P180 + BN180L4**	**N280TC**	193...200
76	23529	2.3	22.9:1	8180	**C902_ 22.9**		**P180 + BN180L4**	**N280TC**	201...208
73	24660	1.3	24.0:1	5330	**C802_ 24.0**		**P180 + BN180L4**	**N280TC**	193...200
60	30208	1.7	29.4:1	8340	**C902_ 29.4**		**P180 + BN180L4**	**N280TC**	201...208
59	30414	2.6	29.6:1	14410	**C1002_ 29.6**		**P180 + BN180L4**	**N280TC**	209...216
50	36065	1.3	35.1:1	8410	**C902_ 35.1**		**P180 + BN180L4**	**N280TC**	201...208
47	36957	2.8	36.9:1	14990	**C1003_ 36.9**		**P180 + BN180L4**	**N280TC**	209...216
38	46272	2.3	46.2:1	15470	**C1003_ 46.2**		**P180 + BN180L4**	**N280TC**	209...216
35	50378	1.2	50.3:1	8410	**C903_ 50.3**		**P180 + BN180L4**	**N280TC**	201...208
30	57489	1.8	57.4:1	15800	**C1003_ 57.4**		**P180 + BN180L4**	**N280TC**	209...216
29.6	59292	1.1	59.2:1	8250	**C903_ 59.2**		**P180 + BN180L4**	**N280TC**	201...208
22.0	79524	1.3	79.4:1	16010	**C1003_ 79.4**		**P180 + BN180L4**	**N280TC**	209...216
17.5	99955	1.1	99.8:1	15870	**C1003_ 99.8**		**P180 + BN180L4**	**N280TC**	209...216

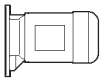
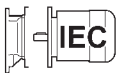
40 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			IEC	NEMA	
380	6302	2.4	4.6:1	2470	**C702_ 4.6**		**P200 + BN200L4**		185...192
313	7672	3.6	5.6:1	4180	**C802_ 5.6**		**P200 + BN200L4**	**N320TC**	193...200
287	8357	3.3	6.1:1	4250	**C802_ 6.1**		**P200 + BN200L4**	**N320TC**	193...200
278	8631	2.0	6.3:1	2590	**C702_ 6.3**		**P200 + BN200L4**		185...192
250	9590	3.1	7.0:1	4340	**C802_ 7.0**		**P200 + BN200L4**	**N320TC**	193...200
230	10412	2.9	7.6:1	4380	**C802_ 7.6**		**P200 + BN200L4**	**N320TC**	193...200
219	10960	1.7	8.0:1	2610	**C702_ 8.0**		**P200 + BN200L4**		185...192
184	13015	1.5	9.5:1	2470	**C702_ 9.5**		**P200 + BN200L4**		185...192
182	13152	2.5	9.6:1	4520	**C802_ 9.6**		**P200 + BN200L4**	**N320TC**	193...200

40 hp

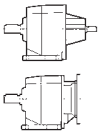
n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
156	15344	3.3	11.2:1	6880	**C902_ 11.2**		**P200 + BN200L4**	**N320TC**	201...208
146	16440	2.0	12.0:1	4610	**C802_ 12.0**		**P200 + BN200L4**	**N320TC**	193...200
126	19043	2.8	13.9:1	7080	**C902_ 13.9**		**P200 + BN200L4**	**N320TC**	201...208
117	20413	1.6	14.9:1	4630	**C802_ 14.9**		**P200 + BN200L4**	**N320TC**	193...200
94	25619	3.7	18.7:1	12590	**C1002_ 18.7**		**P200 + BN200L4**	**N320TC**	209...216
94	25619	2.1	18.7:1	7330	**C902_ 18.7**		**P200 + BN200L4**	**N320TC**	201...208
79	30414	2.9	22.2:1	12970	**C1002_ 22.2**		**P200 + BN200L4**	**N320TC**	209...216
76	31373	1.7	22.9:1	7400	**C902_ 22.9**		**P200 + BN200L4**	**N320TC**	201...208
60	40278	1.3	29.4:1	7330	**C902_ 29.4**		**P200 + BN200L4**	**N320TC**	201...208
59	40552	2.0	29.6:1	13440	**C1002_ 29.6**		**P200 + BN200L4**	**N320TC**	209...216
44	52615	1.2	39.4:1	7170	**C903_ 39.4**		**P200 + BN200L4**	**N320TC**	201...208
38	61696	1.7	46.2:1	14010	**C1003_ 46.2**		**P200 + BN200L4**	**N320TC**	209...216
30	76653	1.4	57.4:1	13980	**C1003_ 57.4**		**P200 + BN200L4**	**N320TC**	209...216
25.2	92677	1.1	69.4:1	13780	**C1003_ 69.4**		**P200 + BN200L4**	**N320TC**	209...216

50 hp

n_2 [rpm]	T_2 [lb·in]	S Safety factor	i (ratio)	R_{n2} [lb]			 IEC	 NEMA	
337	8905	4.3	5.2:1	5780	**C902_ 5.2**		**P225 + BN225S4**	**N320TC**	201...208
313	9590	4.1	5.6:1	5870	**C902_ 5.6**		**P225 + BN225S4**	**N320TC**	201...208
287	10446	2.7	6.1:1	4050	**C802_ 6.1**		**P225 + BN225S4**	**N320TC**	193...200
240	12501	3.4	7.3:1	6160	**C902_ 7.3**		**P225 + BN225S4**	**N320TC**	201...208
230	13015	2.3	7.6:1	4160	**C802_ 7.6**		**P225 + BN225S4**	**N320TC**	193...200
194	15412	3.0	9.0:1	6360	**C902_ 9.0**		**P225 + BN225S4**	**N320TC**	201...208
182	16440	2.0	9.6:1	4230	**C802_ 9.6**		**P225 + BN225S4**	**N320TC**	193...200
156	19180	2.6	11.2:1	6540	**C902_ 11.2**		**P225 + BN225S4**	**N320TC**	201...208
146	20550	1.6	12.0:1	4230	**C802_ 12.0**		**P225 + BN225S4**	**N320TC**	193...200
127	23632	1.3	13.8:1	4230	**C802_ 13.8**		**P225 + BN225S4**	**N320TC**	193...200
126	23803	2.2	13.9:1	6680	**C902_ 13.9**		**P225 + BN225S4**	**N320TC**	201...208
105	28598	1.1	16.7:1	4160	**C802_ 16.7**		**P225 + BN225S4**	**N320TC**	193...200
94	32023	3.0	18.7:1	12050	**C1002_ 18.7**		**P225 + BN225S4**	**N320TC**	209...216
94	32023	1.7	18.7:1	6770	**C902_ 18.7**		**P225 + BN225S4**	**N320TC**	201...208
73	41271	2.3	24.1:1	12410	**C1002_ 24.1**		**P225 + BN225S4**	**N320TC**	209...216
71	42469	1.4	24.8:1	6630	**C902_ 24.8**		**P225 + BN225S4**	**N320TC**	201...208
47	61596	1.7	36.9:1	12810	**C1003_ 36.9**		**P225 + BN225S4**	**N320TC**	209...216
38	77120	1.4	46.2:1	12720	**C1003_ 46.2**		**P225 + BN225S4**	**N320TC**	209...216
30	95816	1.1	57.4:1	12430	**C1003_ 57.4**		**P225 + BN225S4**	**N320TC**	209...216

2.10 SPEED REDUCER RATING CHARTS

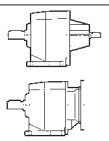
C 11 — 890 lb·in



i	n_1 = **3500** rpm					n_1 = **1750** rpm				
(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 11 2_ 2.8	1250	270	5.6	170	130	625	330	3.4	220	180
C 11 2_ 3.7	946	300	4.7	160	140	473	370	2.9	220	180
C 11 2_ 4.9	714	340	4.1	160	140	357	420	2.5	200	180
C 11 2_ 6.2	565	370	3.5	150	150	282	470	2.2	180	190
C 11 2_ 6.9	507	380	3.2	250	260	254	480	2.0	290	330
C 11 2_ 7.6	461	400	3.1	260	270	230	500	1.9	290	350
C 11 2_ 9.1	385	420	2.7	250	290	192	540	1.7	290	360
C 11 2_ 10.1	347	430	2.5	260	300	173	560	1.6	290	380
C 11 2_ 12.1	289	470	2.3	250	320	145	590	1.4	290	400
C 11 2_ 13.4	261	490	2.1	260	330	131	620	1.4	290	410
C 11 2_ 15.5	226	510	1.9	250	340	113	650	1.2	290	420
C 11 2_ 17.2	203	530	1.8	250	360	102	670	1.1	290	450
C 11 2_ 18.6	188	560	1.8	250	350	94	700	1.1	290	450
C 11 2_ 20.6	170	580	1.6	250	380	85	730	1.0	290	450
C 11 2_ 22.8	153	590	1.5	240	380	76	750	0.96	290	450
C 11 2_ 25.4	138	610	1.4	250	400	69	780	0.90	290	450
C 11 2_ 29.5	119	650	1.3	240	410	59	820	0.81	290	450
C 11 2_ 32.8	107	660	1.2	250	440	53	800	0.71	290	450
C 11 2_ 33.4	105	680	1.2	230	420	52	890	0.78	290	450
C 11 2_ 37.0	95	700	1.1	240	450	47	800	0.63	290	450
C 11 2_ 42.9	82	740	1.0	230	450	41	890	0.61	290	450
C 11 2_ 47.6	74	750	0.92	240	450	37	800	0.49	290	450
C 11 2_ 49.7	70	780	0.92	220	450	35	890	0.52	290	450
C 11 2_ 55.2	63	790	0.84	230	450	32	800	0.42	290	450
C 11 2_ 59.6	59	690	0.68	240	450	29.4	730	0.36	290	450
C 11 2_ 66.2	53	760	0.67	240	450	26.4	800	0.35	290	450

C 11

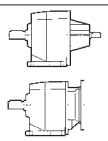
890 lb·in



	i	n_1 = **1100** rpm					n_1 = **600** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 11 2_	**2.8**	393	380	2.5	260	200	214	470	1.7	290	240
C 11 2_	**3.7**	297	430	2.1	250	210	162	530	1.4	290	250
C 11 2_	**4.9**	224	490	1.8	240	220	122	590	1.2	290	260
C 11 2_	**6.2**	177	540	1.6	220	220	97	620	1.0	290	310
C 11 2_	**6.9**	159	550	1.5	290	390	87	670	0.97	290	450
C 11 2_	**7.6**	145	580	1.4	290	400	79	700	0.92	290	450
C 11 2_	**9.1**	121	620	1.3	290	420	66	750	0.83	290	450
C 11 2_	**10.1**	109	640	1.2	290	440	59	780	0.77	290	450
C 11 2_	**12.1**	91	690	1.0	290	450	50	840	0.70	290	450
C 11 2_	**13.4**	82	720	0.99	290	450	45	800	0.60	290	450
C 11 2_	**15.5**	71	760	0.90	290	450	39	880	0.57	290	450
C 11 2_	**17.2**	64	780	0.83	290	450	35	800	0.47	290	450
C 11 2_	**18.6**	59	810	0.80	290	450	32	880	0.47	290	450
C 11 2_	**20.6**	53	790	0.70	290	450	29.1	790	0.38	290	450
C 11 2_	**22.8**	48	880	0.71	290	450	26.2	880	0.39	290	450
C 11 2_	**25.4**	43	790	0.57	290	450	23.6	790	0.31	290	450
C 11 2_	**29.5**	37	890	0.55	290	450	20.3	890	0.30	290	450
C 11 2_	**32.8**	34	800	0.45	290	450	18.3	800	0.24	290	450
C 11 2_	**33.4**	33	890	0.49	290	450	18.0	890	0.27	290	450
C 11 2_	**37.0**	29.7	800	0.40	290	450	16.2	800	0.22	290	450
C 11 2_	**42.9**	25.6	890	0.38	290	450	14.0	890	0.21	290	450
C 11 2_	**47.6**	23.1	800	0.31	290	450	12.6	800	0.17	290	450
C 11 2_	**49.7**	22.1	890	0.33	290	450	12.1	890	0.18	290	450
C 11 2_	**55.2**	19.9	800	0.27	290	450	10.9	800	0.15	290	450
C 11 2_	**59.6**	18.5	750	0.23	290	450	10.1	780	0.13	290	450
C 11 2_	**66.2**	16.6	800	0.22	290	450	9.1	800	0.12	290	450

C 21

1,770 lb·in

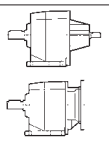


	i	n_1 = **3500** rpm					n_1 = **1750** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 21 2_	**2.7**	1296	580	12.6	—	260	648	710	7.7	—	330
C 21 2_	**3.7**	946	620	9.8	—	290	473	800	6.3	—	360
C 21 2_	**4.8**	729	710	8.6	—	310	365	890	5.4	—	390
C 21 2_	**6.1**	574	750	7.2	—	340	287	930	4.5	—	430
C 21 2_	**6.4**	547	890	8.1	220	340	273	1110	5.1	280	430
C 21 2_	**7.1**	493	930	7.7	250	350	246	1150	4.7	320	450
C 21 2_	**8.7**	402	970	6.5	230	380	201	1240	4.2	280	470
C 21 2_	**9.7**	361	1020	6.1	260	390	180	1280	3.9	330	490
C 21 2_	**11.2**	313	1110	5.8	210	400	156	1370	3.6	270	510
C 21 2_	**12.4**	282	1110	5.2	260	430	141	1420	3.3	320	540
C 21 2_	**14.3**	245	1190	4.9	200	440	122	1500	3.1	250	550
C 21 2_	**15.8**	222	1240	4.6	230	460	111	1550	2.9	300	580
C 21 2_	**18.0**	194	1280	4.2	190	480	97	1640	2.7	230	600
C 21 2_	**20.0**	175	1330	3.9	220	500	88	1680	2.5	280	620
C 21 2_	**21.9**	160	1370	3.7	180	510	80	1770	2.4	210	630
C 21 2_	**24.3**	144	1420	3.4	220	530	72	1770	2.1	280	670
C 21 2_	**26.7**	131	1500	3.3	150	540	66	1770	1.9	230	690
C 21 2_	**29.6**	118	1550	3.1	190	560	59	1770	1.7	300	740
C 21 2_	**33.1**	106	1590	2.8	120	580	53	1770	1.6	250	770
C 21 2_	**36.8**	95	1640	2.6	170	600	48	1770	1.4	310	810
C 21 2_	**39.0**	90	1460	2.2	190	650	45	1500	1.1	370	870
C 21 2_	**43.3**	81	1640	2.2	190	650	40	1680	1.1	360	890
C 21 2_	**49.3**	71	1190	1.4	300	770	35	1240	0.74	400	1010
C 21 2_	**54.7**	64	1330	1.4	300	780	32	1370	0.73	400	1030
C 21 2_	**57.0**	61	970	0.99	320	850	31	1020	0.52	410	1110
C 21 2_	**63.3**	55	1110	1.0	310	870	27.6	1150	0.53	410	1120
C 21 3_	**58.8**	60	1590	1.61	200	760	29.8	800	0.41	280	1010
C 21 3_	**65.3**	54	1770	1.62	200	770	26.8	1770	0.81	290	1050
C 21 3_	**74.4**	47	1770	1.42	220	820	23.5	1770	0.71	290	1110
C 21 3_	**82.6**	42	1770	1.28	230	860	21.2	1770	0.64	290	1120
C 21 3_	**90.2**	39	1770	1.17	240	890	19.4	1770	0.59	290	1120
C 21 3_	**100.2**	35	1770	1.05	250	940	17.5	1770	0.53	290	1120
C 21 3_	**110.0**	32	1770	0.96	250	970	15.9	1770	0.48	290	1120
C 21 3_	**122.2**	28.6	1770	0.86	260	1020	14.3	1770	0.43	290	1120
C 21 3_	**136.6**	25.6	1770	0.77	270	1070	12.8	1770	0.39	290	1120
C 21 3_	**151.7**	23.1	1770	0.70	270	1120	11.5	1770	0.35	290	1120
C 21 3_	**160.7**	21.8	1730	0.64	280	1120	10.9	1770	0.33	290	1120
C 21 3_	**178.5**	19.6	1770	0.59	280	1120	9.8	1770	0.30	290	1120
C 21 3_	**203.2**	17.2	1420	0.42	290	1120	8.6	1460	0.21	290	1120
C 21 3_	**225.8**	15.5	1590	0.42	290	1120	7.8	1640	0.22	290	1120
C 21 3_	**235.0**	14.9	1150	0.29	290	1120	7.4	1240	0.16	290	1120
C 21 3_	**261.0**	13.4	1280	0.29	290	1120	6.7	1370	0.16	290	1120

(—) Contact our Technical Service advising radial load data (rotation CW/CCW. orientation. offset)

C 21

1,770 lb·in

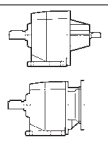


	i	n_1 = **1100** rpm					n_1 = **600** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 21 2_	**2.7**	407	840	5.7	—	380	222	890	3.3	90	480
C 21 2_	**3.7**	297	930	4.6	—	420	162	930	2.5	180	550
C 21 2_	**4.8**	229	930	3.6	40	470	125	930	1.9	270	610
C 21 2_	**6.1**	180	970	2.9	40	510	98	1030	1.7	220	660
C 21 2_	**6.4**	172	1280	3.7	320	500	94	1550	2.4	400	610
C 21 2_	**7.1**	155	1330	3.4	370	520	85	1590	2.2	460	630
C 21 2_	**8.7**	126	1460	3.1	320	550	69	1770	2.0	390	670
C 21 2_	**9.7**	113	1500	2.8	370	570	62	1770	1.8	480	700
C 21 2_	**11.2**	98	1590	2.6	310	590	54	1770	1.6	460	750
C 21 2_	**12.4**	89	1640	2.4	370	620	48	1770	1.4	490	790
C 21 2_	**14.3**	77	1730	2.2	290	640	42	1770	1.2	490	840
C 21 2_	**15.8**	70	1770	2.1	360	670	38	1770	1.1	490	880
C 21 2_	**18.0**	61	1770	1.8	320	710	33	1770	0.99	490	930
C 21 2_	**20.0**	55	1770	1.6	390	750	30	1770	0.89	490	980
C 21 2_	**21.9**	50	1770	1.5	360	780	27.4	1770	0.81	490	1010
C 21 2_	**24.3**	45	1770	1.3	430	820	24.7	1770	0.73	490	1060
C 21 2_	**26.7**	41	1770	1.2	380	850	22.5	1770	0.66	490	1100
C 21 2_	**29.6**	37	1770	1.1	450	900	20.3	1770	0.60	490	1120
C 21 2_	**33.1**	33	1770	0.98	390	940	18.1	1770	0.54	490	1120
C 21 2_	**36.8**	29.9	1770	0.88	450	990	16.3	1770	0.48	490	1120
C 21 2_	**39.0**	28.2	1500	0.71	450	1050	15.4	1500	0.39	490	1120
C 21 2_	**43.3**	25.4	1680	0.71	450	1070	13.9	1680	0.39	490	1120
C 21 2_	**49.3**	22.3	1280	0.48	470	1120	12.2	1370	0.28	490	1120
C 21 2_	**54.7**	20.1	1420	0.48	470	1120	11.0	1500	0.27	490	1120
C 21 2_	**57.0**	19.3	1060	0.34	480	1120	10.5	1110	0.20	490	1120
C 21 2_	**63.3**	17.4	1190	0.35	480	1120	9.5	1240	0.20	490	1120
C 21 3_	**58.8**	18.7	1770	0.56	290	1120	10.2	1770	0.31	290	1120
C 21 3_	**65.3**	16.8	1770	0.51	290	1120	9.2	1770	0.28	290	1120
C 21 3_	**74.4**	14.8	1770	0.45	290	1120	8.1	1770	0.24	290	1120
C 21 3_	**82.6**	13.3	1770	0.40	290	1120	7.3	1770	0.22	290	1120
C 21 3_	**90.2**	12.2	1770	0.37	290	1120	6.7	1770	0.20	290	1120
C 21 3_	**100.2**	11.0	1770	0.33	290	1120	6.0	1770	0.18	290	1120
C 21 3_	**110.0**	10.0	1770	0.30	290	1120	5.5	1770	0.16	290	1120
C 21 3_	**122.2**	9.0	1770	0.27	290	1120	4.9	1770	0.15	290	1120
C 21 3_	**136.6**	8.1	1770	0.24	290	1120	4.4	1770	0.13	290	1120
C 21 3_	**151.7**	7.3	1770	0.22	290	1120	4.0	1770	0.12	290	1120
C 21 3_	**160.7**	6.8	1770	0.21	290	1120	3.7	1770	0.11	290	1120
C 21 3_	**178.5**	6.2	1770	0.19	290	1120	3.4	1770	0.10	290	1120
C 21 3_	**203.2**	5.4	1500	0.14	290	1120	3.0	1590	0.08	290	1120
C 21 3_	**225.8**	4.9	1730	0.14	290	1120	2.7	1770	0.08	290	1120
C 21 3_	**235.0**	4.7	1240	0.10	290	1120	2.6	1330	0.06	290	1120
C 21 3_	**261.0**	4.2	1420	0.10	290	1120	2.3	1460	0.06	290	1120

(—) Contact our Technical Service advising radial load data (rotation CW/CCW. orientation. offset)

C 31

2,660 lb·in

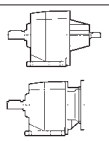


	i	n_1 = **3500** rpm					n_1 = **1750** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 31 2_	**2.9**	1207	930	18.7	—	380	603	1150	11.6	—	490
C 31 2_	**3.7**	946	1060	16.7	—	410	473	1330	10.5	—	520
C 31 2_	**5.0**	700	1190	13.9	—	450	350	1370	8.0	—	580
C 31 2_	**6.3**	556	1330	12.3	—	480	278	1370	6.4	—	650
C 31 2_	**6.5**	538	1370	12.3	420	510	269	1730	7.8	490	650
C 31 2_	**7.2**	486	1420	11.5	420	530	243	1770	7.2	490	670
C 31 2_	**8.4**	417	1500	10.4	420	560	208	1900	6.6	490	700
C 31 2_	**9.3**	376	1550	9.7	430	580	188	1950	6.1	490	730
C 31 2_	**11.1**	315	1680	8.8	420	610	158	2120	5.6	490	760
C 31 2_	**12.3**	285	1730	8.2	430	630	142	2170	5.2	490	800
C 31 2_	**14.0**	250	1810	7.6	420	660	125	2300	4.8	490	830
C 31 2_	**15.6**	224	1900	7.1	430	680	112	2390	4.5	490	860
C 31 2_	**18.1**	193	1990	6.4	420	710	97	2520	4.1	490	900
C 31 2_	**20.1**	174	2080	6.0	430	740	87	2610	3.8	490	940
C 31 2_	**22.6**	155	2170	5.6	420	770	77	2660	3.4	490	970
C 31 2_	**25.1**	139	2210	5.1	420	800	70	2660	3.1	490	1030
C 31 2_	**26.8**	131	2300	5.0	410	810	65	2660	2.9	490	1050
C 31 2_	**29.8**	117	2350	4.6	420	850	59	2660	2.6	490	1110
C 31 2_	**32.5**	108	2430	4.4	400	870	54	2660	2.4	490	1140
C 31 2_	**36.1**	97	2480	4.0	420	910	48	2660	2.2	490	1200
C 31 2_	**40.7**	86	2610	3.7	360	940	43	2660	1.9	490	1240
C 31 2_	**45.3**	77	2660	3.4	420	980	39	2660	1.7	490	1240
C 31 2_	**47.2**	74	2660	3.3	360	990	37	2660	1.6	490	1240
C 31 2_	**52.4**	67	2660	3.0	420	1050	33	2660	1.5	490	1240
C 31 2_	**60.2**	58	1590	1.5	460	1240	29.1	1680	0.82	490	1240
C 31 2_	**66.8**	52	1810	1.6	450	1240	26.2	1900	0.83	490	1240
C 31 3_	**74.3**	47	2430	2.0	180	1240	23.6	2660	1.1	260	1240
C 31 3_	**82.6**	42	2660	1.9	180	1240	21.2	2660	0.96	280	1240
C 31 3_	**93.0**	38	2570	1.7	210	1240	18.8	2660	0.85	290	1240
C 31 3_	**103.3**	34	2660	1.5	220	1240	16.9	2660	0.77	290	1240
C 31 3_	**110.2**	32	2660	1.4	230	1240	15.9	2660	0.72	290	1240
C 31 3_	**122.4**	28.6	2660	1.3	240	1240	14.3	2660	0.65	290	1240
C 31 3_	**133.6**	26.2	2660	1.2	250	1240	13.1	2660	0.59	290	1240
C 31 3_	**148.4**	23.6	2660	1.1	250	1240	11.8	2660	0.54	290	1240
C 31 3_	**167.5**	20.9	2660	0.95	260	1240	10.4	2660	0.47	290	1240
C 31 3_	**186.0**	18.8	2660	0.85	270	1240	9.4	2660	0.43	290	1240
C 31 3_	**194.1**	18.0	2480	0.76	280	1240	9.0	2610	0.40	290	1240
C 31 3_	**215.6**	16.2	2660	0.74	280	1240	8.1	2660	0.37	290	1240
C 31 3_	**247.3**	14.2	1900	0.46	290	1240	7.1	1990	0.24	290	1240
C 31 3_	**274.7**	12.7	2120	0.46	290	1240	6.4	2260	0.25	290	1240

(—) Contact our Technical Service advising radial load data (rotation CW/CCW. orientation. offset)

C 31

2,660 lb·in

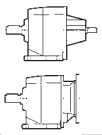


i	n_1 = **1100** rpm					n_1 = **600** rpm				
(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 31 2_ 2.9	379	1330	8.4	—	560	207	1370	4.7	490	720
C 31 2_ 3.7	297	1370	6.8	—	630	162	1550	4.2	490	780
C 31 2_ 5.0	220	1430	5.3	420	700	120	1750	3.5	490	850
C 31 2_ 6.3	175	1580	4.6	390	750	95	1770	2.8	490	940
C 31 2_ 6.5	169	1990	5.6	490	750	92	2430	3.7	490	910
C 31 2_ 7.2	153	2080	5.3	490	780	83	2520	3.5	490	940
C 31 2_ 8.4	131	2210	4.8	490	810	71	2660	3.2	490	990
C 31 2_ 9.3	118	2300	4.5	490	840	65	2660	2.9	490	1040
C 31 2_ 11.1	99	2480	4.1	490	880	54	2660	2.4	490	1120
C 31 2_ 12.3	89	2520	3.8	490	930	49	2660	2.2	490	1180
C 31 2_ 14.0	79	2660	3.5	490	960	43	2660	1.9	490	1240
C 31 2_ 15.6	71	2660	3.1	490	1010	38	2660	1.7	490	1240
C 31 2_ 18.1	61	2660	2.7	490	1070	33	2660	1.5	490	1240
C 31 2_ 20.1	55	2660	2.4	490	1130	29.9	2660	1.3	490	1240
C 31 2_ 22.6	49	2660	2.2	490	1180	26.5	2660	1.2	490	1240
C 31 2_ 25.1	44	2660	1.9	490	1240	23.9	2660	1.1	490	1240
C 31 2_ 26.8	41	2660	1.8	490	1240	22.4	2660	0.99	490	1240
C 31 2_ 29.8	37	2660	1.6	490	1240	20.1	2660	0.89	490	1240
C 31 2_ 32.5	34	2660	1.5	490	1240	18.5	2660	0.82	490	1240
C 31 2_ 36.1	30	2660	1.4	490	1240	16.6	2660	0.74	490	1240
C 31 2_ 40.7	27.0	2660	1.2	490	1240	14.7	2660	0.65	490	1240
C 31 2_ 45.3	24.3	2660	1.1	490	1240	13.2	2660	0.59	490	1240
C 31 2_ 47.2	23.3	2660	1.0	490	1240	12.7	2660	0.56	490	1240
C 31 2_ 52.4	21.0	2660	0.93	490	1240	11.5	2660	0.51	490	1240
C 31 2_ 60.2	18.3	1770	0.54	490	1240	10.0	1810	0.30	490	1240
C 31 2_ 66.8	16.5	1950	0.54	490	1240	9.0	2040	0.31	490	1240
C 31 3_ 74.3	14.8	2660	0.67	290	1240	8.1	2660	0.37	290	1240
C 31 3_ 82.6	13.3	2660	0.60	290	1240	7.3	2660	0.33	290	1240
C 31 3_ 93.0	11.8	2660	0.54	290	1240	6.5	2660	0.29	290	1240
C 31 3_ 103.3	10.6	2660	0.48	290	1240	5.8	2660	0.26	290	1240
C 31 3_ 110.2	10.0	2660	0.45	290	1240	5.4	2660	0.25	290	1240
C 31 3_ 122.4	9.0	2660	0.41	290	1240	4.9	2660	0.22	290	1240
C 31 3_ 133.6	8.2	2660	0.37	290	1240	4.5	2660	0.20	290	1240
C 31 3_ 148.4	7.4	2660	0.34	290	1240	4.0	2660	0.18	290	1240
C 31 3_ 167.5	6.6	2660	0.30	290	1240	3.6	2660	0.16	290	1240
C 31 3_ 186.0	5.9	2660	0.27	290	1240	3.2	2660	0.15	290	1240
C 31 3_ 194.1	5.7	2660	0.26	290	1240	3.1	2660	0.14	290	1240
C 31 3_ 215.6	5.1	2660	0.23	290	1240	2.8	2660	0.13	290	1240
C 31 3_ 247.3	4.4	2080	0.16	290	1240	2.4	2170	0.09	290	1240
C 31 3_ 274.7	4.0	2300	0.16	290	1240	2.2	2430	0.09	290	1240

(—) Contact our Technical Service advising radial load data (rotation CW/CCW. orientation. offset)

C 35

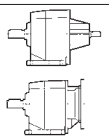
3,980 lb·in



	i	n_1 = **3500** rpm					n_1 = **1750** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	M_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 35 2_	**2.7**	1296	1240	27	150	390	648	1500	16.2	260	500
C 35 2_	**3.5**	1000	1330	22	200	430	500	1640	13.7	300	550
C 35 2_	**4.6**	761	1460	18.6	210	470	380	1770	11.2	330	610
C 35 2_	**5.8**	603	1500	15.1	260	520	302	1770	8.9	450	680
C 35 2_	**6.1**	574	2430	23.3	360	460	287	3050	14.6	450	580
C 35 2_	**6.8**	515	2520	21.7	390	480	257	3140	13.5	500	610
C 35 2_	**7.9**	443	2700	20.0	360	490	222	3360	12.4	470	630
C 35 2_	**8.8**	398	2740	18.2	400	520	199	3360	11.2	510	670
C 35 2_	**10.5**	333	2960	16.5	360	540	167	3360	9.4	510	730
C 35 2_	**11.7**	299	3010	15.0	400	580	150	3360	8.4	530	780
C 35 2_	**13.3**	263	3140	13.8	370	600	132	3360	7.4	530	820
C 35 2_	**14.8**	236	3190	12.6	400	630	118	3360	6.6	550	870
C 35 2_	**17.1**	205	3360	11.5	370	650	102	3360	5.7	540	930
C 35 2_	**19.0**	184	3360	10.3	410	700	92	3360	5.2	560	990
C 35 3_	**20.2**	173	2790	8.2	520	790	87	3500	5.2	650	990
C 35 3_	**22.1**	158	3010	8.1	520	800	79	3810	5.1	650	1010
C 35 3_	**26.2**	134	3140	7.2	520	850	67	3980	4.5	650	1060
C 35 3_	**28.7**	122	3410	7.1	520	860	61	3980	4.1	660	1120
C 35 3_	**34.7**	101	3500	6.0	520	920	50	3980	3.4	660	1220
C 35 3_	**38.1**	92	3850	6.0	520	930	46	3980	3.1	670	1280
C 35 3_	**43.9**	80	3810	5.2	520	1000	40	3980	2.7	670	1360
C 35 3_	**48.2**	73	3980	4.9	520	1030	36	3980	2.5	670	1420
C 35 3_	**56.5**	62	3980	4.2	520	1100	31	3980	2.1	670	1460
C 35 3_	**62.0**	56	3980	3.8	520	1160	28.2	3980	1.9	670	1460
C 35 3_	**70.7**	50	3980	3.4	520	1230	24.8	3980	1.7	670	1460
C 35 3_	**77.6**	45	3980	3.1	530	1290	22.6	3980	1.5	670	1460
C 35 3_	**83.8**	42	3980	2.8	520	1330	20.9	3980	1.4	670	1460
C 35 3_	**91.9**	38	3980	2.6	530	1390	19.0	3980	1.3	670	1460
C 35 3_	**101.6**	34	3980	2.3	530	1450	17.2	3980	1.2	670	1460
C 35 3_	**111.5**	31	3980	2.1	530	1460	15.7	3980	1.1	670	1460
C 35 3_	**127.3**	27.5	3980	1.9	530	1460	13.7	3980	0.93	670	1460
C 35 3_	**139.8**	25.0	3980	1.7	530	1460	12.5	3980	0.85	670	1460
C 35 3_	**147.6**	23.7	3980	1.6	530	1460	11.9	3980	0.81	670	1460
C 35 3_	**162.0**	21.6	3980	1.5	540	1460	10.8	3980	0.73	670	1460
C 35 3_	**188.0**	18.6	3980	1.3	530	1460	9.3	3980	0.63	670	1460
C 35 3_	**206.4**	17.0	3980	1.2	540	1460	8.5	3980	0.58	670	1460
C 35 4_	**232.3**	15.1	3980	1.0	260	1460	7.5	3980	0.52	290	1460
C 35 4_	**255.0**	13.7	3980	0.95	270	1460	6.9	3980	0.48	290	1460
C 35 4_	**290.6**	12.0	3980	0.84	270	1460	6.0	3980	0.42	290	1460
C 35 4_	**318.9**	11.0	3980	0.76	280	1460	5.5	3980	0.38	290	1460
C 35 4_	**344.3**	10.2	3980	0.71	280	1460	5.1	3980	0.35	290	1460
C 35 4_	**377.9**	9.3	3980	0.64	280	1460	4.6	3980	0.32	290	1460
C 35 4_	**417.6**	8.4	3980	0.58	290	1460	4.2	3980	0.29	290	1460
C 35 4_	**458.4**	7.6	3980	0.53	290	1460	3.8	3980	0.26	290	1460
C 35 4_	**523.5**	6.7	3980	0.46	290	1460	3.3	3980	0.23	290	1460
C 35 4_	**574.7**	6.1	3980	0.42	290	1460	3.0	3980	0.21	290	1460
C 35 4_	**606.6**	5.8	3980	0.40	290	1460	2.9	3980	0.20	290	1460
C 35 4_	**665.9**	5.3	3980	0.36	290	1460	2.6	3980	0.18	290	1460
C 35 4_	**773.0**	4.5	3980	0.31	290	1460	2.3	3980	0.16	290	1460
C 35 4_	**848.5**	4.1	3980	0.29	290	1460	2.1	3980	0.14	290	1460

C 35

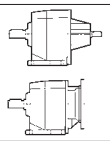
3,980 lb·in



	i	n_1 = **1100** rpm					n_1 = **600** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 35 2_	**2.7**	407	1680	11.4	380	590	222	1770	6.6	670	760
C 35 2_	**3.5**	314	1770	9.3	490	660	171	1770	5.1	670	860
C 35 2_	**4.6**	239	1770	7.1	580	750	130	1770	3.9	670	970
C 35 2_	**5.8**	190	1770	5.6	600	830	103	1770	3.1	670	1070
C 35 2_	**6.1**	180	3360	10.1	570	690	98	3360	5.5	670	930
C 35 2_	**6.8**	162	3360	9.1	600	740	88	3360	5.0	670	990
C 35 2_	**7.9**	139	3360	7.8	600	790	76	3360	4.3	670	1050
C 35 2_	**8.8**	125	3360	7.0	630	840	68	3360	3.8	670	1120
C 35 2_	**10.5**	105	3360	5.9	630	910	57	3360	3.2	670	1200
C 35 2_	**11.7**	94	3360	5.3	650	970	51	3360	2.9	670	1270
C 35 2_	**13.3**	83	3360	4.6	650	1020	45	3360	2.5	670	1330
C 35 2_	**14.8**	74	3360	4.2	670	1080	41	3360	2.3	670	1400
C 35 2_	**17.1**	64	3360	3.6	660	1150	35	3360	2.0	670	1460
C 35 2_	**19.0**	58	3360	3.2	670	1210	32	3360	1.8	670	1460
C 35 3_	**20.2**	54	3980	3.7	670	1160	29.7	3980	2.0	670	1460
C 35 3_	**22.1**	50	3980	3.4	670	1220	27.1	3980	1.8	670	1460
C 35 3_	**26.2**	42	3980	2.9	670	1310	22.9	3980	1.6	670	1460
C 35 3_	**28.7**	38	3980	2.6	670	1380	20.9	3980	1.4	670	1460
C 35 3_	**34.7**	32	3980	2.2	670	1460	17.3	3980	1.2	670	1460
C 35 3_	**38.1**	28.9	3980	2.0	670	1460	15.7	3980	1.1	670	1460
C 35 3_	**43.9**	25.1	3980	1.7	670	1460	13.7	3980	0.93	670	1460
C 35 3_	**48.2**	22.8	3980	1.5	670	1460	12.4	3980	0.85	670	1460
C 35 3_	**56.5**	19.5	3980	1.3	670	1460	10.6	3980	0.72	670	1460
C 35 3_	**62.0**	17.7	3980	1.2	670	1460	9.7	3980	0.66	670	1460
C 35 3_	**70.7**	15.6	3980	1.1	670	1460	8.5	3980	0.58	670	1460
C 35 3_	**77.6**	14.2	3980	0.96	670	1460	7.7	3980	0.52	670	1460
C 35 3_	**83.8**	13.1	3980	0.89	670	1460	7.2	3980	0.49	670	1460
C 35 3_	**91.9**	12.0	3980	0.81	670	1460	6.5	3980	0.44	670	1460
C 35 3_	**101.6**	10.8	3980	0.74	670	1460	5.9	3980	0.40	670	1460
C 35 3_	**111.5**	9.9	3980	0.67	670	1460	5.4	3980	0.37	670	1460
C 35 3_	**127.3**	8.6	3980	0.59	670	1460	4.7	3980	0.32	670	1460
C 35 3_	**139.8**	7.9	3980	0.53	670	1460	4.3	3980	0.29	670	1460
C 35 3_	**147.6**	7.5	3980	0.51	670	1460	4.1	3980	0.28	670	1460
C 35 3_	**162.0**	6.8	3980	0.46	670	1460	3.7	3980	0.25	670	1460
C 35 3_	**188.0**	5.9	3980	0.40	670	1460	3.2	3980	0.22	670	1460
C 35 3_	**206.4**	5.3	3980	0.36	670	1460	2.9	3980	0.20	670	1460
C 35 4_	**232.3**	4.7	3980	0.33	290	1460	2.6	3980	0.18	290	1460
C 35 4_	**255.0**	4.3	3980	0.30	290	1460	2.4	3980	0.16	290	1460
C 35 4_	**290.6**	3.8	3980	0.26	290	1460	2.1	3980	0.14	290	1460
C 35 4_	**318.9**	3.4	3980	0.24	290	1460	1.9	3980	0.13	290	1460
C 35 4_	**344.3**	3.2	3980	0.22	290	1460	1.7	3980	0.12	290	1460
C 35 4_	**377.9**	2.9	3980	0.20	290	1460	1.6	3980	0.11	290	1460
C 35 4_	**417.6**	2.6	3980	0.18	290	1460	1.4	3980	0.10	290	1460
C 35 4_	**458.4**	2.4	3980	0.17	290	1460	1.3	3980	0.09	290	1460
C 35 4_	**523.5**	2.1	3980	0.15	290	1460	1.1	3980	0.08	290	1460
C 35 4_	**574.7**	1.9	3980	0.13	290	1460	1.0	3980	0.07	290	1460
C 35 4_	**606.6**	1.8	3980	0.13	290	1460	0.99	3980	0.07	290	1460
C 35 4_	**665.9**	1.7	3980	0.11	290	1460	0.90	3980	0.06	290	1460
C 35 4_	**773.0**	1.4	3980	0.10	290	1460	0.78	3980	0.05	290	1460
C 35 4_	**848.5**	1.3	3980	0.09	290	1460	0.71	3980	0.05	290	1460

C 41

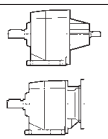
5,310 lb·in



	i	n_1 = **3500** rpm					n_1 = **1750** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 41 2_	**2.7**	1296	2170	47	220	290	648	2170	23	310	460
C 41 2_	**3.6**	972	2260	37	240	350	486	2260	18.3	370	540
C 41 2_	**4.7**	745	2300	29	260	400	372	2300	14.3	450	610
C 41 2_	**6.0**	583	2300	22	290	470	292	2300	11.2	540	700
C 41 2_	**6.4**	547	2430	22	510	580	273	3050	13.9	640	730
C 41 2_	**7.1**	493	2520	21	530	610	246	3140	12.9	670	770
C 41 2_	**8.6**	407	2700	18.4	520	640	203	3410	11.6	650	810
C 41 2_	**9.6**	365	2740	16.7	540	680	182	3450	10.5	680	850
C 41 2_	**11.2**	313	2960	15.4	520	700	156	3720	9.7	650	880
C 41 2_	**12.4**	282	3010	14.2	550	740	141	3760	8.9	690	930
C 41 2_	**14.2**	246	3140	12.9	520	770	123	3940	8.1	670	970
C 41 2_	**15.8**	222	3190	11.8	550	810	111	3980	7.4	700	1020
C 41 2_	**17.8**	197	3360	11.0	520	830	98	4250	7.0	690	1040
C 41 2_	**19.8**	177	3410	10.1	550	870	88	4290	6.3	710	1100
C 41 2_	**22.6**	155	3630	9.4	520	900	77	4430	5.7	700	1150
C 41 2_	**25.0**	140	3670	8.6	550	950	70	4430	5.2	730	1220
C 41 2_	**28.3**	124	3940	8.1	520	960	62	4430	4.6	710	1280
C 41 2_	**31.4**	111	3940	7.3	550	1020	56	4430	4.1	740	1360
C 41 2_	**33.4**	105	4120	7.2	540	1030	52	4430	3.9	720	1390
C 41 2_	**37.1**	94	4160	6.6	550	1080	47	4430	3.5	750	1470
C 41 2_	**44.8**	78	4430	5.8	600	1150	39	4430	2.9	790	1570
C 41 3_	**28.5**	123	3940	8.3	690	970	61	4960	5.2	790	1220
C 41 3_	**31.2**	112	3980	7.6	690	1010	56	5040	4.8	790	1270
C 41 3_	**36.8**	95	4250	6.9	690	1060	48	5310	4.3	790	1340
C 41 3_	**40.3**	87	4290	6.4	700	1110	43	5310	3.9	790	1410
C 41 3_	**47.0**	74	4560	5.8	690	1160	37	5310	3.4	790	1510
C 41 3_	**51.5**	68	4650	5.4	690	1200	34	5310	3.1	790	1570
C 41 3_	**58.7**	60	4870	5.0	690	1250	29.8	5310	2.7	790	1570
C 41 3_	**64.3**	54	4960	4.6	690	1300	27.2	5310	2.5	790	1570
C 41 3_	**74.4**	47	5220	4.2	690	1360	23.5	5310	2.1	790	1570
C 41 3_	**81.5**	43	5310	3.9	690	1420	21.5	5310	1.9	790	1570
C 41 3_	**93.3**	38	5310	3.4	690	1510	18.8	5310	1.7	790	1570
C 41 3_	**102.3**	34	5310	3.1	700	1570	17.1	5310	1.5	790	1570
C 41 3_	**110.1**	32	5310	2.9	690	1570	15.9	5310	1.4	790	1570
C 41 3_	**120.6**	29.0	5310	2.6	700	1570	14.5	5310	1.3	790	1570
C 41 3_	**132.9**	26.3	5310	2.4	690	1570	13.2	5310	1.2	790	1570
C 41 3_	**145.6**	24.0	5310	2.2	700	1570	12.0	5310	1.1	790	1570
C 41 3_	**164.1**	21.3	5310	1.9	700	1570	10.7	5310	0.97	790	1570
C 41 3_	**179.9**	19.5	5310	1.8	700	1570	9.7	5310	0.88	790	1570
C 41 3_	**190.8**	18.3	5310	1.7	700	1570	9.2	5310	0.83	790	1570
C 41 3_	**209.1**	16.7	5310	1.5	700	1570	8.4	5310	0.76	790	1570
C 41 4_	**239.9**	14.6	5310	1.4	330	1570	7.3	5310	0.68	430	1570
C 41 4_	**263.0**	13.3	5310	1.2	340	1570	6.7	5310	0.62	430	1570
C 41 4_	**304.2**	11.5	5310	1.1	340	1570	5.8	5310	0.53	440	1570
C 41 4_	**333.4**	10.5	5310	1.0	340	1570	5.2	5310	0.49	440	1570
C 41 4_	**381.8**	9.2	5310	0.85	350	1570	4.6	5310	0.42	440	1570
C 41 4_	**418.5**	8.4	5310	0.77	350	1570	4.2	5310	0.39	450	1570
C 41 4_	**450.2**	7.8	5310	0.72	350	1570	3.9	5310	0.36	450	1570
C 41 4_	**493.5**	7.1	5310	0.66	350	1570	3.5	5310	0.33	450	1570
C 41 4_	**543.5**	6.4	5310	0.60	350	1570	3.2	5310	0.30	450	1570
C 41 4_	**595.8**	5.9	5310	0.54	360	1570	2.9	5310	0.27	450	1570
C 41 4_	**671.3**	5.2	5310	0.48	360	1570	2.6	5310	0.24	450	1570
C 41 4_	**735.9**	4.8	5310	0.44	360	1570	2.4	5310	0.22	450	1570
C 41 4_	**780.4**	4.5	5310	0.42	360	1570	2.2	5310	0.21	460	1570
C 41 4_	**855.5**	4.1	5310	0.38	360	1570	2.0	5310	0.19	460	1570

C 41

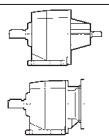
5,310 lb·in



	i	n_1 = **1100** rpm					n_1 = **600** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 41 2_	**2.7**	407	2170	14.8	580	600	222	2170	8.1	790	810
C 41 2_	**3.6**	306	2260	11.5	610	690	167	2260	6.3	790	920
C 41 2_	**4.7**	234	2300	9.0	650	770	128	2300	4.9	790	1030
C 41 2_	**6.0**	183	2300	7.0	690	870	100	2300	3.8	790	1150
C 41 2_	**6.4**	172	3540	10.2	740	850	94	4340	6.8	790	1030
C 41 2_	**7.1**	155	3670	9.5	780	890	85	4430	6.3	790	1080
C 41 2_	**8.6**	128	3940	8.4	760	940	70	4430	5.2	790	1190
C 41 2_	**9.6**	115	3980	7.6	790	990	63	4430	4.6	790	1260
C 41 2_	**11.2**	98	4340	7.1	790	1020	54	4430	4.0	790	1340
C 41 2_	**12.4**	89	4380	6.5	790	1070	48	4430	3.6	790	1420
C 41 2_	**14.2**	77	4430	5.7	790	1140	42	4430	3.1	790	1510
C 41 2_	**15.8**	70	4430	5.2	790	1210	38	4430	2.8	790	1570
C 41 2_	**17.8**	62	4430	4.6	790	1270	34	4430	2.5	790	1570
C 41 2_	**19.8**	56	4430	4.1	790	1340	30	4430	2.2	790	1570
C 41 2_	**22.6**	49	4430	3.6	790	1420	26.5	4430	2.0	790	1570
C 41 2_	**25.0**	44	4430	3.3	790	1500	24.0	4430	1.8	790	1570
C 41 2_	**28.3**	39	4430	2.9	790	1570	21.2	4430	1.6	790	1570
C 41 2_	**31.4**	35	4430	2.6	790	1570	19.1	4430	1.4	790	1570
C 41 2_	**33.4**	33	4430	2.4	790	1570	18.0	4430	1.3	790	1570
C 41 2_	**37.1**	29.6	4430	2.2	790	1570	16.2	4430	1.2	790	1570
C 41 2_	**44.8**	24.6	4430	1.8	790	1570	13.4	4430	0.99	790	1570
C 41 3_	**28.5**	39	5310	3.5	790	1470	21.1	5310	1.9	790	1570
C 41 3_	**31.2**	35	5310	3.2	790	1540	19.2	5310	1.7	790	1570
C 41 3_	**36.8**	29.9	5310	2.7	790	1570	16.3	5310	1.5	790	1570
C 41 3_	**40.3**	27.3	5310	2.5	790	1570	14.9	5310	1.3	790	1570
C 41 3_	**47.0**	23.4	5310	2.1	790	1570	12.8	5310	1.2	790	1570
C 41 3_	**51.5**	21.4	5310	1.9	790	1570	11.7	5310	1.1	790	1570
C 41 3_	**58.7**	18.7	5310	1.7	790	1570	10.2	5310	0.93	790	1570
C 41 3_	**64.3**	17.1	5310	1.5	790	1570	9.3	5310	0.85	790	1570
C 41 3_	**74.4**	14.8	5310	1.3	790	1570	8.1	5310	0.73	790	1570
C 41 3_	**81.5**	13.5	5310	1.2	790	1570	7.4	5310	0.67	790	1570
C 41 3_	**93.3**	11.8	5310	1.1	790	1570	6.4	5310	0.58	790	1570
C 41 3_	**102.3**	10.8	5310	0.97	790	1570	5.9	5310	0.53	790	1570
C 41 3_	**110.1**	10.0	5310	0.91	790	1570	5.4	5310	0.49	790	1570
C 41 3_	**120.6**	9.1	5310	0.83	790	1570	5.0	5310	0.45	790	1570
C 41 3_	**132.9**	8.3	5310	0.75	790	1570	4.5	5310	0.41	790	1570
C 41 3_	**145.6**	7.6	5310	0.68	790	1570	4.1	5310	0.37	790	1570
C 41 3_	**164.1**	6.7	5310	0.61	790	1570	3.7	5310	0.33	790	1570
C 41 3_	**179.9**	6.1	5310	0.55	790	1570	3.3	5310	0.30	790	1570
C 41 3_	**190.8**	5.8	5310	0.52	790	1570	3.1	5310	0.28	790	1570
C 41 3_	**209.1**	5.3	5310	0.48	790	1570	2.9	5310	0.26	790	1570
C 41 4_	**239.9**	4.6	5310	0.42	490	1570	2.5	5310	0.23	490	1570
C 41 4_	**263.0**	4.2	5310	0.39	490	1570	2.3	5310	0.21	490	1570
C 41 4_	**304.2**	3.6	5310	0.33	490	1570	2.0	5310	0.18	490	1570
C 41 4_	**333.4**	3.3	5310	0.31	490	1570	1.8	5310	0.17	490	1570
C 41 4_	**381.8**	2.9	5310	0.27	490	1570	1.6	5310	0.15	490	1570
C 41 4_	**418.5**	2.6	5310	0.24	490	1570	1.4	5310	0.13	490	1570
C 41 4_	**450.2**	2.4	5310	0.23	490	1570	1.3	5310	0.12	490	1570
C 41 4_	**493.5**	2.2	5310	0.21	490	1570	1.2	5310	0.11	490	1570
C 41 4_	**543.5**	2.0	5310	0.19	490	1570	1.1	5310	0.10	490	1570
C 41 4_	**595.8**	1.8	5310	0.17	490	1570	1.0	5310	0.09	490	1570
C 41 4_	**671.3**	1.6	5310	0.15	490	1570	0.89	5310	0.08	490	1570
C 41 4_	**735.9**	1.5	5310	0.14	490	1570	0.82	5310	0.08	490	1570
C 41 4_	**780.4**	1.4	5310	0.13	490	1570	0.77	5310	0.07	490	1570
C 41 4_	**855.5**	1.3	5310	0.12	490	1570	0.70	5310	0.06	490	1570

C 51

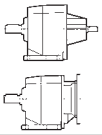
8,850 lb·in



	i	n_1 = **3500** rpm					n_1 = **1750** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 51 2_	**2.6**	1346	2790	63	220	750	673	3540	40	310	940
C 51 2_	**3.3**	1061	3010	53	240	810	530	3720	33	370	1030
C 51 2_	**4.5**	778	3270	42	260	900	389	3850	25	450	1160
C 51 2_	**5.6**	625	3450	36	290	980	313	3850	20	540	1290
C 51 2_	**7.0**	500	4430	37	510	1070	250	5580	23	640	1350
C 51 2_	**7.8**	449	4510	34	530	1110	224	5660	21	670	1400
C 51 2_	**8.8**	398	4820	32	520	1150	199	6060	20	650	1450
C 51 2_	**9.8**	357	4820	29	540	1200	179	6060	18.1	680	1520
C 51 2_	**11.8**	297	5400	27	520	1260	148	6810	16.9	650	1590
C 51 2_	**13.1**	267	5270	24	550	1330	134	6640	14.8	690	1680
C 51 2_	**15.0**	233	5840	23	520	1370	117	7080	13.8	670	1750
C 51 2_	**16.6**	211	5660	19.9	550	1440	105	7040	12.4	700	1830
C 51 2_	**18.9**	185	6150	19.0	520	1490	93	7080	10.9	690	1940
C 51 2_	**21.0**	167	5970	16.6	550	1570	83	7040	9.8	710	2030
C 51 2_	**23.4**	150	6500	16.2	520	1610	75	7080	8.8	700	2130
C 51 2_	**25.9**	135	6330	14.3	550	1700	68	7040	7.9	730	2220
C 51 2_	**29.8**	117	7040	13.8	520	1750	59	7080	6.9	710	2250
C 51 2_	**33.0**	106	6860	12.2	550	1840	53	7040	6.2	740	2250
C 51 2_	**36.4**	96	6640	10.7	540	1950	48	6990	5.6	720	2250
C 51 2_	**40.4**	87	7040	10.2	550	1990	43	7040	5.1	750	2250
C 51 2_	**43.1**	81	6460	8.8	550	2110	41	6810	4.6	740	2250
C 51 2_	**47.8**	73	7080	8.7	550	2140	37	7080	4.3	750	2250
C 51 2_	**51.4**	68	5890	6.7	570	2250	34	6200	3.5	760	2250
C 51 2_	**57.0**	61	6590	6.8	570	2250	31	6950	3.6	760	2250
C 51 3_	**21.8**	161	6370	17.4	650	1560	80	8010	11.0	790	1970
C 51 3_	**23.9**	146	6460	16.1	650	1630	73	8140	10.2	790	2050
C 51 3_	**27.4**	128	6810	14.8	650	1690	64	8580	9.3	790	2130
C 51 3_	**30.1**	116	6900	13.7	660	1760	58	8850	8.8	790	2210
C 51 3_	**37.0**	95	7430	12.0	650	1870	47	8850	7.1	790	2250
C 51 3_	**40.5**	86	7570	11.2	660	1950	43	8850	6.5	790	2250
C 51 3_	**46.7**	75	8010	10.2	660	2030	37	8850	5.7	790	2250
C 51 3_	**51.2**	68	8140	9.5	660	2110	34	8850	5.2	790	2250
C 51 3_	**59.0**	59	8580	8.7	650	2200	29.7	8850	4.5	790	2250
C 51 3_	**64.6**	54	8850	8.2	660	2250	27.1	8850	4.1	790	2250
C 51 3_	**72.9**	48	8850	7.2	660	2250	24.0	8850	3.6	790	2250
C 51 3_	**79.9**	44	8850	6.6	670	2250	21.9	8850	3.3	790	2250
C 51 3_	**93.0**	38	8850	5.7	660	2250	18.8	8850	2.8	790	2250
C 51 3_	**101.8**	34	8850	5.2	670	2250	17.2	8850	2.6	790	2250
C 51 3_	**113.6**	31	8850	4.7	670	2250	15.4	8850	2.3	790	2250
C 51 3_	**124.4**	28.1	8850	4.2	670	2250	14.1	8850	2.1	790	2250
C 51 3_	**134.6**	26.0	8850	3.9	670	2250	13.0	8850	2.0	790	2250
C 51 3_	**147.4**	23.7	8850	3.6	680	2250	11.9	8850	1.8	790	2250
C 51 3_	**160.5**	21.8	8850	3.3	670	2250	10.9	8850	1.6	790	2250
C 51 3_	**175.8**	19.9	8850	3.0	680	2250	10.0	8850	1.5	790	2250
C 51 3_	**197.9**	17.7	8850	2.7	670	2250	8.8	8850	1.3	790	2250
C 51 3_	**216.7**	16.2	8850	2.4	680	2250	8.1	8850	1.2	790	2250
C 51 4_	**240.9**	14.5	8850	2.2	470	2250	7.3	8850	1.1	490	2250
C 51 4_	**263.8**	13.3	8850	2.0	480	2250	6.6	8850	1.0	490	2250
C 51 4_	**297.8**	11.8	8850	1.8	480	2250	5.9	8850	0.91	490	2250
C 51 4_	**326.1**	10.7	8850	1.7	490	2250	5.4	8850	0.83	490	2250
C 51 4_	**379.6**	9.2	8850	1.4	490	2250	4.6	8850	0.71	490	2250
C 51 4_	**415.7**	8.4	8850	1.3	490	2250	4.2	8850	0.65	490	2250
C 51 4_	**463.9**	7.5	8850	1.2	490	2250	3.8	8850	0.58	490	2250
C 51 4_	**508.0**	6.9	8850	1.1	490	2250	3.4	8850	0.53	490	2250
C 51 4_	**549.7**	6.4	8850	0.98	490	2250	3.2	8850	0.49	490	2250
C 51 4_	**602.0**	5.8	8850	0.90	490	2250	2.9	8850	0.45	490	2250
C 51 4_	**655.4**	5.3	8850	0.82	490	2250	2.7	8850	0.41	490	2250
C 51 4_	**717.7**	4.9	8850	0.75	490	2250	2.4	8850	0.38	490	2250
C 51 4_	**808.0**	4.3	8850	0.67	490	2250	2.2	8850	0.33	490	2250
C 51 4_	**884.9**	4.0	8850	0.61	490	2250	2.0	8850	0.31	490	2250

C 51

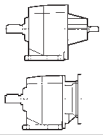
8,850 lb·in



	i	n_1 = **1100** rpm					n_1 = **600** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 51 2_	**2.6**	423	3540	25	580	1150	231	3540	13.6	790	1490
C 51 2_	**3.3**	333	3720	21	610	1260	182	3720	11.3	790	1620
C 51 2_	**4.5**	244	3850	15.7	650	1420	133	3850	8.6	790	1810
C 51 2_	**5.6**	196	3850	12.6	690	1570	107	3850	6.9	790	2000
C 51 2_	**7.0**	157	6460	17.0	740	1560	86	7080	10.1	790	1970
C 51 2_	**7.8**	141	6550	15.4	780	1620	77	7080	9.1	790	2050
C 51 2_	**8.8**	125	7040	14.7	760	1680	68	7080	8.1	790	2180
C 51 2_	**9.8**	112	7080	13.3	790	1750	61	7080	7.2	790	2250
C 51 2_	**11.8**	93	7080	11.0	790	1920	51	7080	6.0	790	2250
C 51 2_	**13.1**	84	7080	9.9	790	2000	46	7080	5.4	790	2250
C 51 2_	**15.0**	73	7080	8.7	790	2120	40	7080	4.7	790	2250
C 51 2_	**16.6**	66	7080	7.8	790	2210	36	7080	4.3	790	2250
C 51 2_	**18.9**	58	7080	6.9	790	2250	32	7080	3.8	790	2250
C 51 2_	**21.0**	52	7080	6.2	790	2250	28.6	7080	3.4	790	2250
C 51 2_	**23.4**	47	7080	5.6	790	2250	25.6	7080	3.0	790	2250
C 51 2_	**25.9**	42	7080	5.0	790	2250	23.2	7080	2.7	790	2250
C 51 2_	**29.8**	37	7080	4.4	790	2250	20.1	7080	2.4	790	2250
C 51 2_	**33.0**	33	7080	3.9	790	2250	18.2	7080	2.1	790	2250
C 51 2_	**36.4**	30	7080	3.6	790	2250	16.5	7080	1.9	790	2250
C 51 2_	**40.4**	27.2	7080	3.2	790	2250	14.9	7080	1.8	790	2250
C 51 2_	**43.1**	25.5	7080	3.0	790	2250	13.9	7080	1.6	790	2250
C 51 2_	**47.8**	23.0	7080	2.7	790	2250	12.6	7080	1.5	790	2250
C 51 2_	**51.4**	21.4	6420	2.3	790	2250	11.7	6680	1.3	790	2250
C 51 2_	**57.0**	19.3	7040	2.3	790	2250	10.5	7040	1.2	790	2250
C 51 3_	**21.8**	50	8850	7.6	790	2250	27.5	8850	4.2	790	2250
C 51 3_	**23.9**	46	8850	6.9	790	2250	25.1	8850	3.8	790	2250
C 51 3_	**27.4**	40	8850	6.1	790	2250	21.9	8850	3.3	790	2250
C 51 3_	**30.1**	37	8850	5.5	790	2250	19.9	8850	3.0	790	2250
C 51 3_	**37.0**	29.7	8850	4.5	790	2250	16.2	8850	2.4	790	2250
C 51 3_	**40.5**	27.2	8850	4.1	790	2250	14.8	8850	2.2	790	2250
C 51 3_	**46.7**	23.6	8850	3.6	790	2250	12.8	8850	1.9	790	2250
C 51 3_	**51.2**	21.5	8850	3.2	790	2250	11.7	8850	1.8	790	2250
C 51 3_	**59.0**	18.6	8850	2.8	790	2250	10.2	8850	1.5	790	2250
C 51 3_	**64.6**	17.0	8850	2.6	790	2250	9.3	8850	1.4	790	2250
C 51 3_	**72.9**	15.1	8850	2.3	790	2250	8.2	8850	1.2	790	2250
C 51 3_	**79.9**	13.8	8850	2.1	790	2250	7.5	8850	1.1	790	2250
C 51 3_	**93.0**	11.8	8850	1.8	790	2250	6.5	8850	0.97	790	2250
C 51 3_	**101.8**	10.8	8850	1.6	790	2250	5.9	8850	0.89	790	2250
C 51 3_	**113.6**	9.7	8850	1.5	790	2250	5.3	8850	0.80	790	2250
C 51 3_	**124.4**	8.8	8850	1.3	790	2250	4.8	8850	0.73	790	2250
C 51 3_	**134.6**	8.2	8850	1.2	790	2250	4.5	8850	0.67	790	2250
C 51 3_	**147.4**	7.5	8850	1.1	790	2250	4.1	8850	0.61	790	2250
C 51 3_	**160.5**	6.9	8850	1.0	790	2250	3.7	8850	0.56	790	2250
C 51 3_	**175.8**	6.3	8850	0.94	790	2250	3.4	8850	0.52	790	2250
C 51 3_	**197.9**	5.6	8850	0.84	790	2250	3.0	8850	0.46	790	2250
C 51 3_	**216.7**	5.1	8850	0.77	790	2250	2.8	8850	0.42	790	2250
C 51 4_	**240.9**	4.6	8850	0.70	490	2250	2.5	8850	0.38	490	2250
C 51 4_	**263.8**	4.2	8850	0.64	490	2250	2.3	8850	0.35	490	2250
C 51 4_	**297.8**	3.7	8850	0.57	490	2250	2.0	8850	0.31	490	2250
C 51 4_	**326.1**	3.4	8850	0.52	490	2250	1.8	8850	0.28	490	2250
C 51 4_	**379.6**	2.9	8850	0.45	490	2250	1.6	8850	0.24	490	2250
C 51 4_	**415.7**	2.6	8850	0.41	490	2250	1.4	8850	0.22	490	2250
C 51 4_	**463.9**	2.4	8850	0.37	490	2250	1.3	8850	0.20	490	2250
C 51 4_	**508.0**	2.2	8850	0.33	490	2250	1.2	8850	0.18	490	2250
C 51 4_	**549.7**	2.0	8850	0.31	490	2250	1.1	8850	0.17	490	2250
C 51 4_	**602.0**	1.8	8850	0.28	490	2250	1.0	8850	0.15	490	2250
C 51 4_	**655.4**	1.7	8850	0.26	490	2250	0.92	8850	0.14	490	2250
C 51 4_	**717.7**	1.5	8850	0.24	490	2250	0.84	8850	0.13	490	2250
C 51 4_	**808.0**	1.4	8850	0.21	490	2250	0.74	8850	0.11	490	2250
C 51 4_	**884.9**	1.2	8850	0.19	490	2250	0.68	8850	0.10	490	2250

C 61

14,200 lb·in

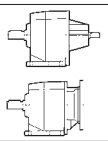


	i	n_1 = **3500** rpm					n_1 = **1750** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 61 2_	**2.8**	1250	3940	82	—	1050	625	4870	51	170	1330
C 61 2_	**3.7**	946	4690	74	—	1110	473	5090	40	390	1480
C 61 2_	**4.6**	761	5090	65	—	1190	380	5310	34	480	1600
C 61 2_	**6.0**	583	5090	50	—	1350	292	5530	27	610	1790
C 61 2_	**6.7**	522	7970	70	500	1260	261	10000	44	640	1590
C 61 2_	**7.5**	467	8850	69	500	1260	233	11100	43	650	1600
C 61 2_	**8.8**	398	8850	59	510	1370	199	11100	37	670	1730
C 61 2_	**9.8**	357	9740	58	540	1380	179	11900	35	750	1760
C 61 2_	**10.9**	321	9290	50	570	1480	161	11900	32	660	1850
C 61 2_	**12.1**	289	10200	49	600	1500	145	11900	29	810	1960
C 61 2_	**14.3**	245	10200	42	550	1620	122	11900	24	810	2120
C 61 2_	**15.9**	220	11100	41	600	1650	110	11900	22	850	2250
C 61 2_	**17.7**	198	10600	35	570	1760	99	11900	19.6	830	2340
C 61 2_	**19.6**	179	11500	34	620	1800	89	11900	17.7	870	2470
C 61 2_	**22.4**	156	11100	29	590	1940	78	11900	15.5	860	2610
C 61 2_	**24.8**	141	11900	28	640	1990	71	11900	14.0	890	2770
C 61 2_	**27.4**	128	11500	25	580	2110	64	11900	12.7	870	2880
C 61 2_	**30.4**	115	11900	23	650	2200	58	11900	11.4	910	3030
C 61 2_	**34.2**	102	10300	17.6	680	2450	51	10800	9.2	920	3260
C 61 2_	**38.0**	92	11300	17.4	680	2500	46	11900	9.2	920	3330
C 61 3_	**26.8**	131	10100	22.5	840	2210	65	12700	14.1	1060	2790
C 61 3_	**29.4**	119	10300	20.9	850	2290	60	13000	13.2	1060	2900
C 61 3_	**33.0**	106	10700	19.4	840	2380	53	13500	12.2	1060	2990
C 61 3_	**36.1**	97	10900	18.0	850	2470	48	13800	11.4	1060	3100
C 61 3_	**43.4**	81	11600	16.0	850	2610	40	14200	9.8	1060	3330
C 61 3_	**47.6**	74	11900	14.9	860	2720	37	14200	8.9	1060	3480
C 61 3_	**53.5**	65	12400	13.8	850	2810	33	14200	7.9	1060	3600
C 61 3_	**58.6**	60	12700	12.9	860	2920	29.9	14200	7.2	1060	3600
C 61 3_	**67.7**	52	13300	11.7	840	3030	25.8	14200	6.3	1060	3600
C 61 3_	**74.2**	47	13600	10.9	850	3170	23.6	14200	5.7	1060	3600
C 61 3_	**83.0**	42	14200	10.2	840	3260	21.1	14200	5.1	1060	3600
C 61 3_	**91.0**	38	14200	9.3	850	3420	19.2	14200	4.7	1060	3600
C 61 3_	**103.6**	34	14200	8.2	850	3600	16.9	14200	4.1	1060	3600
C 61 3_	**113.6**	31	14200	7.5	860	3600	15.4	14200	3.7	1060	3600
C 61 3_	**128.1**	27.3	14200	6.6	850	3600	13.7	14200	3.3	1060	3600
C 61 3_	**140.5**	24.9	14200	6.0	860	3600	12.5	14200	3.0	1060	3600
C 61 3_	**150.0**	23.3	14200	5.7	850	3600	11.7	14200	2.8	1060	3600
C 61 3_	**164.5**	21.3	14200	5.2	870	3600	10.6	14200	2.6	1060	3600
C 61 3_	**178.6**	19.6	14200	4.7	850	3600	9.8	14200	2.4	1060	3600
C 61 3_	**195.8**	17.9	14200	4.3	870	3600	8.9	14200	2.2	1060	3600
C 61 4_	**217.4**	16.1	14200	4.0	680	3600	8.0	14200	2.0	790	3600
C 61 4_	**238.3**	14.7	14200	3.6	690	3600	7.3	14200	1.8	790	3600
C 61 4_	**275.3**	12.7	14200	3.1	700	3600	6.4	14200	1.6	790	3600
C 61 4_	**301.7**	11.6	14200	2.9	700	3600	5.8	14200	1.4	790	3600
C 61 4_	**337.7**	10.4	14200	2.6	710	3600	5.2	14200	1.3	790	3600
C 61 4_	**370.1**	9.5	14200	2.3	710	3600	4.7	14200	1.2	790	3600
C 61 4_	**421.5**	8.3	14200	2.1	720	3600	4.2	14200	1.0	790	3600
C 61 4_	**462.0**	7.6	14200	1.9	720	3600	3.8	14200	0.94	790	3600
C 61 4_	**521.1**	6.7	14200	1.7	730	3600	3.4	14200	0.83	790	3600
C 61 4_	**571.2**	6.1	14200	1.5	730	3600	3.1	14200	0.76	790	3600
C 61 4_	**610.1**	5.7	14200	1.4	730	3600	2.9	14200	0.71	790	3600
C 61 4_	**668.8**	5.2	14200	1.3	740	3600	2.6	14200	0.65	790	3600
C 61 4_	**726.3**	4.8	14200	1.2	740	3600	2.4	14200	0.60	790	3600
C 61 4_	**796.1**	4.4	14200	1.1	740	3600	2.2	14200	0.54	790	3600

(—) Contact our Technical Service advising radial load data (rotation CW/CCW. orientation. offset)

C 61

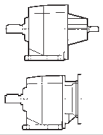
14,200 lb·in



	i	n_1 = **1100** rpm					n_1 = **600** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 61 2_	**2.8**	393	5000	33	640	1610	214	5890	21	910	1980
C 61 2_	**3.7**	297	5530	27	670	1750	162	5890	16.0	1060	2220
C 61 2_	**4.6**	239	5890	24	710	1880	130	5890	12.8	1060	2420
C 61 2_	**6.0**	183	5890	18	930	2120	100	5890	9.8	1060	2700
C 61 2_	**6.7**	164	11900	33	640	1810	90	11900	17.8	1060	2430
C 61 2_	**7.5**	147	11900	29	900	1920	80	11900	15.9	1060	2560
C 61 2_	**8.8**	125	11900	25	910	2080	68	11900	13.6	1060	2740
C 61 2_	**9.8**	112	11900	22	970	2200	61	11900	12.2	1060	2900
C 61 2_	**10.9**	101	11900	20.1	960	2290	55	11900	10.9	1060	3010
C 61 2_	**12.1**	91	11900	18.1	1010	2430	50	11900	9.9	1060	3170
C 61 2_	**14.3**	77	11900	15.3	1000	2610	42	11900	8.3	1060	3390
C 61 2_	**15.9**	69	11900	13.7	1050	2770	38	11900	7.5	1060	3570
C 61 2_	**17.7**	62	11900	12.4	1030	2880	34	11900	6.7	1060	3600
C 61 2_	**19.6**	56	11900	11.2	1060	3030	31	11900	6.1	1060	3600
C 61 2_	**22.4**	49	11900	9.8	1050	3190	26.8	11900	5.3	1060	3600
C 61 2_	**24.8**	44	11900	8.8	1060	3350	24.2	11900	4.8	1060	3600
C 61 2_	**27.4**	40	11900	8.0	1060	3480	21.9	11900	4.4	1060	3600
C 61 2_	**30.4**	36	11900	7.2	1060	3600	19.7	11900	3.9	1060	3600
C 61 2_	**34.2**	32	11200	6.0	1060	3600	17.5	11700	3.4	1060	3600
C 61 2_	**38.0**	28.9	11900	5.8	1060	3600	15.8	11900	3.1	1060	3600
C 61 3_	**26.8**	41	14200	9.9	1060	3260	22.4	14200	5.4	1060	3600
C 61 3_	**29.4**	37	14200	9.1	1060	3420	20.4	14200	4.9	1060	3600
C 61 3_	**33.0**	33	14200	8.1	1060	3570	18.2	14200	4.4	1060	3600
C 61 3_	**36.1**	30	14200	7.4	1060	3600	16.6	14200	4.0	1060	3600
C 61 3_	**43.4**	25.3	14200	6.1	1060	3600	13.8	14200	3.3	1060	3600
C 61 3_	**47.6**	23.1	14200	5.6	1060	3600	12.6	14200	3.1	1060	3600
C 61 3_	**53.5**	20.6	14200	5.0	1060	3600	11.2	14200	2.7	1060	3600
C 61 3_	**58.6**	18.8	14200	4.5	1060	3600	10.2	14200	2.5	1060	3600
C 61 3_	**67.7**	16.2	14200	3.9	1060	3600	8.9	14200	2.1	1060	3600
C 61 3_	**74.2**	14.8	14200	3.6	1060	3600	8.1	14200	2.0	1060	3600
C 61 3_	**83.0**	13.3	14200	3.2	1060	3600	7.2	14200	1.8	1060	3600
C 61 3_	**91.0**	12.1	14200	2.9	1060	3600	6.6	14200	1.6	1060	3600
C 61 3_	**103.6**	10.6	14200	2.6	1060	3600	5.8	14200	1.4	1060	3600
C 61 3_	**113.6**	9.7	14200	2.3	1060	3600	5.3	14200	1.3	1060	3600
C 61 3_	**128.1**	8.6	14200	2.1	1060	3600	4.7	14200	1.1	1060	3600
C 61 3_	**140.5**	7.8	14200	1.9	1060	3600	4.3	14200	1.0	1060	3600
C 61 3_	**150.0**	7.3	14200	1.8	1060	3600	4.0	14200	0.97	1060	3600
C 61 3_	**164.5**	6.7	14200	1.6	1060	3600	3.6	14200	0.88	1060	3600
C 61 3_	**178.6**	6.2	14200	1.5	1060	3600	3.4	14200	0.81	1060	3600
C 61 3_	**195.8**	5.6	14200	1.4	1060	3600	3.1	14200	0.74	1060	3600
C 61 4_	**217.4**	5.1	14200	1.3	790	3600	2.8	14200	0.68	790	3600
C 61 4_	**238.3**	4.6	14200	1.1	790	3600	2.5	14200	0.62	790	3600
C 61 4_	**275.3**	4.0	14200	0.99	790	3600	2.2	14200	0.54	790	3600
C 61 4_	**301.7**	3.6	14200	0.90	790	3600	2.0	14200	0.49	790	3600
C 61 4_	**337.7**	3.3	14200	0.81	790	3600	1.8	14200	0.44	790	3600
C 61 4_	**370.1**	3.0	14200	0.74	790	3600	1.6	14200	0.40	790	3600
C 61 4_	**421.5**	2.6	14200	0.65	790	3600	1.4	14200	0.35	790	3600
C 61 4_	**462.0**	2.4	14200	0.59	790	3600	1.3	14200	0.32	790	3600
C 61 4_	**521.1**	2.1	14200	0.52	790	3600	1.2	14200	0.29	790	3600
C 61 4_	**571.2**	1.9	14200	0.48	790	3600	1.1	14200	0.26	790	3600
C 61 4_	**610.1**	1.8	14200	0.45	790	3600	0.98	14200	0.24	790	3600
C 61 4_	**668.8**	1.6	14200	0.41	790	3600	0.90	14200	0.22	790	3600
C 61 4_	**726.3**	1.5	14200	0.37	790	3600	0.83	14200	0.20	790	3600
C 61 4_	**796.1**	1.4	14200	0.34	790	3600	0.75	14200	0.19	790	3600

C 70

20,400 lb·in

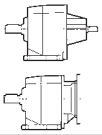


	i	n_1 = **3500** rpm					n_1 = **1750** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 70 2_	**4.6**	761	12400	158	—	1260	380	15000	95	—	1600
C 70 2_	**5.9**	593	13700	136	—	1260	297	16800	83	—	1570
C 70 2_	**6.3**	556	14200	132	450	1480	278	17300	80	590	1850
C 70 2_	**7.5**	467	13700	107	—	1600	233	17300	67	—	1890
C 70 2_	**8.0**	438	15500	113	400	1540	219	18600	68	600	2000
C 70 2_	**9.5**	368	14200	87	170	1860	184	17700	54	140	2230
C 70 2_	**10.2**	343	16800	96	450	1620	172	18600	53	1000	2430
C 70 2_	**11.2**	313	14200	74	250	2100	156	17700	46	240	2540
C 70 2_	**13.0**	269	18100	81	420	1730	135	18600	42	1260	2900
C 70 2_	**14.1**	248	15000	62	250	2280	124	18600	39	290	2790
C 70 2_	**15.3**	229	18600	71	410	1920	114	18600	36	1320	3210
C 70 2_	**16.7**	210	15000	53	350	2560	105	18100	32	530	3210
C 70 2_	**19.3**	181	18600	56	610	2330	91	18600	28	1350	3660
C 70 2_	**22.9**	153	18600	47	710	2640	76	18600	24	1360	4050
C 70 2_	**27.7**	126	18600	39	800	3010	63	18600	19.6	1380	4470
C 70 2_	**34.7**	101	18600	31	890	3460	50	18600	15.7	1390	4990
C 70 3_	**41.3**	85	16800	24	1270	4140	42	20400	14.7	1570	5130
C 70 3_	**44.7**	78	16800	22	1280	4290	39	20400	13.6	1570	5350
C 70 3_	**52.2**	67	18100	21	1280	4410	34	20400	11.7	1570	5620
C 70 3_	**56.5**	62	18100	19.1	1280	4590	31	20400	10.8	1570	5620
C 70 3_	**65.9**	53	19500	17.7	1270	4720	27	20400	9.2	1570	5620
C 70 3_	**71.3**	49	19500	16.3	1280	4920	25	20400	8.5	1570	5620
C 70 3_	**81.4**	43	20400	15.0	1280	5100	21	20400	7.5	1570	5620
C 70 3_	**88.2**	40	20400	13.8	1280	5310	19.8	20400	6.9	1570	5620
C 70 3_	**103.8**	34	20400	11.7	1280	5620	16.9	20400	5.9	1570	5620
C 70 3_	**112.4**	31	20400	10.8	1290	5620	15.6	20400	5.4	1570	5620
C 70 3_	**126.8**	27.6	20400	9.6	1290	5620	13.8	20400	4.8	1570	5620
C 70 3_	**137.4**	25.5	20400	8.9	1290	5620	12.7	20400	4.4	1570	5620
C 70 3_	**150.3**	23.3	20400	8.1	1290	5620	11.6	20400	4.1	1570	5620
C 70 3_	**162.8**	21.5	20400	7.5	1290	5620	10.7	20400	3.7	1570	5620
C 70 3_	**179.2**	19.5	20400	6.8	1290	5620	9.8	20400	3.4	1570	5620
C 70 3_	**194.1**	18.0	20400	6.3	1300	5620	9.0	20400	3.1	1570	5620
C 70 3_	**220.9**	15.8	19900	5.4	1290	5620	7.9	19900	2.7	1570	5620
C 70 3_	**239.3**	14.6	20400	5.1	1300	5620	7.3	20400	2.5	1570	5620
C 70 4_	**251.3**	13.9	20400	5.0	450	5620	7.0	20400	2.5	590	5620
C 70 4_	**272.2**	12.9	20400	4.6	460	5620	6.4	20400	2.3	600	5620
C 70 4_	**317.9**	11.0	20400	3.9	460	5620	5.5	20400	2.0	600	5620
C 70 4_	**344.3**	10.2	20400	3.6	460	5620	5.1	20400	1.8	600	5620
C 70 4_	**409.4**	8.5	20400	3.0	460	5620	4.3	20400	1.5	600	5620
C 70 4_	**443.5**	7.9	20400	2.8	470	5620	3.9	20400	1.4	610	5620
C 70 4_	**512.0**	6.8	20400	2.4	470	5620	3.4	20400	1.2	600	5620
C 70 4_	**554.7**	6.3	20400	2.2	470	5620	3.2	20400	1.1	610	5620
C 70 4_	**606.8**	5.8	20400	2.1	470	5620	2.9	20400	1.0	610	5620
C 70 4_	**657.3**	5.3	20400	1.9	470	5620	2.7	20400	0.95	610	5620
C 70 4_	**736.0**	4.8	20400	1.7	470	5620	2.4	20400	0.85	610	5620
C 70 4_	**797.3**	4.4	20400	1.6	470	5620	2.2	20400	0.78	610	5620
C 70 4_	**922.6**	3.8	20400	1.3	470	5620	1.9	20400	0.67	610	5620
C 70 4_	**999.5**	3.5	20400	1.2	470	5620	1.8	20400	0.62	610	5620
C 70 4_	**1069.0**	3.3	20400	1.2	470	5620	1.6	20400	0.58	610	5620
C 70 4_	**1158.0**	3.0	20400	1.1	470	5620	1.5	20400	0.54	630	5620
C 70 4_	**1362.0**	2.6	20400	0.91	470	5620	1.3	20400	0.46	630	5620
C 70 4_	**1476.0**	2.4	20400	0.84	470	5620	1.2	20400	0.42	630	5620

(—) Contact our Technical Service advising radial load data (rotation CW/CCW. orientation. offset)

C 70

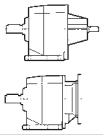
20,400 lb·in



	i	n_1 = **1100** rpm					n_1 = **600** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 70 2_	**4.6**	239	15900	63	150	2100	130	15900	35	1240	3120
C 70 2_	**5.9**	186	17300	54	130	2240	102	19000	32	650	3010
C 70 2_	**6.3**	175	18600	54	960	2340	95	18600	30	1570	3480
C 70 2_	**7.5**	147	18600	46	250	2430	80	19000	25	1210	3510
C 70 2_	**8.0**	138	18600	43	1300	2810	75	18600	23	1570	4000
C 70 2_	**9.5**	116	19000	37	480	2790	63	19000	20	1570	4070
C 70 2_	**10.2**	108	18600	33	1540	3280	59	18600	18.3	1570	4540
C 70 2_	**11.2**	98	19000	31	590	3150	54	19000	17.0	1570	4450
C 70 2_	**13.0**	85	18600	26	1570	3800	46	18600	14.3	1570	5130
C 70 2_	**14.1**	78	19000	25	880	3600	43	19000	13.5	1570	5010
C 70 2_	**15.3**	72	18600	22	1570	4140	39	18600	12.2	1570	5530
C 70 2_	**16.7**	66	18100	19.9	1230	4160	36	18100	10.9	1570	5620
C 70 2_	**19.3**	57	18600	17.7	1570	4650	31	18600	9.7	1570	5620
C 70 2_	**22.9**	48	18600	14.9	1570	5060	26	18600	8.1	1570	5620
C 70 2_	**27.7**	40	18600	12.3	1570	5530	22	18600	6.7	1570	5620
C 70 2_	**34.7**	32	18600	9.8	1570	5620	17.3	18600	5.4	1570	5620
C 70 3_	**41.3**	27	20400	9.3	1570	5620	14.5	20400	5.1	1570	5620
C 70 3_	**44.7**	25	20400	8.6	1570	5620	13.4	20400	4.7	1570	5620
C 70 3_	**52.2**	21	20400	7.3	1570	5620	11.5	20400	4.0	1570	5620
C 70 3_	**56.5**	19.5	20400	6.8	1570	5620	10.6	20400	3.7	1570	5620
C 70 3_	**65.9**	16.7	20400	5.8	1570	5620	9.1	20400	3.2	1570	5620
C 70 3_	**71.3**	15.4	20400	5.4	1570	5620	8.4	20400	2.9	1570	5620
C 70 3_	**81.4**	13.5	20400	4.7	1570	5620	7.4	20400	2.6	1570	5620
C 70 3_	**88.2**	12.5	20400	4.3	1570	5620	6.8	20400	2.4	1570	5620
C 70 3_	**103.8**	10.6	20400	3.7	1570	5620	5.8	20400	2.0	1570	5620
C 70 3_	**112.4**	9.8	20400	3.4	1570	5620	5.3	20400	1.9	1570	5620
C 70 3_	**126.8**	8.7	20400	3.0	1570	5620	4.7	20400	1.6	1570	5620
C 70 3_	**137.4**	8.0	20400	2.8	1570	5620	4.4	20400	1.5	1570	5620
C 70 3_	**150.3**	7.3	20400	2.5	1570	5620	4.0	20400	1.4	1570	5620
C 70 3_	**162.8**	6.8	20400	2.4	1570	5620	3.7	20400	1.3	1570	5620
C 70 3_	**179.2**	6.1	20400	2.1	1570	5620	3.3	20400	1.2	1570	5620
C 70 3_	**194.1**	5.7	20400	2.0	1570	5620	3.1	20400	1.1	1570	5620
C 70 3_	**220.9**	5.0	20400	1.7	1570	5620	2.7	19900	0.92	1570	5620
C 70 3_	**239.3**	4.6	20400	1.6	1570	5620	2.5	20400	0.87	1570	5620
C 70 4_	**251.3**	4.4	20400	1.6	450	5620	2.4	20400	0.85	590	5620
C 70 4_	**272.2**	4.0	20400	1.4	460	5620	2.2	20400	0.78	600	5620
C 70 4_	**317.9**	3.5	20400	1.2	460	5620	1.9	20400	0.67	600	5620
C 70 4_	**344.3**	3.2	20400	1.1	460	5620	1.7	20400	0.62	600	5620
C 70 4_	**409.4**	2.7	20400	0.96	460	5620	1.5	20400	0.52	600	5620
C 70 4_	**443.5**	2.5	20400	0.88	470	5620	1.4	20400	0.48	610	5620
C 70 4_	**512.0**	2.1	20400	0.76	470	5620	1.2	20400	0.42	600	5620
C 70 4_	**554.7**	2.0	20400	0.71	470	5620	1.1	20400	0.38	610	5620
C 70 4_	**606.8**	1.8	20400	0.64	470	5620	0.99	20400	0.35	610	5620
C 70 4_	**657.3**	1.7	20400	0.60	470	5620	0.91	20400	0.32	610	5620
C 70 4_	**736.0**	1.5	20400	0.53	470	5620	0.82	20400	0.29	610	5620
C 70 4_	**797.3**	1.4	20400	0.49	470	5620	0.75	20400	0.27	610	5620
C 70 4_	**922.6**	1.2	20400	0.42	470	5620	0.65	20400	0.23	610	5620
C 70 4_	**999.5**	1.1	20400	0.39	470	5620	0.60	20400	0.21	610	5620
C 70 4_	**1069.0**	1.0	20400	0.37	470	5620	0.56	20400	0.20	610	5620
C 70 4_	**1158.0**	0.95	20400	0.34	470	5620	0.52	20400	0.18	630	5620
C 70 4_	**1362.0**	0.81	20400	0.29	470	5620	0.44	20400	0.16	630	5620
C 70 4_	**1476.0**	0.75	20400	0.27	470	5620	0.41	20400	0.14	630	5620

C 80

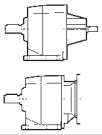
35,400 lb·in



	i	n_1 = **3500** rpm					n_1 = **1750** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 80 2_	**5.6**	625	21200	221	80	2450	312.5	27400	143	160	2770
C 80 2_	**6.1**	574	21700	208	200	2470	286.9	27900	134	310	2860
C 80 2_	**7.0**	500	23500	196	80	2470	250.0	29600	124	200	2900
C 80 2_	**7.6**	461	23900	184	200	2540	230.3	30100	116	360	2990
C 80 2_	**8.9**	393	24800	163	90	2720	196.6	31000	102	250	3260
C 80 2_	**9.6**	365	26600	162	120	2540	182.3	32700	100	310	3120
C 80 2_	**11.1**	315	24800	131	250	3190	157.7	31000	82	440	3840
C 80 2_	**12.0**	292	26600	130	270	3030	145.8	32700	80	490	3730
C 80 2_	**13.8**	254	24800	105	320	3690	126.8	31000	66	520	4450
C 80 2_	**14.9**	235	26600	104	340	3550	117.4	32700	64	580	4340
C 80 2_	**16.7**	210	24800	87	410	4160	104.8	31000	54	640	5010
C 80 2_	**18.1**	193	26600	86	430	4020	96.7	32700	53	690	4950
C 80 2_	**20.5**	171	25200	72	450	4610	85.4	31400	45	690	5580
C 80 2_	**22.2**	158	26600	70	500	4560	78.8	32700	43	760	5600
C 80 2_	**24.0**	146	25200	61	470	5040	72.9	31400	38	710	6070
C 80 2_	**25.9**	135	26600	60	520	5010	67.6	32700	37	790	6110
C 80 2_	**31.3**	112	26600	50	560	5550	55.9	32700	31	840	6740
C 80 2_	**39.1**	90	22100	33	860	6970	44.8	28300	21	1140	7870
C 80 3_	**43.5**	80	27400	38	1260	6450	40.2	33600	23	1570	7820
C 80 3_	**47.4**	74	27400	35	1270	6740	36.9	33600	21	1570	7870
C 80 3_	**57.3**	61	30100	31	1260	6860	30.5	35400	18.4	1570	7870
C 80 3_	**62.5**	56	30100	29	1270	7150	28.0	35400	16.9	1570	7870
C 80 3_	**70.5**	50	32300	27	1260	7240	24.8	35400	15.0	1570	7870
C 80 3_	**76.9**	46	31900	25	1270	7620	22.8	35400	13.7	1570	7870
C 80 3_	**89.3**	39	34500	23	1260	7800	19.6	35400	11.8	1570	7870
C 80 3_	**97.4**	36	34500	21	1270	7870	18.0	35400	10.9	1570	7870
C 80 3_	**109.5**	32	35400	19.3	1270	7870	16.0	35400	9.7	1570	7870
C 80 3_	**119.5**	29.3	35400	17.7	1280	7870	14.6	35400	8.8	1570	7870
C 80 3_	**136.7**	25.6	35400	15.5	1270	7870	12.8	35400	7.7	1570	7870
C 80 3_	**149.1**	23.5	35400	14.2	1280	7870	11.7	35400	7.1	1570	7870
C 80 3_	**169.0**	20.7	35400	12.5	1280	7870	10.4	35400	6.3	1570	7870
C 80 3_	**184.4**	19.0	35400	11.5	1290	7870	9.5	35400	5.7	1570	7870
C 80 3_	**197.9**	17.7	33600	10.1	1280	7870	8.8	33600	5.1	1570	7870
C 80 3_	**215.9**	16.2	35400	9.8	1290	7870	8.1	35400	4.9	1570	7870
C 80 4_	**261.9**	13.4	35400	8.2	420	7870	6.7	35400	4.1	560	7870
C 80 4_	**285.7**	12.3	35400	7.6	420	7870	6.1	35400	3.8	560	7870
C 80 4_	**334.3**	10.5	35400	6.5	420	7870	5.2	35400	3.2	560	7870
C 80 4_	**364.7**	9.6	35400	5.9	430	7870	4.8	35400	3.0	570	7870
C 80 4_	**417.5**	8.4	35400	5.2	430	7870	4.2	35400	2.6	570	7870
C 80 4_	**455.4**	7.7	35400	4.7	440	7870	3.8	35400	2.4	580	7870
C 80 4_	**529.3**	6.6	35400	4.1	440	7870	3.3	35400	2.0	570	7870
C 80 4_	**577.4**	6.1	35400	3.7	440	7870	3.0	35400	1.9	580	7870
C 80 4_	**664.3**	5.3	35400	3.3	440	7870	2.6	35400	1.6	580	7870
C 80 4_	**724.7**	4.8	35400	3.0	450	7870	2.4	35400	1.5	590	7870
C 80 4_	**783.4**	4.5	35400	2.8	440	7870	2.2	35400	1.4	580	7870
C 80 4_	**854.6**	4.1	35400	2.5	450	7870	2.0	35400	1.3	590	7870
C 80 4_	**945.7**	3.7	35400	2.3	450	7870	1.9	35400	1.1	580	7870
C 80 4_	**1032.0**	3.4	35400	2.1	450	7870	1.7	35400	1.0	590	7870
C 80 4_	**1168.0**	3.0	35400	1.8	450	7870	1.5	35400	0.92	580	7870
C 80 4_	**1274.0**	2.7	35400	1.7	450	7870	1.4	35400	0.85	590	7870
C 80 4_	**1358.0**	2.6	35400	1.6	450	7870	1.3	35400	0.80	590	7870
C 80 4_	**1481.0**	2.4	35400	1.5	460	7870	1.2	35400	0.73	590	7870

C 80

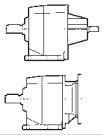
35,400 lb·in



	i	n_1 = **1100** rpm					n_1 = **600** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 80 2_	**5.6**	196	31000	102	330	3240	107.1	31000	55	1120	4860
C 80 2_	**6.1**	180	31900	96	470	3240	98.4	32700	54	1180	4770
C 80 2_	**7.0**	157	31000	81	590	3820	85.7	31000	44	1380	5530
C 80 2_	**7.6**	145	32300	78	690	3780	78.9	32300	43	1470	5530
C 80 2_	**8.9**	124	31000	64	750	4470	67.4	31000	35	1530	6250
C 80 2_	**9.6**	115	32700	63	810	4360	62.5	32700	34	1570	6230
C 80 2_	**11.1**	99	31000	51	940	5130	54.1	31000	28	1570	7010
C 80 2_	**12.0**	92	32700	50	990	5060	50.0	32700	27	1570	7010
C 80 2_	**13.8**	80	31000	41	1020	5780	43.5	31000	23	1570	7800
C 80 2_	**14.9**	74	32700	40	1070	5730	40.3	32700	22	1570	7800
C 80 2_	**16.7**	66	31000	34	1140	6410	35.9	31000	18.6	1570	7870
C 80 2_	**18.1**	61	32700	33	1190	6380	33.1	32700	18.1	1570	7870
C 80 2_	**20.5**	54	31400	28	1180	7060	29.3	31400	15.3	1570	7870
C 80 2_	**22.2**	50	32700	27	1260	7100	27.0	32700	14.8	1570	7870
C 80 2_	**24.0**	46	31400	24	1210	7600	25.0	31400	13.1	1570	7870
C 80 2_	**25.9**	42	32700	23	1290	7690	23.2	32700	12.7	1570	7870
C 80 2_	**31.3**	35	32700	19.2	1340	7870	19.2	32700	10.5	1570	7870
C 80 2_	**39.1**	28	28300	13.3	1570	7870	15.3	28300	7.3	1570	7870
C 80 3_	**43.5**	25	35400	15.3	1570	7870	13.8	35400	8.3	1570	7870
C 80 3_	**47.4**	23	35400	14.0	1570	7870	12.7	35400	7.6	1570	7870
C 80 3_	**57.3**	19.2	35400	11.6	1570	7870	10.5	35400	6.3	1570	7870
C 80 3_	**62.5**	17.6	35400	10.6	1570	7870	9.6	35400	5.8	1570	7870
C 80 3_	**70.5**	15.6	35400	9.4	1570	7870	8.5	35400	5.1	1570	7870
C 80 3_	**76.9**	14.3	35400	8.6	1570	7870	7.8	35400	4.7	1570	7870
C 80 3_	**89.3**	12.3	35400	7.4	1570	7870	6.7	35400	4.1	1570	7870
C 80 3_	**97.4**	11.3	35400	6.8	1570	7870	6.2	35400	3.7	1570	7870
C 80 3_	**109.5**	10.0	35400	6.1	1570	7870	5.5	35400	3.3	1570	7870
C 80 3_	**119.5**	9.2	35400	5.6	1570	7870	5.0	35400	3.0	1570	7870
C 80 3_	**136.7**	8.0	35400	4.9	1570	7870	4.4	35400	2.7	1570	7870
C 80 3_	**149.1**	7.4	35400	4.5	1570	7870	4.0	35400	2.4	1570	7870
C 80 3_	**169.0**	6.5	35400	3.9	1570	7870	3.6	35400	2.1	1570	7870
C 80 3_	**184.4**	6.0	35400	3.6	1570	7870	3.3	35400	2.0	1570	7870
C 80 3_	**197.9**	5.6	33600	3.2	1570	7870	3.0	33600	1.7	1570	7870
C 80 3_	**215.9**	5.1	35400	3.1	1570	7870	2.8	35400	1.7	1570	7870
C 80 4_	**261.9**	4.2	35400	2.6	660	7870	2.3	35400	1.4	790	7870
C 80 4_	**285.7**	3.9	35400	2.4	670	7870	2.1	35400	1.3	790	7870
C 80 4_	**334.3**	3.3	35400	2.0	670	7870	1.8	35400	1.1	790	7870
C 80 4_	**364.7**	3.0	35400	1.9	680	7870	1.6	35400	1.0	790	7870
C 80 4_	**417.5**	2.6	35400	1.6	670	7870	1.4	35400	0.89	790	7870
C 80 4_	**455.4**	2.4	35400	1.5	690	7870	1.3	35400	0.81	790	7870
C 80 4_	**529.3**	2.1	35400	1.3	680	7870	1.1	35400	0.70	790	7870
C 80 4_	**577.4**	1.9	35400	1.2	690	7870	1.0	35400	0.64	790	7870
C 80 4_	**664.3**	1.7	35400	1.0	690	7870	0.9	35400	0.56	790	7870
C 80 4_	**724.7**	1.5	35400	0.94	690	7870	0.8	35400	0.51	790	7870
C 80 4_	**783.4**	1.4	35400	0.87	690	7870	0.8	35400	0.47	790	7870
C 80 4_	**854.6**	1.3	35400	0.79	700	7870	0.7	35400	0.43	790	7870
C 80 4_	**945.7**	1.2	35400	0.72	690	7870	0.6	35400	0.39	790	7870
C 80 4_	**1032.0**	1.1	35400	0.66	700	7870	0.6	35400	0.36	790	7870
C 80 4_	**1168.0**	0.94	35400	0.58	690	7870	0.5	35400	0.32	790	7870
C 80 4_	**1274.0**	0.86	35400	0.53	700	7870	0.5	35400	0.29	790	7870
C 80 4_	**1358.0**	0.81	35400	0.50	690	7870	0.4	35400	0.27	790	7870
C 80 4_	**1481.0**	0.74	35400	0.46	700	7870	0.4	35400	0.25	790	7870

C 90

63,700 lb·in

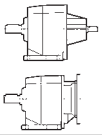


i	n_1 = **3500** rpm					n_1 = **1750** rpm				
(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 90 2_ 5.2	673	31000	348	380	2880	337	38100	214	490	3550
C 90 2_ 5.6	625	31900	333	730	2880	313	38900	203	960	3600
C 90 2_ 6.8	515	34100	293	420	3010	257	42000	181	500	3690
C 90 2_ 7.3	479	35000	280	780	3030	240	42900	172	980	3750
C 90 2_ 8.3	422	36700	258	450	3110	211	45100	159	570	3840
C 90 2_ 9.0	389	37600	244	820	3140	194	46000	149	1060	3930
C 90 2_ 10.4	337	39800	224	220	3190	168	49100	138	260	3910
C 90 2_ 11.2	313	40700	212	620	3240	156	50000	130	780	4000
C 90 2_ 12.8	273	42900	196	130	3300	137	52700	120	190	4090
C 90 2_ 13.9	252	43400	183	610	3450	126	53500	112	720	4200
C 90 2_ 16.0	219	44700	163	160	3770	109	54900	100	210	4680
C 90 2_ 17.3	202	46900	158	380	3570	101	57500	97	490	4450
C 90 2_ 18.7	187	44700	140	260	4410	94	54900	86	340	5460
C 90 2_ 20.2	173	47800	138	350	4030	87	58400	84	490	5060
C 90 2_ 22.9	153	44700	114	470	5020	76	54900	70	610	6200
C 90 2_ 24.8	141	47800	113	560	4920	71	58400	69	750	6140
C 90 2_ 27.2	129	39800	86	1380	5850	64	48700	52	1760	7240
C 90 2_ 29.4	119	42500	84	1470	5840	60	52200	52	1830	7190
C 90 2_ 35.1	100	38900	65	1820	6610	50	47800	40	2500	8160
C 90 3_ 39.4	89	56200	85	2430	5370	44	62800	48	3080	7400
C 90 3_ 43.0	81	57500	80	2430	5550	41	63700	44	3100	7640
C 90 3_ 50.3	70	60200	71	2430	5850	35	62800	37	3100	8320
C 90 3_ 54.9	64	62000	67	2450	5960	32	63700	35	3120	8610
C 90 3_ 59.2	59	62800	63	2430	6230	29.6	62800	32	3120	8990
C 90 3_ 64.6	54	63700	59	2450	6540	27.1	63700	29	3150	9280
C 90 3_ 74.4	47	62800	50	2450	7170	23.5	62800	25	3150	9980
C 90 3_ 81.2	43	63700	47	2450	7420	21.6	63700	23	3170	10300
C 90 3_ 88.2	40	62800	43	2470	7820	19.8	62800	21	3150	10800
C 90 3_ 96.2	36	63700	40	2470	8070	18.2	63700	19.8	3170	11100
C 90 3_ 107.0	33	62800	35	2470	8570	16.4	62800	17.5	3170	11700
C 90 3_ 116.7	30	63700	33	2470	8860	15.0	63700	16.3	3170	12100
C 90 3_ 134.1	26.1	62800	28	2470	9530	13.0	62800	14.0	3170	12900
C 90 3_ 146.3	23.9	63700	26	2470	9850	12.0	63700	13.0	3190	13300
C 90 3_ 157.8	22.2	62800	24	2470	10300	11.1	62800	11.9	3170	13500
C 90 3_ 172.1	20.3	63700	22	2470	10600	10.2	63700	11.1	3190	13500
C 90 4_ 212.4	16.5	63700	18.3	—	13500	8.2	63700	9.2	270	13500
C 90 4_ 231.7	15.1	63700	16.8	—	13500	7.6	63700	8.4	350	13500
C 90 4_ 268.5	13.0	63700	14.5	—	13500	6.5	63700	7.2	350	13500
C 90 4_ 292.9	11.9	63700	13.3	—	13500	6.0	63700	6.6	420	13500
C 90 4_ 339.0	10.3	63700	11.5	—	13500	5.2	63700	5.7	390	13500
C 90 4_ 369.8	9.5	63700	10.5	—	13500	4.7	63700	5.3	460	13500
C 90 4_ 419.0	8.4	63700	9.3	—	13500	4.2	63700	4.6	420	13500
C 90 4_ 457.1	7.7	63700	8.5	—	13500	3.8	63700	4.3	500	13500
C 90 4_ 534.2	6.6	63700	7.3	—	13500	3.3	63700	3.6	470	13500
C 90 4_ 582.8	6.0	63700	6.7	—	13500	3.0	63700	3.3	510	13500
C 90 4_ 652.8	5.4	63700	6.0	—	13500	2.7	63700	3.0	490	13500
C 90 4_ 712.2	4.9	63700	5.5	—	13500	2.5	63700	2.7	510	13500
C 90 4_ 773.6	4.5	63700	5.0	—	13500	2.3	63700	2.5	510	13500
C 90 4_ 844.0	4.1	63700	4.6	—	13500	2.1	63700	2.3	520	13500
C 90 4_ 922.3	3.8	63700	4.2	—	13500	1.9	63700	2.1	510	13500
C 90 4_ 1006.0	3.5	63700	3.9	—	13500	1.7	63700	1.9	520	13500
C 90 4_ 1137.0	3.1	63700	3.4	—	13500	1.5	63700	1.7	510	13500
C 90 4_ 1240.0	2.8	63700	3.1	—	13500	1.4	63700	1.6	500	13500

(—) Contact our Technical Service advising radial load data (rotation CW/CCW. orientation. offset)

C 90

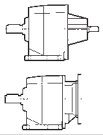
63,700 lb·in



	i	n_1 = **1100** rpm					n_1 = **600** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 90 2_	**5.2**	212	43400	153	580	4090	115	51800	100	680	4860
C 90 2_	**5.6**	196	44700	147	1040	4070	107	53100	95	1290	4900
C 90 2_	**6.8**	162	48200	130	520	4160	88	54900	81	1150	5530
C 90 2_	**7.3**	151	49100	124	1100	4250	82	58000	80	1430	5220
C 90 2_	**8.3**	133	51800	115	610	4340	72	54900	66	1990	6250
C 90 2_	**9.0**	122	52700	108	1190	4450	67	58400	65	2170	6200
C 90 2_	**10.4**	106	54900	97	510	4720	58	54900	53	2470	6970
C 90 2_	**11.2**	98	57100	94	890	4590	54	58400	52	2630	6920
C 90 2_	**12.8**	86	55300	79	1010	5690	47	55300	43	2970	7670
C 90 2_	**13.9**	79	58000	77	1310	5490	43	58000	42	3280	7710
C 90 2_	**16.0**	69	54900	63	1480	6450	38	54900	34	3370	8540
C 90 2_	**17.3**	64	58000	62	1690	6430	35	58000	34	3370	8570
C 90 2_	**18.7**	59	54900	54	1600	6970	32	54900	29	3370	9150
C 90 2_	**20.2**	54	58400	53	1750	6920	29.7	58400	29	3370	9150
C 90 2_	**22.9**	48	54900	44	1870	7690	26.2	54900	24	3370	10000
C 90 2_	**24.8**	44	58400	43	2010	7670	24.2	58400	24	3370	10000
C 90 2_	**27.2**	40	48700	33	3010	8810	22.1	48700	17.9	3370	11200
C 90 2_	**29.4**	37	52200	33	3080	8790	20.4	52200	17.8	3370	11300
C 90 2_	**35.1**	31	47800	25	3170	9850	17.1	47800	13.6	3370	12500
C 90 3_	**39.4**	27.9	62800	30	3370	9130	15.2	62800	16.3	3370	9130
C 90 3_	**43.0**	25.6	63700	28	3370	9440	14.0	63700	15.2	3370	9440
C 90 3_	**50.3**	21.9	62800	23	3370	10200	11.9	62800	12.8	3370	10200
C 90 3_	**54.9**	20.0	63700	22	3370	10500	10.9	63700	11.9	3370	10500
C 90 3_	**59.2**	18.6	62800	19.9	3370	11000	10.1	62800	10.9	3370	11000
C 90 3_	**64.6**	17.0	63700	18.5	3370	11300	9.3	63700	10.1	3370	11300
C 90 3_	**74.4**	14.8	62800	15.8	3370	12100	8.1	62800	8.6	3370	12100
C 90 3_	**81.2**	13.5	63700	14.7	3370	12500	7.4	63700	8.0	3370	12500
C 90 3_	**88.2**	12.5	62800	13.4	3370	13000	6.8	62800	7.3	3370	13000
C 90 3_	**96.2**	11.4	63700	12.4	3370	13400	6.2	63700	6.8	3370	13400
C 90 3_	**107.0**	10.3	62800	11.0	3370	13500	5.6	62800	6.0	3370	13500
C 90 3_	**116.7**	9.4	63700	10.2	3370	13500	5.1	63700	5.6	3370	13500
C 90 3_	**134.1**	8.2	62800	8.8	3370	13500	4.5	62800	4.8	3370	13500
C 90 3_	**146.3**	7.5	63700	8.2	3370	13500	4.1	63700	4.5	3370	13500
C 90 3_	**157.8**	7.0	62800	7.5	3370	13500	3.8	62800	4.1	3370	13500
C 90 3_	**172.1**	6.4	63700	6.9	3370	13500	3.5	63700	3.8	3370	13500
C 90 4_	**212.4**	5.2	63700	5.8	470	13500	2.8	63700	3.1	720	13500
C 90 4_	**231.7**	4.7	63700	5.3	550	13500	2.6	63700	2.9	740	13500
C 90 4_	**268.5**	4.1	63700	4.5	550	13500	2.2	63700	2.5	740	13500
C 90 4_	**292.9**	3.8	63700	4.2	590	13500	2.0	63700	2.3	760	13500
C 90 4_	**339.0**	3.2	63700	3.6	580	13500	1.8	63700	2.0	750	13500
C 90 4_	**369.8**	3.0	63700	3.3	600	13500	1.6	63700	1.8	770	13500
C 90 4_	**419.0**	2.6	63700	2.9	590	13500	1.4	63700	1.6	760	13500
C 90 4_	**457.1**	2.4	63700	2.7	610	13500	1.3	63700	1.5	780	13500
C 90 4_	**534.2**	2.1	63700	2.3	600	13500	1.1	63700	1.2	760	13500
C 90 4_	**582.8**	1.9	63700	2.1	620	13500	1.0	63700	1.1	790	13500
C 90 4_	**652.8**	1.7	63700	1.9	610	13500	0.92	63700	1.0	780	13500
C 90 4_	**712.2**	1.5	63700	1.7	620	13500	0.84	63700	0.94	790	13500
C 90 4_	**773.6**	1.4	63700	1.6	610	13500	0.78	63700	0.86	780	13500
C 90 4_	**844.0**	1.3	63700	1.4	630	13500	0.71	63700	0.79	790	13500
C 90 4_	**922.3**	1.2	63700	1.3	610	13500	0.65	63700	0.72	780	13500
C 90 4_	**1006.0**	1.1	63700	1.2	630	13500	0.60	63700	0.66	790	13500
C 90 4_	**1137.0**	0.97	63700	1.1	620	13500	0.53	63700	0.59	790	13500
C 90 4_	**1240.0**	0.89	63700	0.99	630	13500	0.48	63700	0.54	790	13500

C 100

106,200 lb·in

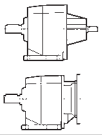


	i	n_1 = **3500** rpm					n_1 = **1750** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 100 2_	**4.9**	714	48700	581	430	4630	357	60200	359	850	5690
C 100 2_	**5.3**	660	50000	551	630	4720	330	61500	339	1110	5800
C 100 2_	**6.5**	538	54400	489	430	4900	269	66800	300	890	6070
C 100 2_	**7.1**	493	54900	452	700	5100	246	67700	279	1180	6270
C 100 2_	**8.4**	417	59300	413	420	5130	208	72600	253	890	6410
C 100 2_	**9.0**	389	60200	391	660	5280	194	73900	240	1170	6560
C 100 2_	**10.1**	347	62800	363	430	5420	173	77400	224	880	6630
C 100 2_	**10.9**	321	62800	337	730	5780	161	77400	208	1230	7100
C 100 2_	**12.5**	280	67700	317	310	5600	140	83200	195	730	6920
C 100 2_	**13.5**	259	68100	295	580	5910	130	84100	182	1050	7220
C 100 2_	**15.2**	230	71700	276	290	5980	115	88500	170	600	7310
C 100 2_	**16.5**	212	73000	259	520	6110	106	89800	159	990	7550
C 100 2_	**18.7**	187	72600	227	340	6920	94	88500	138	810	8540
C 100 2_	**20.2**	173	71700	207	680	7240	87	88500	128	1170	8900
C 100 2_	**22.2**	158	66400	175	800	8050	79	81400	107	1340	9910
C 100 2_	**24.1**	145	71700	174	810	7910	73	88500	107	1330	9730
C 100 2_	**29.6**	118	61100	121	1430	9530	59	75200	74	2070	11700
C 100 3_	**34.3**	102	91600	159	2200	7490	51	103500	90	2920	10400
C 100 3_	**36.9**	95	94300	153	2290	7760	47	104400	84	2940	10800
C 100 3_	**42.9**	82	100400	140	2170	7460	41	106200	74	2940	11500
C 100 3_	**46.2**	76	103500	134	2270	7440	38	106200	69	2990	11900
C 100 3_	**53.3**	66	106200	119	2120	8180	33	106200	59	2970	12800
C 100 3_	**57.4**	61	106200	110	2290	8880	30	106200	55	3010	13300
C 100 3_	**64.5**	54	106200	98	2240	9910	27.1	106200	49	3010	14000
C 100 3_	**69.4**	50	106200	91	2340	10300	25.2	106200	46	3030	14500
C 100 3_	**79.4**	44	106200	80	2320	11100	22.0	106200	40	3030	15400
C 100 3_	**85.6**	41	106200	74	2340	11500	20.4	106200	37	3060	15900
C 100 3_	**92.7**	38	106200	68	2340	12000	18.9	106200	34	3030	16500
C 100 3_	**99.8**	35	106200	64	2360	12400	17.5	106200	32	3060	17100
C 100 3_	**111.9**	31	106200	57	2340	13100	15.6	106200	28	3030	17900
C 100 3_	**120.5**	29.0	106200	53	2360	13600	14.5	106200	26	3080	18500
C 100 3_	**139.7**	25.1	97800	42	2380	15200	12.5	97800	21	3080	19100
C 100 3_	**150.4**	23.3	106200	42	2380	15000	11.6	106200	21	3080	19100
C 100 4_	**162.1**	21.6	106200	40	—	19100	10.8	106200	20	—	19100
C 100 4_	**185.4**	18.9	106200	35	—	19100	9.4	106200	17.5	—	19100
C 100 4_	**199.6**	17.5	106200	32	—	19100	8.8	106200	16.2	—	19100
C 100 4_	**244.2**	14.3	106200	27	—	19100	7.2	106200	13.3	—	19100
C 100 4_	**263.0**	13.3	106200	25	—	19100	6.7	106200	12.3	—	19100
C 100 4_	**300.5**	11.6	106200	22	—	19100	5.8	106200	10.8	—	19100
C 100 4_	**323.6**	10.8	106200	20	—	19100	5.4	106200	10.0	—	19100
C 100 4_	**380.5**	9.2	106200	17.0	—	19100	4.6	106200	8.5	—	19100
C 100 4_	**409.8**	8.5	106200	15.8	—	19100	4.3	106200	7.9	—	19100
C 100 4_	**466.7**	7.5	106200	13.9	—	19100	3.7	106200	6.9	—	19100
C 100 4_	**502.6**	7.0	106200	12.9	—	19100	3.5	106200	6.4	—	19100
C 100 4_	**582.6**	6.0	106200	11.1	—	19100	3.0	106200	5.6	—	19100
C 100 4_	**627.4**	5.6	106200	10.3	—	19100	2.8	106200	5.2	—	19100
C 100 4_	**720.3**	4.9	106200	9.0	—	19100	2.4	106200	4.5	—	19100
C 100 4_	**775.7**	4.5	106200	8.4	—	19100	2.3	106200	4.2	—	19100
C 100 4_	**843.3**	4.2	106200	7.7	—	19100	2.1	106200	3.8	—	19100
C 100 4_	**908.2**	3.9	106200	7.1	—	19100	1.9	106200	3.6	190	19100
C 100 4_	**1004.0**	3.5	106200	6.5	—	19100	1.7	106200	3.2	—	19100
C 100 4_	**1081.0**	3.2	106200	6.0	—	19100	1.6	106200	3.0	200	19100

(—) Contact our Technical Service advising radial load data (rotation CW/CCW. orientation. offset)

C 100

106,200 lb·in



	i	n_1 = **1100** rpm					n_1 = **600** rpm				
	(ratio)	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]	n_2 [rpm]	T_{n2} [lb·in]	P_{n1} [hp]	R_{n1} [lb]	R_{n2} [lb]
C 100 2_	**4.9**	224	69000	259	1190	6470	122	82300	168	1510	7730
C 100 2_	**5.3**	208	70400	244	1500	6630	113	83600	158	2190	7910
C 100 2_	**6.5**	169	76100	215	1270	6970	92	90700	140	1700	8320
C 100 2_	**7.1**	155	77400	200	1580	7150	85	92500	131	2270	8500
C 100 2_	**8.4**	131	82700	181	1270	7330	71	96900	116	1920	9010
C 100 2_	**9.0**	122	84100	172	1590	7550	67	100400	112	2270	8970
C 100 2_	**10.1**	109	88500	161	1250	7550	59	96500	96	2380	10000
C 100 2_	**10.9**	101	89800	151	1570	7800	55	101800	94	2540	9960
C 100 2_	**12.5**	88	94700	139	880	7960	48	96000	77	2630	11200
C 100 2_	**13.5**	81	96000	131	1450	8250	44	101300	75	2770	11100
C 100 2_	**15.2**	72	95600	116	1340	9170	39	95600	63	2920	12300
C 100 2_	**16.5**	67	101800	113	1420	8790	36	101800	62	3010	12300
C 100 2_	**18.7**	59	96500	95	1420	10100	32	96500	52	3010	13400
C 100 2_	**20.2**	54	101800	93	1550	10100	29.7	101800	50	3150	13500
C 100 2_	**22.2**	50	87200	72	2060	11700	27.0	87200	39	3370	15200
C 100 2_	**24.1**	46	95600	73	2010	11500	24.9	95600	40	3370	15100
C 100 2_	**29.6**	37	80500	50	2830	13800	20.3	80500	27	3370	17600
C 100 3_	**34.3**	32	103500	57	3370	13000	17.5	103500	31	3370	17000
C 100 3_	**36.9**	29.8	104400	53	3370	13400	16.3	104400	29	3370	17500
C 100 3_	**42.9**	25.6	106200	46	3370	14300	14.0	106200	25	3370	18500
C 100 3_	**46.2**	23.8	106200	43	3370	14700	13.0	106200	24	3370	19100
C 100 3_	**53.3**	20.6	106200	37	3370	15700	11.3	106200	20	3370	19100
C 100 3_	**57.4**	19.2	106200	35	3370	16300	10.5	106200	18.9	3370	19100
C 100 3_	**64.5**	17.1	106200	31	3370	17100	9.3	106200	16.9	3370	19100
C 100 3_	**69.4**	15.9	106200	29	3370	17700	8.6	106200	15.7	3370	19100
C 100 3_	**79.4**	13.9	106200	25	3370	18700	7.6	106200	13.7	3370	19100
C 100 3_	**85.6**	12.9	106200	23	3370	19100	7.0	106200	12.7	3370	19100
C 100 3_	**92.7**	11.9	106200	21	3370	19100	6.5	106200	11.7	3370	19100
C 100 3_	**99.8**	11.0	106200	20	3370	19100	6.0	106200	10.9	3370	19100
C 100 3_	**111.9**	9.8	106200	17.8	3370	19100	5.4	106200	9.7	3370	19100
C 100 3_	**120.5**	9.1	106200	16.5	3370	19100	5.0	106200	9.0	3370	19100
C 100 3_	**139.7**	7.9	101800	13.7	3370	19100	4.3	97800	7.2	3370	19100
C 100 3_	**150.4**	7.3	106200	13.3	3370	19100	4.0	106200	7.2	3370	19100
C 100 4_	**162.1**	6.8	106200	12.6	—	19100	3.7	106200	6.9	—	19100
C 100 4_	**185.4**	5.9	106200	11.0	—	19100	3.2	106200	6.0	210	19100
C 100 4_	**199.6**	5.5	106200	10.2	—	19100	3.0	106200	5.6	320	19100
C 100 4_	**244.2**	4.5	106200	8.3	—	19100	2.5	106200	4.5	330	19100
C 100 4_	**263.0**	4.2	106200	7.7	—	19100	2.3	106200	4.2	440	19100
C 100 4_	**300.5**	3.7	106200	6.8	—	19100	2.0	106200	3.7	410	19100
C 100 4_	**323.6**	3.4	106200	6.3	190	19100	1.9	106200	3.4	510	19100
C 100 4_	**380.5**	2.9	106200	5.4	160	19100	1.6	106200	2.9	480	19100
C 100 4_	**409.8**	2.7	106200	5.0	250	19100	1.5	106200	2.7	570	19100
C 100 4_	**466.7**	2.4	106200	4.4	200	19100	1.3	106200	2.4	530	19100
C 100 4_	**502.6**	2.2	106200	4.1	300	19100	1.2	106200	2.2	620	19100
C 100 4_	**582.6**	1.9	106200	3.5	250	19100	1.0	106200	1.9	570	19100
C 100 4_	**627.4**	1.8	106200	3.2	330	19100	0.96	106200	1.8	650	19100
C 100 4_	**720.3**	1.5	106200	2.8	290	19100	0.83	106200	1.5	610	19100
C 100 4_	**775.7**	1.4	106200	2.6	370	19100	0.77	106200	1.4	690	19100
C 100 4_	**843.3**	1.3	106200	2.4	310	19100	0.71	106200	1.3	630	19100
C 100 4_	**908.2**	1.2	106200	2.2	390	19100	0.66	106200	1.2	710	19100
C 100 4_	**1004.0**	1.1	106200	2.0	310	19100	0.60	106200	1.1	640	19100
C 100 4_	**1081.0**	1.0	106200	1.9	400	19100	0.56	106200	1.0	710	19100

(—) Contact our Technical Service advising radial load data (rotation CW/CCW. orientation. offset)

2.11 MOTOR AVAILABILITY

Matches of motors and gearboxes listed in tables (B7), (B8) and (B9) here after are purely based on geometrical compatibility.

When selecting a gearmotor refer to procedure described at chapter 1.8, based on torque/hp rating. Combinations featuring the gear ratios within brackets are not possible.

(B7)

		IEC (IM B5)											
		P63	P71	P80	P90	P100-P112	P132	P160	P180	P200	P225	P250	P280
C 11 2		2.8 _ 66.2	2.8 _ 66.2	2.8_47.6	2.8_47.6	2.8_47.6							
C 21 2		3.7_63.3 ⛔ (6.4_7.1)	3.7_63.3 ⛔ (6.4_7.1)	2.7_54.7	2.7_54.7	2.7_54.7							
C 21 3		58.8_261.0	58.8_261.0	58.8_261.0	58.8_261.0	58.8_261.0							
C 31 2		5.0_66.8 ⛔ (6.5_9.3)	5.0_66.8 ⛔ (6.5_9.3)	2.9_66.8	2.9_66.8	2.9_66.8							
C 31 3		74.3_274.7	74.3_274.7	74.3_274.7	74.3_274.7	74.3_274.7							
C 35 2		4.6_19.0 ⛔ (6.1_8.8)	4.6_19.0 ⛔ (6.1_8.8)	2.7_19.0	2.7_19.0	2.7_19.0							
C 35 3		34.7_206.4	34.7_206.4	20.2_206.4	20.2_206.4	20.2_206.4							
C 35 4		232.3_848.5	232.3_848.5	232.3_848.5	232.3_848.5	232.3_848.5							
C 41 2		14.2 _ 44.8	14.2 _ 44.8	2.7_44.8	2.7_44.8	2.7_44.8	2.7_31.4						
C 41 3		47.0_209.1	47.0_209.1	28.5_209.1	28.5_209.1	28.5_209.1	28.5_102.3						
C 41 4		239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5							
C 51 2		18.9_57.0	18.9_57.0	2.6_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4				
C 51 3		59.0_216.7	59.0_216.7	21.8_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4				
C 51 4		240.9_884.9	240.9_884.9	240.9_884.9	240.9_884.9	240.9_884.9							
C 61 2	i =	22.4_38.0	22.4_38.0	3.7_38.0 ⛔ (6.7_7.5)	3.7_38.0 ⛔ (6.7_7.5)	3.7_38.0 ⛔ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0				
C 61 3		67.7_195.8	67.7_195.8	26.8_195.8	26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5				
C 61 4		217.4_796.1	217.4_796.1	217.4_796.1	217.4_796.1	217.4_796.1							
C 70 2				14.1_34.7 ⛔ (15.3)	14.1_34.7 ⛔ (15.3)	14.1_34.7 ⛔ (15.3)	7.5_34.7 ⛔ (8.0)	4.6_34.7	4.6_34.7	4.6_10.2 ⛔ (9.5)			
C 70 3		65.9_239.3	65.9_239.3	41.3_239.3	41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4	41.3_137.4				
C 70 4		251.3_1476	251.3_1476	251.3_1476	251.3_1476	251.3_1476	251.3_554.7						
C 80 2				20.5_39.1	20.5_39.1	20.5_39.1	11.1_39.1	7.0_39.1	5.6_31.3	5.6_25.9	5.6_25.9		
C 80 3				43.5_215.9	43.5_215.9	43.5_215.9	43.5_184.4	43.5_184.4	43.5_184.4				
C 80 4		334.3_1481	334.3_1481	261.9_1481	261.9_1481	261.9_1481	261.9_724.7						
C 90 2				22.9_35.1	22.9_35.1	22.9_35.1	12.8_35.1	8.3_35.1	5.2_35.1	5.2_29.4	5.2_29.4	5.2_29.4	
C 90 3				74.4_172.1	74.4_172.1	74.4_172.1	39.4_172.1	39.4_172.1	39.4_172.1	39.4_96.2	39.4_96.2	39.4_96.2	
C 90 4		339.0_1240	339.0_1240	212.4_1240	212.4_1240	212.4_1240	212.4_712.2	212.4_712.2	212.4_712.2				
C 100 2						29.6	15.2_29.6	12.5_29.6	12.5_29.6	4.9_29.6	4.9_29.6	4.9_29.6	4.9_29.6
C 100 3						79.4_150.4	42.9_150.4	34.3_150.4	34.3_120.5	34.3_99.8	34.3_99.8	34.3_99.8	34.3_99.8
C 100 4		380.5_1081	380.5_1081	162.1_1081	162.1_1081	162.1_1081	162.1_775.7	162.1_775.7	162.1_775.7				

(B8)

NEMA **NEMA motor availability**

		N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC
	HP	0.16...1	1.5...2	3...5	7.5...10	15...20	25...30	40...50
C 11 2		2.8_66.2	2.8_47.6	2.8_47.6				
C 21 2		3.7_63.3 ⛔ (6.4_7.1)	2.7_54.7	2.7_54.7				
C 21 3		58.8_261.0	58.8_261.0	58.8_261.0				
C 31 2		5.0_66.8 ⛔ (6.5_9.3)	2.9_66.8	2.9_66.8				
C 31 3		74.3_274.7	74.3_274.7	74.3_274.7				
C 35 2		4.6_19 ⛔ (6.1_8.8)	2.7_19.0	2.7_19.0				
C 35 3		34.7_206.4	20.2_206.4	20.2_206.4				
C 35 4		232.3_848.5	232.3_848.5	232.3_848.5				
C 41 2		14.2_44.8	2.7_44.8	2.7_44.8	2.7_31.4			
C 41 3		47.0 _ 209.1	28.5 _ 209.1	28.5 _ 209.1	28.5 _ 102.3			
C 41 4		239.9 _ 855.5	239.9 _ 855.5	239.9 _ 855.5				
C 51 2		18.9 _ 57.0	2.6 _ 57.0	2.6 _ 57.0	2.6 _ 40.4	2.6 _ 40.4	2.6 _ 40.4	
C 51 3		59.0 _ 216.7	21.8 _ 216.7	21.8 _ 216.7	21.8 _ 124.4	21.8 _ 124.4	21.8 _ 124.4	
C 51 4		240.9 _ 884.9	240.9 _ 884.9	240.9 _ 884.9				
C 61 2	**i =**	22.4 _ 38.0	3.7 _ 38.0 ⛔ (6.7_7.5)	3.7 _ 38.0 ⛔ (6.7_7.5)	2.8 _ 38.0	2.8 _ 38.0	2.8 _ 38.0	
C 61 3		67.7 _ 195.8	26.8 _ 195.8	26.8 _ 195.8	26.8 _ 140.5	26.8 _ 140.5	26.8 _ 140.5	
C 61 4		217.4 _ 796.1	217.4_796.1	217.4 _ 796.1				
C 70 2			14.1_34.7 ⛔ (15.3)	14.1_34.7 ⛔ (15.3)	7.5_34.7 ⛔ (8.0)	4.6_34.7	4.6_34.7	
C 70 3		65.9_239.3	41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4	41.3_137.4	
C 70 4		251.3_1476	251.3_1476	251.3_1476	251.3_554.7			
C 80 2				20.5 _ 39.1	11.1 _ 39.1	7 _ 39.1	5.6 _ 31.3	5.6 _ 25.9
C 80 3				43.5 _ 215.8	43.5 _ 184.4	43.5 _ 184.4	43.5 _ 184.4	
C 80 4		334.3 _ 1481	261.9 _ 1481	261.9 _ 1481	261.9 _ 724.7			
C 90 2				22.9 _ 35.1	12.8 _ 35.1	8.3 _ 35.1	5.2 _ 35.1	5.2 _ 29.4
C 90 3				74.4 _ 172.1	39.4 _ 172.1	39.4 _ 172.1	39.4 _ 172.1	39.4 _ 96.2
C 90 4		339 _ 1240	212.4 _ 1240	212.4 _ 1240	212.4 _ 712.2	212.4 _ 712.2	212.4 _ 712.2	
C 100 2					15.2 _ 29.6	12.5 _ 29.6	12.5 _ 29.6	4.9 _ 29.6
C 100 3					42.9 _ 150.4	34.3 _ 150.4	34.3 _ 150.4	34.3 _ 99.8
C 100 4		380.5 _ 1081	162.1 _ 1081	162.1 _ 1081	162.1 _ 775.7	162.1 _ 775.7	162.1 _ 775.7	

(B9)

Integral gearmotors

		M0	M05	M1	M2	M3	M4	M5
C 05 2	**i =**	27.1_44.7	5.5_44.7	5.5_44.7				
C 11 2			3.7_ 66.2	2.8 _37.0	2.8_47.7	2.8_47.7		
C 21 2			2.8_63.3 ⛔ (6.4_7.1)	3.7_43.3 ⛔ (6.4_7.1)	2.7_54.7	2.7_54.7		
C 21 3			58.8_261.0	58.8_261.0	58.8_261.0	58.8_261.0		
C 31 2				5.0_52.4 ⛔ (6.5_9.3)	2.9_66.8	2.9_66.8		
C 31 3			74.3_274.7	74.3_274.7	74.3_274.7	74.3_274.7		
C 35 2				4.6_19.0 ⛔ (6.1_8.8)	2.7_19.0	2.7_19.0		
C 35 3				34.7_162.0	20.2_206.4	20.2_206.4		
C 35 4			232.3_848.5	232.3_848.5	232.3_848.5	232.3_848.5		
C 41 2				2.7 _ 44.8	2.7_44.8	2.7_44.8	2.7_31.4	
C 41 3				47.0_209.1	28.5_209.1	28.5_209.1	28.5_102.3	
C 41 4			239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5		
C 51 2				18.9_57.0	2.6_57.0	2.6_57.0	2.6_40.4	
C 51 3				59.0_216.7	21.8_216.7	21.8_216.7	21.8_124.4	
C 51 4				240.9_884.9	240.9_884.9	240.9_884.9		
C 61 2					3.7_38.0 ⛔ (6.7_7.5)	3.7_38.0 ⛔ (6.7_7.5)	2.8_38.0	2.8_38.0
C 61 3					26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5
C 61 4				217.4_796.1	217.4_796.1	217.4_796.1		
C 70 2					14.1_34.7 ⛔ (15.3)	14.1_34.7 ⛔ (15.3)	7.5_34.7 ⛔ (8.0)	7.5_34.7 ⛔ (8.0)
C 70 3					41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4
C 70 4				251.3_1476	251.3_1476	251.3_1476	251.3_554.7	
C 80 2						20.5_39.1	11.1_39.1	11.1_39.1
C 80 3						43.5_215.8	43.5_184.4	43.5_184.4
C 80 4				261.9_1481	261.9_1481	261.9_1481	261.9_724.7	
C 90 2						22.9_35.1	12.8_35.1	12.8_35.1
C 90 3						74.4_172.1	39.4_172.1	39.4_172.1
C 90 4				339.0_1240	212.4_1240	212.4_1240	212.4_712.2	
C 100 2							15.2_29.6	15.2_29.6
C 100 3							42.9_150.4	42.9_150.4
C 100 4				380.5_1081	162.1_1081	162.1_1081	162.1_775.7	

2.12 MASS MOMENT OF INERTIA

C 05

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]							
			 NEMA Motor frame						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 05 2_5.5	6.9	—	—	—	—	—	—	—	—
C 05 2_6.7	6.9	—	—	—	—	—	—	—	—
C 05 2_7.4	6.7	—	—	—	—	—	—	—	—
C 05 2_9.3	4.0	—	—	—	—	—	—	—	—
C 05 2_11.2	3.8	—	—	—	—	—	—	—	—
C 05 2_12.5	3.8	—	—	—	—	—	—	—	—
C 05 2_15.6	2.1	—	—	—	—	—	—	—	—
C 05 2_18.9	2.1	—	—	—	—	—	—	—	—
C 05 2_21.0	1.9	—	—	—	—	—	—	—	—
C 05 2_27.1	0.95	—	—	—	—	—	—	—	—
C 05 2_32.8	0.95	—	—	—	—	—	—	—	—
C 05 2_36.4	0.95	—	—	—	—	—	—	—	—
C 05 2_40.3	0.71	—	—	—	—	—	—	—	—
C 05 2_44.7	0.71	—	—	—	—	—	—	—	—

C 11

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]							
			 NEMA Motor frame						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 11 2_2.8	10	45	76	107	—	—	—	—	31
C 11 2_3.7	6.9	40	74	105	—	—	—	—	29
C 11 2_4.9	4.5	40	71	102	—	—	—	—	26
C 11 2_6.2	2.9	38	69	100	—	—	—	—	24
C 11 2_6.9	8.1	43	74	105	—	—	—	—	29
C 11 2_7.6	7.8	43	74	105	—	—	—	—	29
C 11 2_9.1	5.5	40	71	102	—	—	—	—	26
C 11 2_10.1	5.5	40	71	102	—	—	—	—	26
C 11 2_12.1	3.8	38	71	100	—	—	—	—	26
C 11 2_13.4	3.8	38	69	100	—	—	—	—	26
C 11 2_15.5	2.4	38	69	100	—	—	—	—	24
C 11 2_17.2	2.4	38	69	100	—	—	—	—	24
C 11 2_18.6	1.9	36	69	100	—	—	—	—	24
C 11 2_20.6	1.9	36	69	100	—	—	—	—	24
C 11 2_22.8	1.4	36	67	97	—	—	—	—	24
C 11 2_25.4	1.4	36	67	97	—	—	—	—	24
C 11 2_29.5	0.95	36	67	97	—	—	—	—	21
C 11 2_32.8	0.95	36	67	97	—	—	—	—	21
C 11 2_33.4	0.71	36	67	97	—	—	—	—	21
C 11 2_37.0	0.71	36	67	97	—	—	—	—	21
C 11 2_42.9	0.48	36	43	97	—	—	—	—	21
C 11 2_47.6	0.48	36	67	97	—	—	—	—	21
C 11 2_49.7	0.48	36	67	97	—	—	—	—	21
C 11 2_55.2	0.48	36	67	97	—	—	—	—	21
C 11 2_59.6	0.24	36	67	97	—	—	—	—	21
C 11 2_66.2	0.24	36	67	97	—	—	—	—	21

C 21

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]								
			 NEMA Motor frame							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 21 2_2.7	28	64	95	126	—	—	—	—	74	
C 21 2_3.7	17	52	83	114	—	—	—	—	62	
C 21 2_4.8	11	45	78	109	—	—	—	—	57	
C 21 2_6.1	6.9	40	74	105	—	—	—	—	52	
C 21 2_6.4	19	55	86	116	—	—	—	—	64	
C 21 2_7.1	18	52	86	114	—	—	—	—	62	
C 21 2_8.7	12	48	78	109	—	—	—	—	57	
C 21 2_9.6	12	48	78	109	—	—	—	—	57	
C 21 2_11.2	8.6	43	74	105	—	—	—	—	52	
C 21 2_12.4	8.3	43	74	105	—	—	—	—	52	
C 21 2_14.3	5.0	40	71	102	—	—	—	—	50	
C 21 2_15.8	4.8	40	71	102	—	—	—	—	50	
C 21 2_18.0	3.6	38	69	100	—	—	—	—	48	
C 21 2_20.0	3.6	38	69	100	—	—	—	—	48	
C 21 2_21.9	2.9	38	69	100	—	—	—	—	48	
C 21 2_24.3	2.9	38	69	100	—	—	—	—	48	
C 21 2_26.7	2.1	36	69	100	—	—	—	—	48	
C 21 2_29.6	2.1	36	69	100	—	—	—	—	48	
C 21 2_33.1	1.4	36	67	97	—	—	—	—	45	
C 21 2_36.8	1.4	36	67	97	—	—	—	—	45	
C 21 2_39.0	1.2	36	67	97	—	—	—	—	45	
C 21 2_43.3	1.2	36	67	97	—	—	—	—	45	
C 21 2_49.3	0.71	36	67	97	—	—	—	—	45	
C 21 2_54.7	0.71	36	67	97	—	—	—	—	45	
C 21 2_57.0	0.48	36	67	97	—	—	—	—	45	
C 21 2_63.3	0.48	36	67	97	—	—	—	—	45	
C 21 3_74.4	0.71	36	67	97	—	—	—	—	22	
C 21 3_82.6	0.71	36	67	97	—	—	—	—	22	
C 21 3_90.2	0.71	36	67	97	—	—	—	—	22	
C 21 3_100.2	0.71	36	67	97	—	—	—	—	22	
C 21 3_110.0	0.71	36	67	97	—	—	—	—	22	
C 21 3_122.2	0.71	36	67	97	—	—	—	—	22	
C 21 3_136.5	0.48	36	67	97	—	—	—	—	22	
C 21 3_151.7	0.48	36	67	97	—	—	—	—	22	
C 21 3_160.7	0.48	36	67	97	—	—	—	—	22	
C 21 3_178.5	0.48	36	67	97	—	—	—	—	22	
C 21 3_203.2	0.48	36	67	97	—	—	—	—	22	
C 21 3_225.8	0.48	36	67	97	—	—	—	—	22	
C 21 3_235.0	0.48	36	67	97	—	—	—	—	22	
C 21 3_261.0	0.48	36	67	97	—	—	—	—	22	

C 31

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]							
			 NEMA Motor frame						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 31 2_2.9	55	90	121	152	—	—	—	—	109
C 31 2_3.7	38	71	102	133	—	—	—	—	90
C 31 2_5.0	21	55	88	119	—	—	—	—	74
C 31 2_6.3	15	50	81	112	—	—	—	—	67
C 31 2_6.5	37	71	105	135	—	—	—	—	90
C 31 2_7.2	36	713	102	133	—	—	—	—	88
C 31 2_8.4	26	62	93	124	—	—	—	—	78
C 31 2_9.3	26	59	90	121	—	—	—	—	78
C 31 2_11.1	15	50	81	112	—	—	—	—	67
C 31 2_12.3	14	50	81	112	—	—	—	—	67
C 31 2_14.0	11	45	78	107	—	—	—	—	64
C 31 2_15.6	11	45	78	107	—	—	—	—	64
C 31 2_18.1	8.1	43	74	105	—	—	—	—	62
C 31 2_20.1	8.1	43	74	105	—	—	—	—	62
C 31 2_22.6	5.9	40	71	102	—	—	—	—	59
C 31 2_25.1	5.9	40	71	102	—	—	—	—	59
C 31 2_26.8	4.8	40	71	102	—	—	—	—	57
C 31 2_29.8	4.5	40	71	102	—	—	—	—	57
C 31 2_32.5	3.3	38	69	100	—	—	—	—	57
C 31 2_36.1	3.3	38	69	100	—	—	—	—	57
C 31 2_40.7	2.4	38	69	100	—	—	—	—	55
C 31 2_45.3	2.4	38	69	100	—	—	—	—	55
C 31 2_47.2	1.9	36	69	100	—	—	—	—	55
C 31 2_52.4	1.9	36	69	100	—	—	—	—	55
C 31 2_60.2	1.2	36	67	97	—	—	—	—	55
C 31 2_66.8	1.2	36	67	97	—	—	—	—	55
C 31 3_74.3	1.4	36	67	97	—	—	—	—	23
C 31 3_82.6	1.4	36	67	97	—	—	—	—	23
C 31 3_93.0	1.2	36	67	97	—	—	—	—	23
C 31 3_103.3	1.2	36	67	97	—	—	—	—	23
C 31 3_110.2	1.2	36	67	97	—	—	—	—	23
C 31 3_122.4	1.2	36	67	97	—	—	—	—	23
C 31 3_133.6	1.2	36	67	97	—	—	—	—	23
C 31 3_148.4	1.2	36	67	97	—	—	—	—	23
C 31 3_167.5	0.95	36	67	97	—	—	—	—	22
C 31 3_186.0	0.95	36	67	97	—	—	—	—	22
C 31 3_194.1	0.95	36	67	97	—	—	—	—	22
C 31 3_215.6	0.95	36	67	97	—	—	—	—	22
C 31 3_247.3	0.95	36	67	97	—	—	—	—	22
C 31 3_274.7	0.95	36	67	97	—	—	—	—	22

C 35

Type	i (ratio)		J (·10^{-4}) [lb·ft^2]  NEMA Motor frame							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 35 2_2.7	86	—	152	183	—	—	—	—	335
C 35 2_3.5	57	—	124	154	—	—	—	—	306
C 35 2_4.6	36	71	102	133	—	—	—	—	285
C 35 2_5.8	24	59	90	121	—	—	—	—	273
C 35 2_6.1	55	—	121	152	—	—	—	—	304
C 35 2_6.8	52	—	119	150	—	—	—	—	302
C 35 2_7.9	38	—	105	135	—	—	—	—	287
C 35 2_8.8	36	—	102	133	—	—	—	—	285
C 35 2_10.5	26	62	93	124	—	—	—	—	276
C 35 2_11.7	24	59	90	121	—	—	—	—	273
C 35 2_13.3	17	52	83	114	—	—	—	—	266
C 35 2_14.8	14	50	81	111	—	—	—	—	263
C 35 2_17.1	12	47	78	109	—	—	—	—	261
C 35 2_19.0	11	47	78	109	—	—	—	—	261
C 35 3_20.2	40	—	107	138	—	—	—	—	290
C 35 3_22.1	40	—	107	138	—	—	—	—	290
C 35 3_26.2	29	—	95	126	—	—	—	—	278
C 35 3_28.7	29	—	95	126	—	—	—	—	278
C 35 3_34.7	19	55	86	116	—	—	—	—	268
C 35 3_38.1	19	55	86	116	—	—	—	—	268
C 35 3_43.9	12	48	78	109	—	—	—	—	261
C 35 3_48.2	12	48	78	109	—	—	—	—	261
C 35 3_56.5	9.0	45	76	106	—	—	—	—	258
C 35 3_62.0	9.7	45	76	107	—	—	—	—	259
C 35 3_70.7	6.7	42	73	104	—	—	—	—	256
C 35 3_77.6	6.7	42	73	104	—	—	—	—	256
C 35 3_83.8	5.0	41	71	102	—	—	—	—	254
C 35 3_91.9	5.0	41	71	102	—	—	—	—	254
C 35 3_101.6	3.8	39	70	101	—	—	—	—	253
C 35 3_111.5	3.8	39	70	101	—	—	—	—	253
C 35 3_127.3	2.6	38	69	100	—	—	—	—	252
C 35 3_139.8	2.6	38	69	100	—	—	—	—	252
C 35 3_147.6	2.1	38	69	100	—	—	—	—	252
C 35 3_162.0	2.1	38	69	100	—	—	—	—	252
C 35 3_188.0	1.4	37	68	99	—	—	—	—	251
C 35 3_206.4	1.4	37	68	99	—	—	—	—	251
C 35 4_232.3	1.9	38	68	99	—	—	—	—	21
C 35 4_255.0	1.9	38	68	99	—	—	—	—	21
C 35 4_290.6	1.7	37	68	99	—	—	—	—	21
C 35 4_318.9	1.7	37	68	99	—	—	—	—	21
C 35 4_344.3	1.4	37	68	99	—	—	—	—	20
C 35 4_377.9	1.4	37	68	99	—	—	—	—	20
C 35 4_417.6	1.4	37	68	99	—	—	—	—	20
C 35 4_458.4	1.4	37	68	99	—	—	—	—	20
C 35 4_523.5	1.4	37	68	99	—	—	—	—	20
C 35 4_574.7	1.4	37	68	99	—	—	—	—	20
C 35 4_606.6	1.4	37	68	99	—	—	—	—	20
C 35 4_665.9	1.4	37	68	99	—	—	—	—	20
C 35 4_773.0	1.4	37	68	99	—	—	—	—	20
C 35 4_848.5	1.4	37	68	99	—	—	—	—	20

C 41

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]							
			 NEMA Motor frame						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 41 2_2.7	238	—	304	335	686	—	—	—	487
C 41 2_3.6	143	—	209	240	591	—	—	—	392
C 41 2_4.7	88	—	154	185	537	—	—	—	337
C 41 2_6.0	59	—	126	157	508	—	—	—	309
C 41 2_6.4	102	—	169	200	551	—	—	—	352
C 41 2_7.1	97	—	164	195	546	—	—	—	347
C 41 2_8.6	69	—	135	166	518	—	—	—	318
C 41 2_9.6	67	—	133	164	515	—	—	—	316
C 41 2_11.2	43	—	109	140	492	—	—	—	292
C 41 2_12.4	43	—	109	140	492	—	—	—	292
C 41 2_14.2	33	69	100	131	482	—	—	—	283
C 41 2_15.8	31	67	97	128	480	—	—	—	280
C 41 2_17.8	24	59	90	121	473	—	—	—	273
C 41 2_19.8	23	59	90	121	473	—	—	—	273
C 41 2_22.6	14	50	81	112	463	—	—	—	264
C 41 2_25.0	14	50	81	112	463	—	—	—	264
C 41 2_28.3	10	45	76	107	458	—	—	—	259
C 41 2_31.4	10	45	76	107	458	—	—	—	259
C 41 2_33.4	8.1	43	74	105	—	—	—	—	257
C 41 2_37.1	7.8	43	74	105	—	—	—	—	257
C 41 2_44.8	6.4	43	74	105	—	—	—	—	257
C 41 3_28.5	60	—	126	157	508	—	—	—	309
C 41 3_31.2	60	—	126	157	508	—	—	—	309
C 41 3_36.8	38	—	105	135	487	—	—	—	287
C 41 3_40.3	38	—	105	135	487	—	—	—	287
C 41 3_47.0	29	64	95	126	477	—	—	—	278
C 41 3_51.5	29	64	95	126	477	—	—	—	278
C 41 3_58.7	21	57	88	119	470	—	—	—	271
C 41 3_64.3	21	57	88	119	470	—	—	—	271
C 41 3_74.4	14	50	81	112	463	—	—	—	264
C 41 3_81.5	14	50	81	112	463	—	—	—	264
C 41 3_93.9	9.5	45	76	107	458	—	—	—	259
C 41 3_102.3	9.5	45	76	107	458	—	—	—	259
C 41 3_110.1	7.1	43	74	105	—	—	—	—	257
C 41 3_120.6	7.1	43	74	105	—	—	—	—	257
C 41 3_132.9	7.1	43	74	105	—	—	—	—	257
C 41 3_145.6	7.1	43	74	105	—	—	—	—	257
C 41 3_164.1	4.8	40	71	102	—	—	—	—	254
C 41 3_179.9	4.8	40	71	102	—	—	—	—	254
C 41 3_190.8	2.4	38	69	100	—	—	—	—	252
C 41 3_209.1	2.4	38	69	100	—	—	—	—	252

C 41

Type	i (ratio)		J (·10^{-4}) [lb·ft^2]  NEMA Motor frame							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 41 4_239.9	3.6	40	71	102	—	—	—	—	50
C 41 4_263.0	3.6	40	71	102	—	—	—	—	50
C 41 4_304.2	3.1	38	69	100	—	—	—	—	48
C 41 4_333.4	3.1	38	69	100	—	—	—	—	48
C 41 4_382.0	2.9	38	69	100	—	—	—	—	48
C 41 4_419.0	2.9	38	69	100	—	—	—	—	48
C 41 4_450.2	2.9	38	69	100	—	—	—	—	48
C 41 4_493.5	2.9	38	69	100	—	—	—	—	48
C 41 4_543.5	2.9	38	69	100	—	—	—	—	48
C 41 4_595.8	2.9	38	69	100	—	—	—	—	48
C 41 4_671.3	2.4	38	69	100	—	—	—	—	48
C 41 4_735.9	2.4	38	69	100	—	—	—	—	48
C 41 4_780.4	2.4	38	69	100	—	—	—	—	48
C 41 4_855.5	2.4	38	69	100	—	—	—	—	48

C 51

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]							
			 NEMA Motor frame						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 51 2_2.6	344	—	411	442	793	—	—	—	594
C 51 2_3.3	238	—	304	335	686	—	—	—	487
C 51 2_4.5	150	—	216	247	599	—	—	—	399
C 51 2_5.6	97	—	164	195	546	—	—	—	347
C 51 2_7.0	192	—	259	290	641	—	—	—	442
C 51 2_7.8	185	—	252	283	634	—	—	—	435
C 51 2_8.8	143	—	209	240	591	—	—	—	392
C 51 2_9.8	138	—	204	235	587	—	—	—	387
C 51 2_11.8	97	—	164	195	546	—	—	—	347
C 51 2_13.1	95	—	162	192	544	—	—	—	344
C 51 2_15.0	64	—	131	162	513	—	—	—	314
C 51 2_16.6	62	—	128	159	511	—	—	—	311
C 51 2_18.9	48	83	114	145	496	—	—	—	297
C 51 2_21.0	45	81	112	143	494	—	—	—	295
C 51 2_23.4	36	71	102	133	485	—	—	—	285
C 51 2_25.9	33	69	100	131	482	—	—	—	283
C 51 2_29.8	21	57	88	119	470	—	—	—	271
C 51 2_33.0	21	57	88	119	470	—	—	—	271
C 51 2_36.4	17	52	83	114	466	—	—	—	266
C 51 2_40.4	17	52	83	114	466	—	—	—	266
C 51 2_43.1	12	48	78	109	—	—	—	—	261
C 51 2_47.8	12	48	78	109	—	—	—	—	261
C 51 2_51.4	9.5	45	76	107	—	—	—	—	259
C 51 2_57.0	9.5	45	76	107	—	—	—	—	259
C 51 3_21.8	162	—	228	259	610	1846	1798	—	411
C 51 3_23.9	162	—	228	259	610	1846	1798	—	411
C 51 3_27.4	124	—	190	221	572	1846	1798	—	373
C 51 3_30.1	124	—	190	221	572	1846	1798	—	373
C 51 3_37.0	86	—	152	183	534	1846	1798	—	335
C 51 3_40.5	86	—	152	183	534	1846	1798	—	335
C 51 3_46.7	57	—	124	154	506	1846	1798	—	306
C 51 3_51.2	57	—	124	154	506	1846	1798	—	306
C 51 3_59.0	43	78	109	140	492	1846	1798	—	292
C 51 3_64.6	43	78	109	140	492	1846	1798	—	292
C 51 3_72.9	31	67	97	128	480	1846	1798	—	280
C 51 3_79.7	31	67	97	128	480	1846	1798	—	280
C 51 3_93.0	19	55	86	116	468	1846	1798	—	268
C 51 3_101.8	19	55	86	116	468	1846	1798	—	268
C 51 3_113.6	14	50	81	112	463	1846	1798	—	264
C 51 3_124.4	14	50	81	112	463	1846	1798	—	264
C 51 3_134.6	12	48	78	109	—	—	—	—	261
C 51 3_147.4	12	48	78	109	—	—	—	—	261
C 51 3_160.5	9.5	45	76	107	—	—	—	—	259
C 51 3_175.8	9.5	45	76	107	—	—	—	—	259
C 51 3_197.9	7.1	43	74	105	—	—	—	—	257
C 51 3_216.7	7.1	43	74	105	—	—	—	—	257

C 51

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]							
			 NEMA Motor frame						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 51 4_240.9	7.1	43	74	105	—	—	—	—	29
C 51 4_263.8	7.1	43	74	105	—	—	—	—	29
C 51 4_297.8	7.1	43	74	105	—	—	—	—	29
C 51 4_326.1	7.1	43	74	105	—	—	—	—	29
C 51 4_380.0	4.8	40	71	102	—	—	—	—	26
C 51 4_416.0	4.8	40	71	102	—	—	—	—	26
C 51 4_463.9	4.8	40	71	102	—	—	—	—	26
C 51 4_508.0	4.8	40	71	102	—	—	—	—	26
C 51 4_549.7	4.8	40	71	102	—	—	—	—	26
C 51 4_602.0	4.8	40	71	102	—	—	—	—	26
C 51 4_655.4	4.8	40	71	102	—	—	—	—	26
C 51 4_717.7	4.8	40	71	102	—	—	—	—	26
C 51 4_808.0	4.8	40	71	102	—	—	—	—	26
C 51 4_884.9	4.8	40	71	102	—	—	—	—	26

C 61

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]							
			 NEMA Motor frame						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 61 2_2.8	713	—	—	—	1162	1846	1798	—	1230
C 61 2_3.7	451	—	518	549	900	1846	1798	—	969
C 61 2_4.6	333	—	399	430	781	1846	1798	—	850
C 61 2_6.0	209	—	276	306	658	1846	1798	—	727
C 61 2_6.7	333	—	399	430	781	1846	1798	—	850
C 61 2_7.5	309	—	375	406	758	1846	1798	—	827
C 61 2_8.8	309	—	375	406	758	1846	1798	—	827
C 61 2_9.8	285	—	352	382	734	1846	1798	—	803
C 61 2_10.9	228	—	295	325	677	1846	1798	—	746
C 61 2_12.1	219	—	285	316	667	1846	1798	—	736
C 61 2_14.3	138	—	204	235	587	1846	1798	—	656
C 61 2_15.9	133	—	200	230	582	1846	1798	—	651
C 61 2_17.7	105	—	171	202	553	1846	1798	—	622
C 61 2_19.6	102	—	169	200	551	1846	1798	—	620
C 61 2_22.4	76	112	143	173	525	1846	1798	—	594
C 61 2_24.8	74	109	140	171	523	1846	1798	—	591
C 61 2_27.4	50	86	116	147	499	1846	1798	—	568
C 61 2_30.4	52	88	119	150	501	1846	1798	—	570
C 61 2_34.2	36	71	102	133	485	1846	1798	—	553
C 61 2_38.0	36	71	102	133	485	1846	1798	—	553
C 61 3_26.8	238	—	304	335	686	1846	1798	—	755
C 61 3_29.4	238	—	304	335	686	1846	1798	—	755
C 61 3_33.0	192	—	259	290	641	1846	1798	—	710
C 61 3_36.1	192	—	259	290	641	1846	1798	—	710
C 61 3_43.4	119	—	185	216	568	1846	1798	—	637
C 61 3_47.6	119	—	185	216	568	1846	1798	—	637
C 61 3_53.5	93	—	159	190	542	1846	1798	—	610
C 61 3_58.6	90	—	157	188	539	1846	1798	—	608
C 61 3_67.7	67	102	133	164	515	1846	1798	—	584
C 61 3_74.2	67	102	133	164	515	1846	1798	—	584
C 61 3_83.0	45	81	112	143	494	1846	1798	—	563
C 61 3_91.0	45	81	112	143	494	1846	1798	—	563
C 61 3_103.6	31	67	97	128	480	1846	1798	—	549
C 61 3_113.6	31	67	97	128	480	1846	1798	—	549
C 61 3_128.1	24	59	90	121	473	1846	1798	—	542
C 61 3_140.5	24	59	90	121	473	1846	1798	—	542
C 61 3_150.0	17	52	83	114	—	—	—	—	534
C 61 3_164.5	17	52	83	114	—	—	—	—	534
C 61 3_178.6	14	50	81	112	—	—	—	—	532
C 61 3_195.8	14	50	81	112	—	—	—	—	532

C 61

Type	i (ratio)		 NEMA Motor frame						
		J (·10^{-4}) [lb·ft^2]							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 61 4_217.4	16	52	82	113	—	—	—	—	265
C 61 4_238.3	16	52	82	113	—	—	—	—	265
C 61 4_275.3	19	55	86	117	—	—	—	—	269
C 61 4_301.7	19	55	86	117	—	—	—	—	269
C 61 4_337.7	13	49	80	111	—	—	—	—	263
C 61 4_370.1	13	49	80	111	—	—	—	—	263
C 61 4_421.5	13	48	79	110	—	—	—	—	262
C 61 4_462.0	13	48	79	110	—	—	—	—	262
C 61 4_521.1	12	48	79	110	—	—	—	—	262
C 61 4_571.2	12	48	79	110	—	—	—	—	262
C 61 4_610.1	12	47	78	109	—	—	—	—	261
C 61 4_668.8	12	47	78	109	—	—	—	—	261
C 61 4_726.3	11	47	78	109	—	—	—	—	261
C 61 4_796.1	11	47	78	109	—	—	—	—	261

C 70

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]								
			 NEMA Motor frame							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 70 2_4.6	—	—	—	—	—	3230	3159	—	2352	
C 70 2_5.9	—	—	—	—	—	2827	2779	—	760	
C 70 2_6.3	—	—	—	—	—	3064	3017	—	2209	
C 70 2_7.5	627	—	—	—	1069	2494	2423	—	1615	
C 70 2_8.0	—	—	—	—	—	2732	2684	—	1853	
C 70 2_9.5	444	—	—	—	903	2304	2257	—	1425	
C 70 2_10.2	565	—	—	—	1021	2423	2375	—	1544	
C 70 2_11.2	363	—	—	—	808	2233	2162	—	1330	
C 70 2_13.0	409	—	—	—	855	2257	2209	—	1378	
C 70 2_14.1	235	—	290	321	686	2090	2043	—	1211	
C 70 2_15.3	337	—	—	—	784	2209	2138	—	1306	
C 70 2_16.7	164	—	223	254	615	2019	1971	—	1140	
C 70 2_19.3	216	—	273	304	665	2067	2019	—	1188	
C 70 2_22.9	152	—	211	242	601	2019	1971	—	1140	
C 70 2_27.7	124	—	188	219	572	1995	1924	—	1093	
C 70 2_34.7	76	—	143	173	525	1948	1876	—	1045	
C 70 3_41.3	105	—	171	202	553	1971	1900	—	1093	
C 70 3_44.7	100	—	166	195	546	1971	1900	—	1069	
C 70 3_52.2	71	—	138	166	520	1924	1876	—	1045	
C 70 3_56.5	67	—	133	164	515	1924	1876	—	1045	
C 70 3_65.9	48	—	114	145	496	1900	1853	—	1021	
C 70 3_71.3	48	—	114	143	496	1900	1853	—	1021	
C 70 3_81.4	36	—	102	133	485	1900	1853	—	1021	
C 70 3_88.2	33	—	100	131	482	1900	1805	—	1021	
C 70 3_103.8	24	—	90	121	473	1876	1829	—	998	
C 70 3_112.4	21	—	88	119	470	1876	1829	—	998	
C 70 3_126.8	17	—	83	114	466	1876	1829	—	998	
C 70 3_137.4	17	—	83	112	466	1876	1829	—	998	
C 70 3_150.3	12	—	81	228	—	—	—	—	998	
C 70 3_162.8	12	—	81	109	—	—	—	—	998	
C 70 3_179.2	9.5	—	78	107	—	—	—	—	998	
C 70 3_194.1	9.5	—	76	107	—	—	—	—	998	
C 70 3_220.9	7.1	—	74	102	—	—	—	—	974	
C 70 3_239.3	7.1	—	74	102	—	—	—	—	974	

C 70

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]								
			 NEMA Motor frame							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 70 4_251.3	17	52	83	114	466	1876	1829	—	259	
C 70 4_272.2	17	50	83	114	466	1876	1829	—	259	
C 70 4_317.9	12	48	78	109	461	1876	1829	—	254	
C 70 4_344.3	12	48	78	109	461	1876	1829	—	254	
C 70 4_409.4	9.5	43	76	107	458	1876	1805	—	188	
C 70 4_443.5	9.5	43	76	107	458	1876	1805	—	188	
C 70 4_512.0	7.1	40	74	105	456	1876	1805	—	185	
C 70 4_554.7	7.1	40	74	105	456	1876	1805	—	185	
C 70 4_606.8	4.8	40	71	102	—	—	—	—	185	
C 70 4_657.3	4.8	40	71	102	—	—	—	—	183	
C 70 4_736.0	4.8	38	69	102	—	—	—	—	183	
C 70 4_797.3	4.8	38	69	102	—	—	—	—	183	
C 70 4_922.6	2.4	38	69	100	—	—	—	—	183	
C 70 4_999.5	2.4	38	69	100	—	—	—	—	181	
C 70 4_1069	19	36	69	100	—	—	—	—	181	
C 70 4_1158	19	36	69	100	—	—	—	—	181	
C 70 4_1362	14	36	69	97	—	—	—	—	181	
C 70 4_1476	14	36	69	97	—	—	—	—	181	

C 80

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]								
			 NEMA Motor frame							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 80 2_5.6		—	—	—	—	—	—	4679	—	3895
C 80 2_6.1		—	—	—	—	—	—	4584	—	3777
C 80 2_7.0		—	—	—	—	—	3800	3824	—	3017
C 80 2_7.6		—	—	—	—	—	3753	3753	—	2945
C 80 2_8.9		—	—	—	—	—	3254	3207	—	2399
C 80 2_9.6		—	—	—	—	—	3230	3159	—	2352
C 80 2_11.1		891	—	—	—	1330	2755	2684	9691	1876
C 80 2_12.0		865	—	—	—	1306	2732	2660	9667	1853
C 80 2_13.8		667	—	—	—	1116	2518	2470	9454	1639
C 80 2_14.9		651	—	—	—	1093	2518	2447	9430	1639
C 80 2_16.7		508	—	—	—	950	2375	2304	9287	1496
C 80 2_18.1		496	—	—	—	950	2352	2304	9264	1473
C 80 2_20.5		337	—	394	425	784	2209	2138	9097	1306
C 80 2_22.2		330	—	387	418	784	2185	2138	9097	1306
C 80 2_24.0		311	—	371	401	760	2162	2114	9074	1283
C 80 2_25.9		306	—	366	397	760	2162	2114	9074	1283
C 80 3_31.3		207	—	271	302	656	2067	2019	—	1188
C 80 3_39.1		124	—	190	219	572	1995	1924	—	1093
C 80 3_43.5		228	—	295	325	689	2090	2043	—	1211
C 80 3_47.4		216	—	283	314	665	2067	2019	—	1188
C 80 3_57.3		135	—	202	230	594	1995	1948	—	1116
C 80 3_62.5		128	—	195	226	570	1995	1948	—	1116
C 80 3_70.5		102	—	166	197	546	1971	1900	—	1069
C 80 3_76.9		97	—	164	195	546	1948	1900	—	1069
C 80 3_89.3		71	—	138	169	523	1924	1876	—	1045
C 80 3_97.4		69	—	135	166	523	1924	1876	—	1045
C 80 3_109.5		48	—	114	145	499	1900	1853	—	1021
C 80 3_119.5		45	—	112	143	499	1900	1876	—	1021
C 80 3_136.7		33	—	100	131	475	1900	1853	—	1021
C 80 3_149.1		33	—	100	131	475	1900	1829	—	1021
C 80 3_169.0		24	—	90	121	—	—	—	—	998
C 80 3_184.4		24	—	90	121	—	—	—	—	998
C 80 3_197.9		19	—	86	116	—	—	—	—	998
C 80 3_215.8		19	—	86	116	—	—	—	—	998

C 80

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]							
			 NEMA Motor frame						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 80 4_261.9	40		—	107	138	489	1900	1853	—	283
C 80 4_285.7	40		—	107	138	489	1900	1853	—	283
C 80 4_334.3	29		64	95	126	477	1900	1829	—	271
C 80 4_364.7	29		62	95	126	477	1900	1829	—	271
C 80 4_417.5	21		55	88	119	470	1876	1829	—	264
C 80 4_455.4	21		55	88	131	470	1876	1829	—	264
C 80 4_529.3	12		48	78	109	461	1876	1829	—	254
C 80 4_577.4	12		48	78	109	461	1876	1829	—	254
C 80 4_664.3	9.5		45	76	107	458	1853	1829	—	252
C 80 4_724.7	9.5		45	76	107	458	1853	1829	—	252
C 80 4_783.4	7.1		43	74	105	—	—	—	—	223
C 80 4_854.6	7.1		43	74	105	—	—	—	—	223
C 80 4_945.7	4.8		40	71	102	—	—	—	—	221
C 80 4_1032	4.8		40	71	102	—	—	—	—	221
C 80 4_1168	4.8		38	71	100	—	—	—	—	219
C 80 4_1274	4.8		38	71	100	—	—	—	—	219
C 80 4_1358	2.4		38	69	100	—	—	—	—	219
C 80 4_1481	2.4		38	69	100	—	—	—	—	219

C 90

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]								
			 NEMA Motor frame							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 90 2_5.2		—	—	—	—	—	—	—	14489	14703
C 90 2_5.6		—	—	—	—	—	—	—	14228	14466
C 90 2_6.8		—	—	—	—	—	—	—	12589	12827
C 90 2_7.3		—	—	—	—	—	—	—	12446	12660
C 90 2_8.3		—	—	—	—	—	—	—	11639	11853
C 90 2_9.0		—	—	—	—	—	—	—	11520	11758
C 90 2_10.4		—	—	—	—	—	3967	3895	10879	10950
C 90 2_11.2		—	—	—	—	—	3895	3848	10808	10879
C 90 2_12.8		1542	—	—	—	1995	3397	3349	10356	10428
C 90 2_13.9		1501	—	—	—	1948	3349	3302	10309	10380
C 90 2_16.0		1116	—	—	—	1568	2969	2922	9905	9976
C 90 2_17.3		1090	—	—	—	1544	2945	2898	9881	9952
C 90 2_18.7		1007	—	—	—	1449	2874	2827	9786	9857
C 90 2_20.2		983	—	—	—	1448	4727	2803	9762	9834
C 90 2_22.9		656	—	713	736	1116	2518	2470	9430	9501
C 90 2_24.8		641	—	698	736	1093	2494	2447	9406	9477
C 90 2_27.2		525	—	589	620	974	2399	2352	9287	9359
C 90 2_29.4		520	—	580	610	974	2375	2328	9287	9359
C 90 2_35.1		333	—	397	428	784	2209	2138	—	9169
C 90 3_39.4		646	—	—	—	1093	2494	2446	9454	9786
C 90 3_43.0		620	—	—	—	1069	2470	2423	9406	9739
C 90 3_50.3		458	—	—	—	903	2328	2256	9240	9572
C 90 3_54.9		439	—	—	—	879	2304	2256	9240	9525
C 90 3_59.2		373	—	—	—	831	2233	2185	9145	9454
C 90 3_64.6		361	—	—	—	808	2233	2161	9121	9454
C 90 3_74.4		240	—	297	328	689	2090	2043	9002	9335
C 90 3_81.2		233	—	287	318	682	2090	2043	9002	9311
C 90 3_88.2		169	—	228	259	618	20195	1971	8931	9240
C 90 3_96.2		164	—	223	254	613	2019	1971	8931	9240
C 90 3_107.0		135	—	200	228	584	1995	1948	—	9216
C 90 3_116.7		131	—	195	226	580	1995	1948	—	9216
C 90 3_134.1		83	—	150	181	532	1948	1900	—	9169
C 90 3_146.3		81	—	147	178	530	1948	1900	—	9169
C 90 3_157.8		59	—	126	157	508	1924	1876	—	9145
C 90 3_172.1		57	—	124	154	506	1924	1876	—	9145

C 90

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]							
			 NEMA Motor frame						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 90 4_212.4	100	—	166	197	549	1960	1905	—	342
C 90 4_231.7	97	—	164	195	546	1957	1905	—	340
C 90 4_268.5	67	—	133	164	515	1926	1874	—	309
C 90 4_292.9	67	—	62	164	515	1926	1874	—	309
C 90 4_339.0	48	81	114	143	496	1907	1853	—	290
C 90 4_369.8	48	81	114	143	496	1905	1853	—	290
C 90 4_419.0	33	69	100	131	482	1893	1841	—	276
C 90 4_457.1	33	69	100	131	482	1893	1841	—	276
C 90 4_534.2	21	57	88	119	470	1881	1829	—	264
C 90 4_582.8	21	57	88	119	470	1881	1829	—	264
C 90 4_652.8	17	50	83	112	466	1876	1822	—	259
C 90 4_712.2	17	50	83	112	466	1876	1822	—	259
C 90 4_773.6	12	48	78	109	—	—	—	—	230
C 90 4_844.0	12	48	78	109	—	—	—	—	228
C 90 4_922.3	9.5	43	76	107	—	—	—	—	226
C 90 4_1006	9.5	43	76	107	—	—	—	—	223
C 90 4_1137	7.1	40	71	102	—	—	—	—	221
C 90 4_1240	7.1	40	71	102	—	—	—	—	221

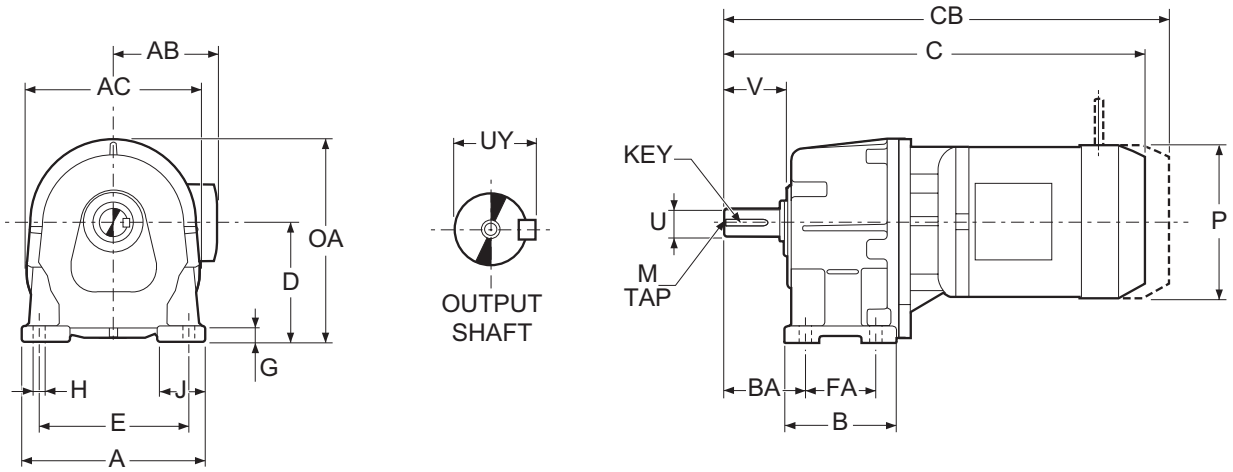
C 100

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]								
			 NEMA Motor frame							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 100 2_4.9		—	—	—	—	—	—	—	22803	23088
C 100 2_5.3		—	—	—	—	—	—	—	22162	22423
C 100 2_6.5		—	—	—	—	—	—	—	18219	18480
C 100 2_7.1		—	—	—	—	—	—	—	17838	18124
C 100 2_8.4		—	—	—	—	—	—	—	15534	15724
C 100 2_9.0		—	—	—	—	—	—	—	15226	15511
C 100 2_10.1		—	—	—	—	—	—	—	13705	13990
C 100 2_10.9		—	—	—	—	—	—	—	13539	13824
C 100 2_12.5		—	—	—	—	—	5321	5273	12375	12565
C 100 2_13.5		—	—	—	—	—	5226	5178	12280	12447
C 100 2_15.2		—	—	—	—	—	3349	4751	4964	12209
C 100 2_16.5		—	—	—	—	3278	4679	4632	7031	11971
C 100 2_18.7		—	—	—	—	2755	4157	4109	11259	11401
C 100 2_20.2		—	—	—	—	2708	4109	4062	11188	11354
C 100 2_22.2		—	—	—	—	2185	2423	3563	10641	10831
C 100 2_24.1		—	—	—	—	2162	3563	3515	10618	10808
C 100 2_29.6		—	—	—	1285	1639	3064	3017	10095	10285
C 100 3_34.3		—	—	—	—	—	3515	3468	10428	10950
C 100 3_36.9		—	—	—	—	—	3444	3397	10356	10879
C 100 3_42.9		—	—	—	—	1496	2922	2850	9857	10380
C 100 3_46.2		—	—	—	—	1449	2874	2803	9810	10333
C 100 3_53.3		772	—	—	—	1211	2637	2589	9572	10071
C 100 3_57.4		746	—	—	—	1188	2613	2542	9525	10048
C 100 3_64.5		580	—	—	—	1021	2447	2399	9359	9857
C 100 3_69.4		561	—	—	—	1021	2423	2375	9335	9834
C 100 3_79.4		385	—	442	473	831	2257	2185	9145	9667
C 100 3_85.6		373	—	428	458	831	2233	2185	9145	9644
C 100 3_92.7		347	—	406	437	808	2209	2162	—	9620
C 100 3_99.8		337	—	397	428	784	2209	21401	—	9596
C 100 3_111.9		235	—	299	330	684	2090	2043	—	9311
C 100 3_120.5		228	—	292	323	677	2090	2043	—	9311
C 100 3_139.7		143	—	207	238	589	1995	1948	—	9216
C 100 3_150.4		138	—	202	233	587	1995	1948	—	9216

C 100

Type	i (ratio)	J (·10^{-4}) [lb·ft^2]								
			 NEMA Motor frame							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 100 4_162.1	302	—	368	399	760	2375	2114	—	544
C 100 4_185.4	228	—	295	328	677	2090	2043	—	470
C 100 4_199.6	202	—	292	325	675	2090	2043	—	468
C 100 4_244.2	135	—	202	233	584	1995	1948	—	378
C 100 4_263.0	133	—	200	230	582	1995	1948	—	375
C 100 4_300.5	100	—	169	200	551	1971	1900	—	344
C 100 4_323.6	100	135	166	197	549	1971	1900	—	342
C 100 4_380.5	74	107	131	169	523	1924	1876	—	316
C 100 4_409.8	71	107	131	169	523	1924	1876	—	314
C 100 4_466.7	48	83	114	145	477	1900	1853	—	290
C 100 4_502.6	48	81	114	145	477	1900	1853	—	290
C 100 4_582.6	33	69	100	131	482	1900	1829	—	276
C 100 4_627.4	33	69	100	131	482	1900	1829	—	276
C 100 4_720.3	24	59	81	121	475	1876	1829	—	266
C 100 4_775.7	24	59	81	121	475	1876	1829	—	266
C 100 4_843 .3	19	55	86	116	—	—	—	—	235
C 100 4_908.2	19	55	86	116	—	—	—	—	235
C 100 4_1004	14	48	81	112	—	—	—	—	230

2.13 DIMENSIONS



Gearcase

	A	AC	B	BA	D	E	FA	G	H	J	OA
C 05 2	5.315 *135*	5.039 *128*	3.150 *80*	2.283 *58*	3.346 *85*	4.331 *110*	1.969 *50*	0.472 *12*	0.354 *9*	1.378 *35*	5.748 *146*

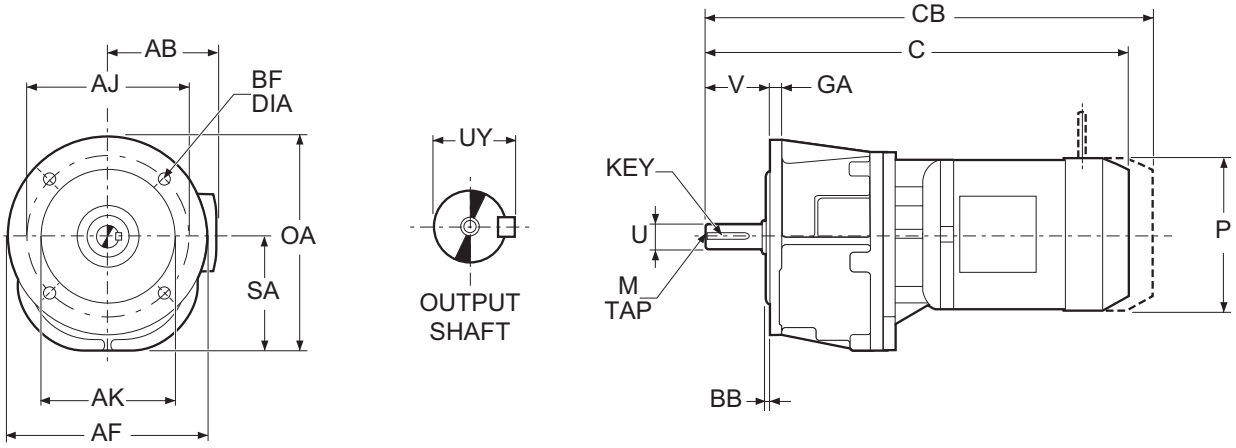
Output shaft (Inch series)

		U	UY	V	Key	M
C 05 2	**NP**	0.625 $^{+0}_{-0.0004}$	0.705	1.562	3/16 x 3/16 x 1 3/8	*M6x16 [mm]*

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 05 2_S0 M0	3.583 *91*	11.78 *299.2*	—	4.331 *110*	15 / *7*
C 05 2_S05 M05	3.740 *95*	13.57 *344.7*	16.17 *410.7*	4.764 *121*	22 / *10*
C 05 2_S1 M1	4.252 *108*	14.71 *373.7*	17.11 *434.7*	5.433 *138*	29 / *13*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	SA	OA
C 05 2	3.228	5.984
	82	*152*

Flange

AF	AJ	AK		BB	BF	GA
5.512	4.528	3.740	-0.0014 -0.0028	0.315	0.354	0.315
140	*115*	*95*	*-0.036* *-0.071*	*8*	*9*	*8*

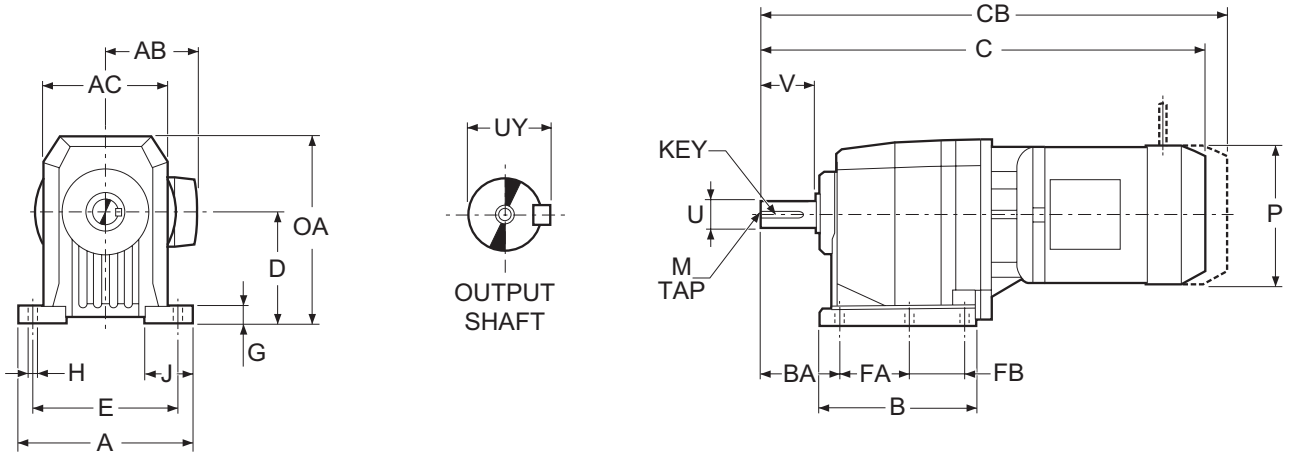
Output shaft (Inch series)

		U		UY	V	Key	M
C 05 2	**NF**	0.625	$^{+0}_{-0.0004}$	0.705	1.562	3/16 x 3/16 x 1 3/8	*M6x16 [mm]*

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 05 2_S0 M0	3.583 *91*	11.78 *299.2*	—	4.331 *110*	15 / *7*
C 05 2_S05 M05	3.740 *95*	13.57 *344.7*	16.17 *410.7*	4.764 *121*	22 / *10*
C 05 2_S1 M1	4.252 *108*	14.71 *373.7*	17.11 *434.7*	5.433 *138*	29 / *13*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	D	E	FA	FB	G	H	J	OA
C 11 2	5.118 *130*	3.740 *95*	4.213 *107*	2.283 *58*	3.346 *85*	4.331 *110*	1.969 *50*	1.457 *37*	0.590 *15*	0.354 *9*	1.457 *37*	5.551 *141*

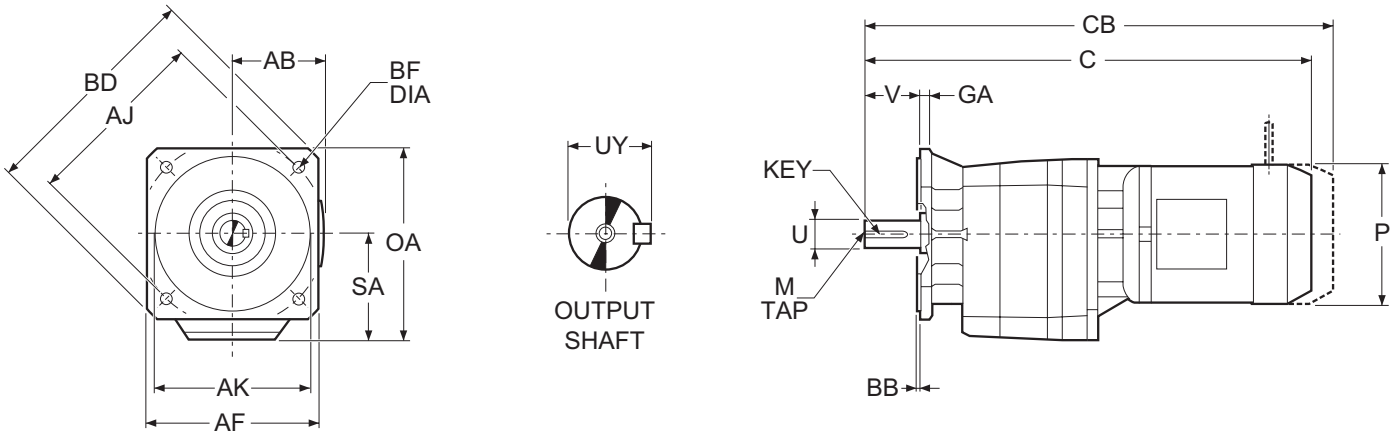
Output shaft (Inch series)

		U	UY	V	Key	M
C 11 2	**NP**	0.750 $^{+0}_{-0.0005}$	0.830	1.562	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 11 2_S05 M05	3.740 *95*	14.59 *370.5*	17.19 *436.5*	4.764 *121*	22 / *10*
C 11 2_S1 M1	4.252 *108*	15.73 *399.5*	18.13 *460.5*	5.433 *138*	29 / *13*
C 11 2_S2 M2S	4.685 *119*	16.87 *428.5*	19.63 *498.5*	6.142 *156*	40 / *18*
C 11 2_S3 M3S	5.591 *142*	18.56 *471.5*	22.34 *567.5*	7.677 *195*	55 / *25*
C 11 2_S3 M3L	5.591 *142*	19.82 *503.5*	23.41 *594.5*	7.677 *195*	60 / *27*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	SA	OA
C 11 2	3.228 *82*	5.295 *134.5*

Flange

AF	AJ	AK		BB	BD	BF	GA
4.134 *105*	4.528 *115*	3.740 *95*	-0.0014 -0.0028 *-0.036* *-0.071*	0.118 *3*	5.512 *140*	0.374 *9.5*	0.315 *8*

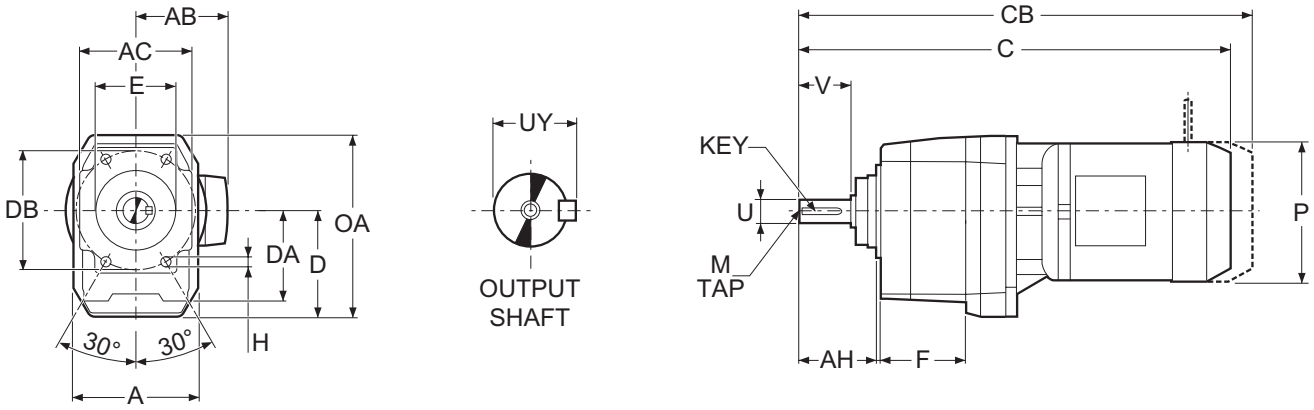
Output shaft (Inch series)

		U	UY	V	Key	M
C 11 2	**NF**	0.750 $^{+0}_{-0.0005}$	0.830	1.562	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 11 2_S05 M05	3.740 *95*	14.59 *370.5*	17.19 *436.5*	4.764 *121*	22 / *10*
C 11 2_S1 M1	4.252 *108*	15.73 *399.5*	18.13 *460.5*	5.433 *138*	29 / *13*
C 11 2_S2 M2S	4.685 *119*	16.87 *428.5*	19.63 *498.5*	6.142 *156*	40 / *18*
C 11 2_S3 M3S	5.591 *142*	18.56 *471.5*	22.34 *567.5*	7.677 *195*	55 / *25*
C 11 2_S3 M3L	5.591 *142*	19.82 *503.5*	23.41 *594.5*	7.677 *195*	60 / *27*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AH	D	DA	DB	E	F	H	OA
C 11 2	3.740 *95*	3.327 *84.5*	2.441 *62*	3.228 *82*	2.677 *68*	3.543 *90*	2.756 *70*	2.106 *53.5*	*M8x12.5 [mm]*	5.433 *138*

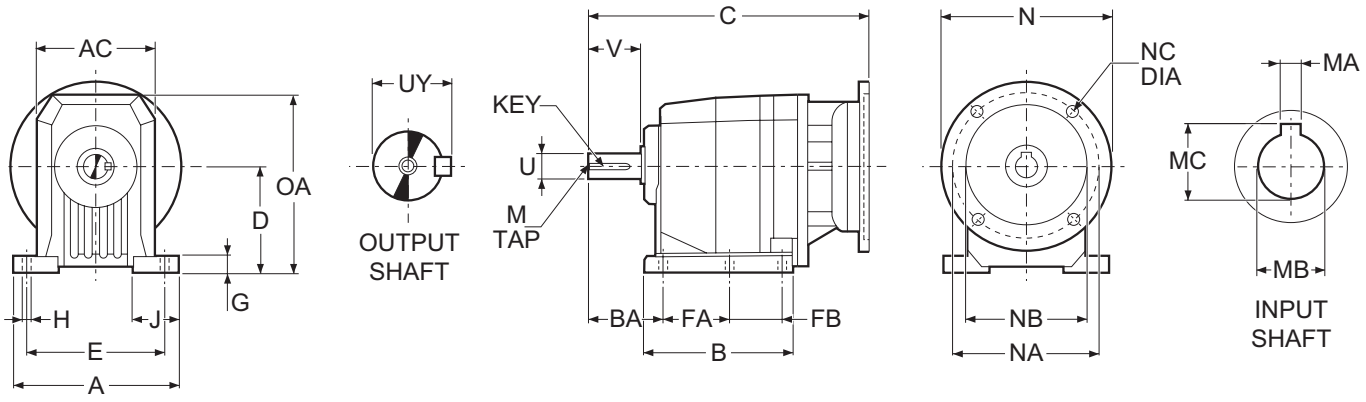
Output shaft (Inch series)

		U		UY	V	Key	M
C 11 2	**NU**	0.750	$^{+0}_{-0.0005}$	0.830	1.562	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 11 2_S05 M05	3.740 *95*	14.59 *370.5*	17.19 *436.5*	4.764 *121*	22 / *10*
C 11 2_S1 M1	4.252 *108*	15.73 *399.5*	18.13 *460.5*	5.433 *138*	29 / *13*
C 11 2_S2 M2S	4.685 *119*	16.87 *428.5*	19.63 *498.5*	6.142 *156*	40 / *18*
C 11 2_S3 M3S	5.591 *142*	18.56 *471.5*	22.34 *567.5*	7.677 *195*	55 / *25*
C 11 2_S3 M3L	5.591 *142*	19.82 *503.5*	23.41 *594.5*	7.677 *195*	60 / *27*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	D	E	FA	FB	G	H	J	OA
C 11 2	5.118	3.740	4.213	2.283	3.346	4.331	1.969	1.457	0.590	0.354	1.457	5.551
	130	*95*	*107*	*58*	*85*	*110*	*50*	*37*	*15*	*9*	*37*	*141*

Output shaft (Inch series)

		U	UY	V	Key	M
C 11 2	**NP**	0.750 $^{+0}_{-0.0005}$	0.830	1.562	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC

NEMA Flange

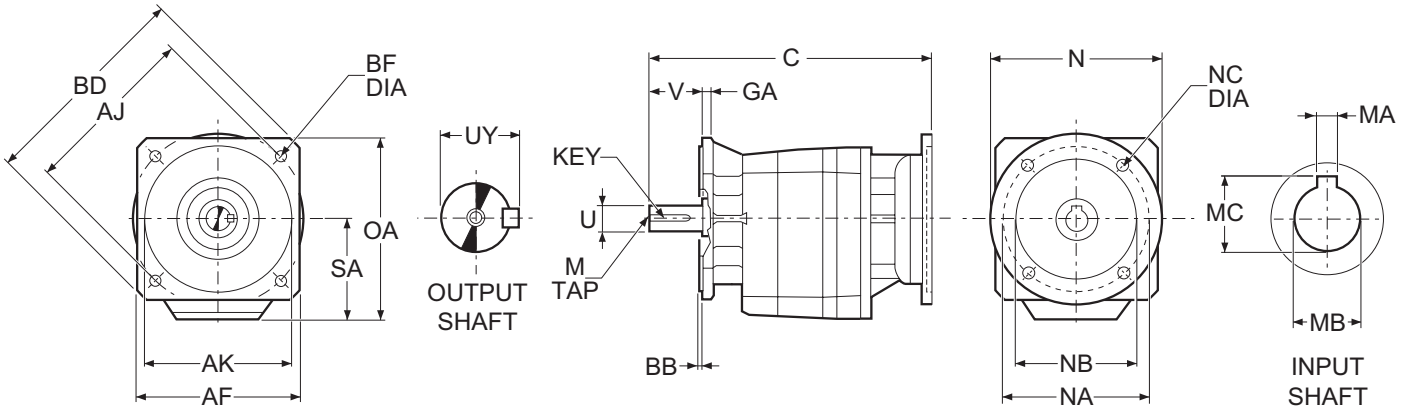
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	13 / *6*
N140TC	6.496	5.875	4.500	0.394	15 / *7*
N180TC	8.996	7.250	8.500	0.551	24 / *11*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241

	C		
	N56C	**N140TC**	**N180TC**
C 11 2	10.41	10.41	10.95
	264.5	*264.5*	*278*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	SA	OA
C 11 2	3.228	5.295
	82	*134.5*

Flange

AF	AJ	AK	BB	BD	BF	GA
4.134	4.528	3.740 $^{-0.0014}_{-0.0028}$	0.118	5.512	0.374	0.315
105	*115*	*95* $^{-0.036}_{-0.071}$	*3*	*140*	*9.5*	*8*

Output shaft (Inch series)

		U	UY	V	Key	M
C 11 2	**NF**	0.750 $^{+0}_{-0.0005}$	0.830	1.562	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC

NEMA Flange

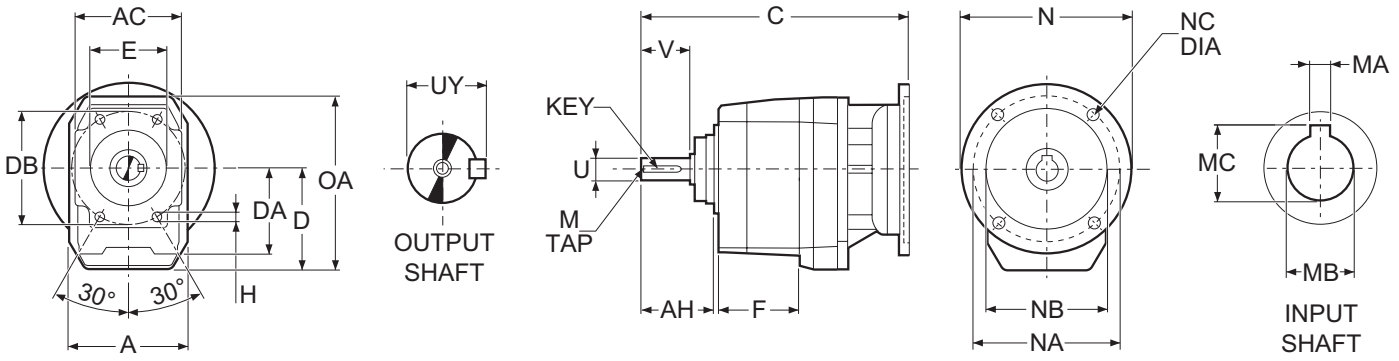
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	13 / *6*
N140TC	6.496	5.875	4.500	0.394	15 / *7*
N180TC	8.996	7.250	8.500	0.551	24 / *11*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241

	C		
	N56C	**N140TC**	**N180TC**
C 11 2	10.41	10.41	10.95
	264.5	*264.5*	*278*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AH	D	DA	DB	E	F	H	OA
C 11 2	3.740 *95*	3.327 *84.5*	2.441 *62*	3.228 *82*	2.677 *68*	3.543 *90*	2.756 *70*	2.106 *53.5*	*M8x12.5 [mm]*	5.433 *138*

Output shaft (Inch series)

		U	UY	V	Key	M
C 11 2	**NU**	0.750 $^{+0}_{-0.0005}$	0.830	1.562	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC

NEMA Flange

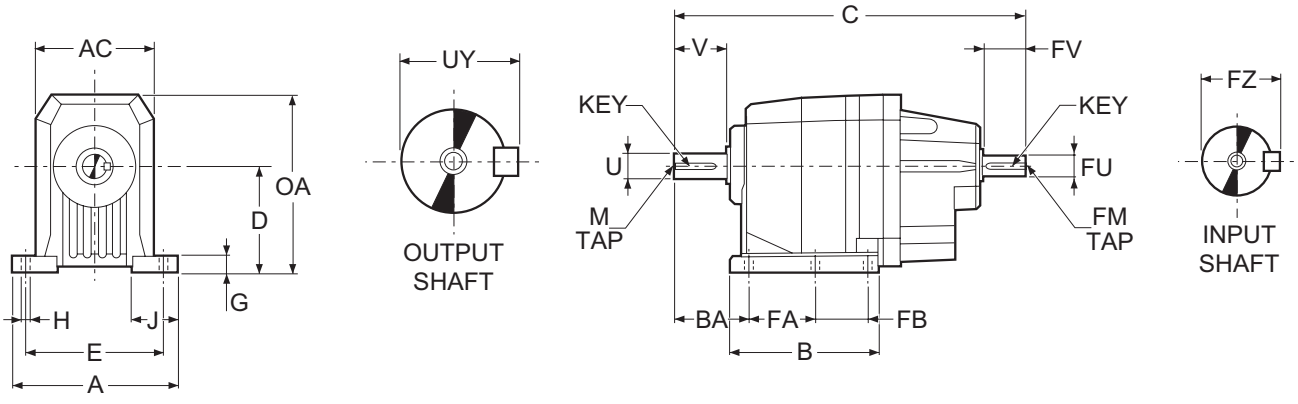
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	13 / *6*
N140TC	6.496	5.875	4.500	0.394	15 / *7*
N180TC	8.996	7.250	8.500	0.551	24 / *11*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241

	C		
	N56C	**N140TC**	**N180TC**
C 11 2	10.41 *264.5*	10.41 *264.5*	10.95 *278*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	C	D	E	FA	FB	G	H	J	OA
C 11 2	5.118	3.740	4.213	2.283	9.90	3.346	4.331	1.969	1.457	0.590	0.354	1.457	5.551
	130	*95*	*107*	*58*	*251.5*	*85*	*110*	*50*	*37*	*15*	*9*	*37*	*141*

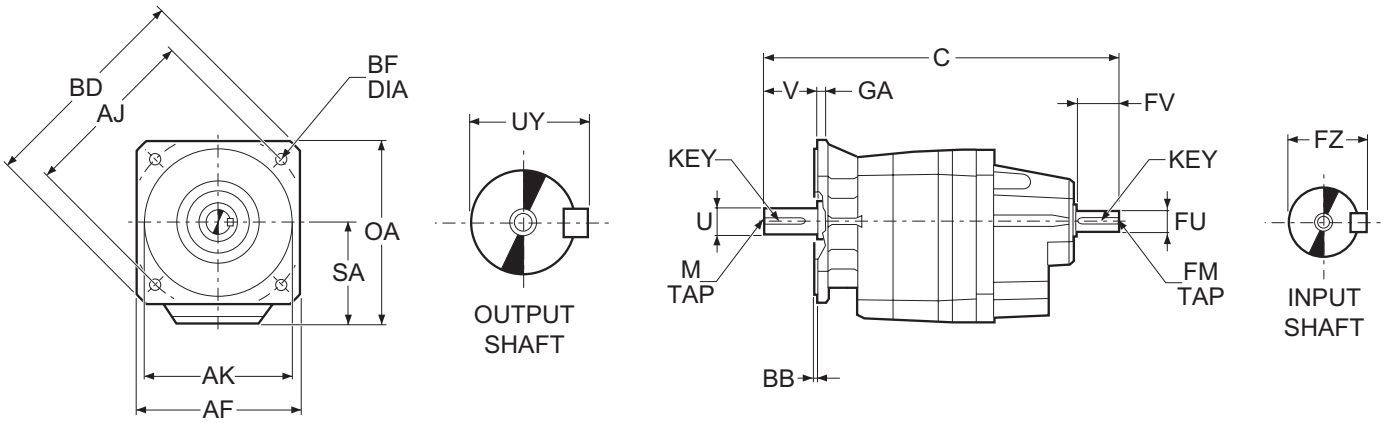
Output shaft (Inch series)

		U	UY	V	Key	M
C 11 2	**NP**	0.750 $^{+0}_{-0.0005}$	0.830	1.562	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 11 2	**NHS**	0.625 $^{+0}_{-0.0004}$	0.710	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	10 / *4.8*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	C	SA	OA
C 11 2	9.90	3.228	5.295
	251.5	*82*	*134.5*

Flange

AF	AJ	AK		BB	BD	BF	GA
4.134	4.528	3.740	-0.0014 -0.0028	0.118	5.512	0.374	0.315
105	*115*	*95*	*-0.036* *-0.071*	*3*	*140*	*9.5*	*8*

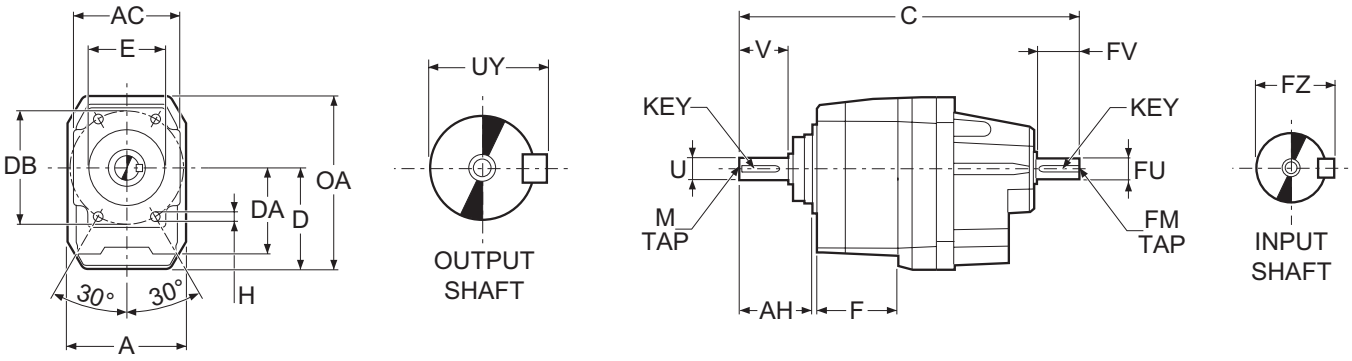
Output shaft (Inch series)

		U		UY	V	Key	M
C 11 2	**NF**	0.750	$^{+0}_{-0.0005}$	0.830	1.562	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC

Input shaft (Inch series)

		FU		FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 11 2	**NHS**	0.625	$^{+0}_{-0.0004}$	0.710	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	10 / *4.5*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AH	C	D	DA	DB	E	F	H	OA
C 11 2	3.740 *95*	3.327 *84.5*	2.441 *62*	9.90 *251.5*	3.228 *82*	2.677 *68*	3.543 *90*	2.756 *70*	2.106 *53.5*	*M8x12.5 [mm]*	5.433 *138*

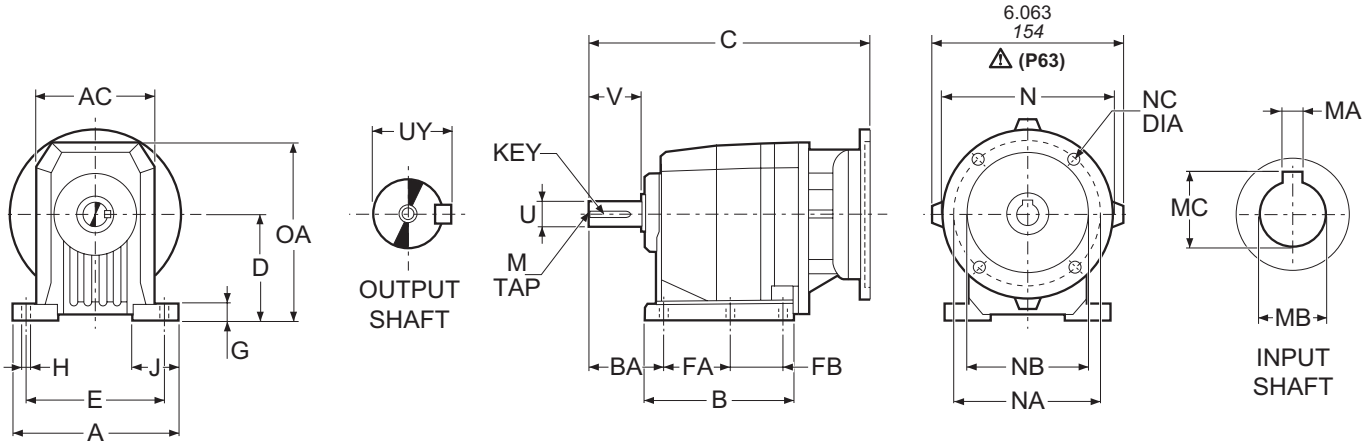
Output shaft (Inch series)

		U	UY	V	Key	M
C 11 2	**NU**	0.750 $^{+0}_{-0.0005}$	0.830	1.562	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 11 2	**NHS**	0.625 $^{+0}_{-0.0004}$	0.710	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	9 / *4.3*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	D	E	FA	FB	G	H	J	OA
C 11 2	5.118	3.740	4.213	2.283	3.346	4.331	1.969	1.457	0.590	0.354	1.457	5.551
	130	*95*	*107*	*58*	*85*	*110*	*50*	*37*	*15*	*9*	*37*	*141*

Output shaft (Inch series)

		U	UY	V	Key	M
C 11 2	**NP**	0.750 $^{+0}_{-0.0005}$	0.830	1.562	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC

IEC Flange

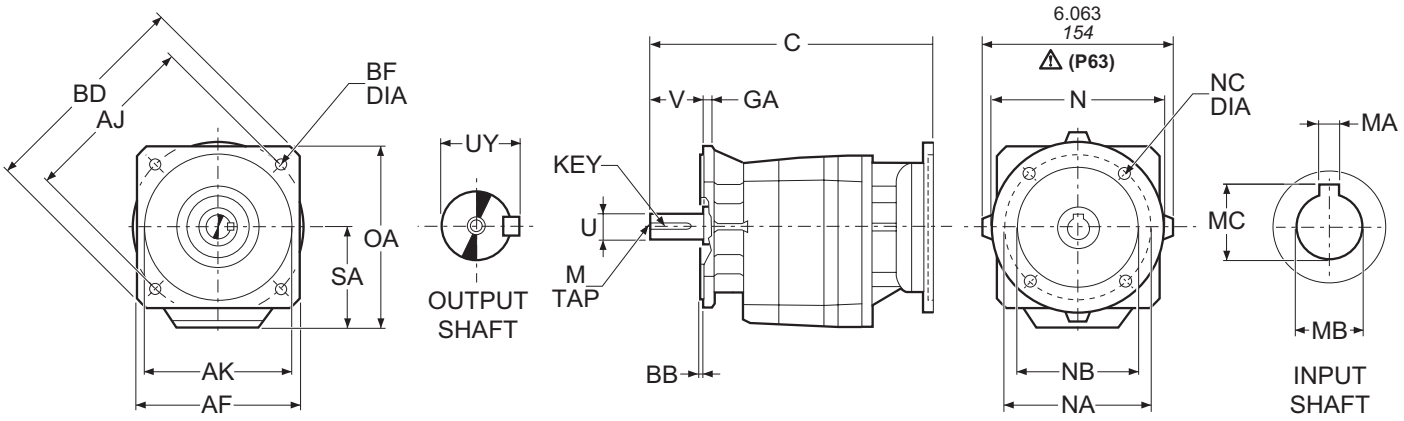
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	13 / *6*
P71	*160*	*130*	*110*	*M8x16*	13 / *6*
P80, P90	*200*	*165*	*130*	*M10x12*	15 / *7*
P100, P112	*250*	*215*	*180*	*M12x16*	24 / *11*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*

	C		
	P63 P71	**P80 P90**	**P100 P112**
C 11 2	9.63	10.39	10.79
	244.5	*264*	*274*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	SA	OA
C 11 2	3.228	5.295
	82	*134.5*

Flange

AF	AJ	AK	BB	BD	BF	GA
4.134	4.528	3.740 $^{-0.0014}_{-0.0028}$	0.118	5.512	0.374	0.315
105	*115*	*95* $^{-0.036}_{-0.071}$	*3*	*140*	*9.5*	*8*

Output shaft (Inch series)

		U	UY	V	Key	M
C 11 2	**NF**	0.750 $^{+0}_{-0.0005}$	0.830	1.562	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC

IEC Flange

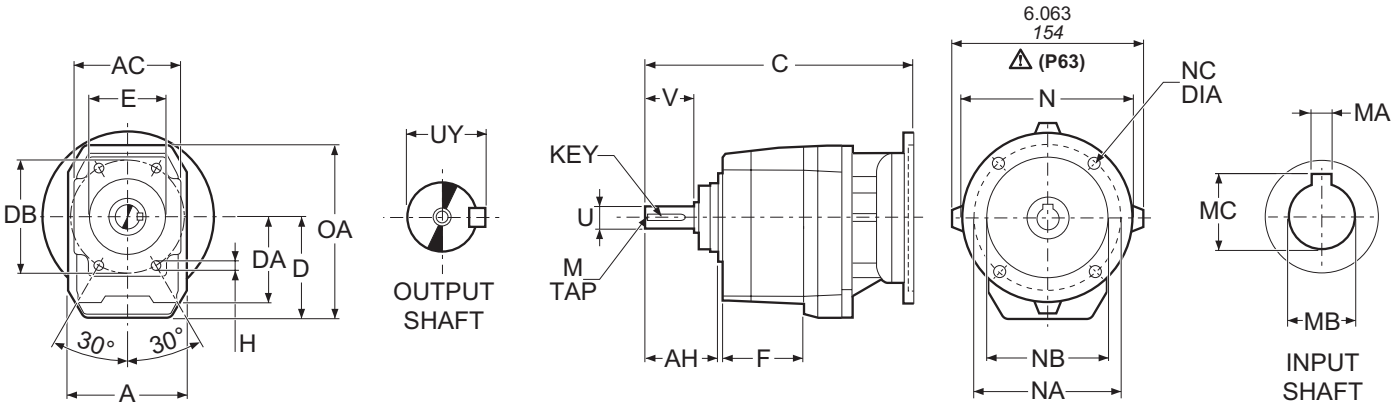
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	13 / *6*
P71	*160*	*130*	*110*	*M8x16*	13 / *6*
P80, P90	*200*	*165*	*130*	*M10x12*	15 / *7*
P100, P112	*250*	*215*	*180*	*M12x16*	24 / *11*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*

	C		
	P63 P71	**P80 P90**	**P100 P112**
C 11 2	9.63	10.39	10.79
	244.5	*264*	*274*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AH	D	DA	DB	E	F	H	OA
C 11 2	3.740 *95*	3.327 *84.5*	2.441 *62*	3.228 *82*	2.677 *68*	3.543 *90*	2.756 *70*	2.106 *53.5*	*M8x12.5 [mm]*	5.433 *138*

Output shaft (Inch series)

		U	UY	V	Key	M
C 11 2	**NU**	0.750 $^{+0}_{-0.0005}$	0.830	1.562	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC

IEC Flange

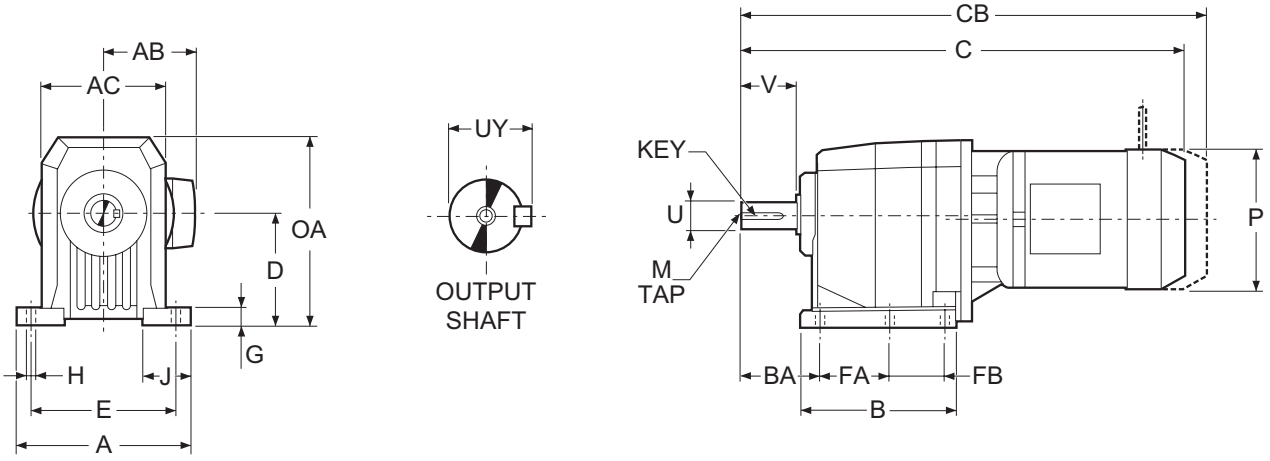
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	13 / *6*
P71	*160*	*130*	*110*	*M8x16*	13 / *6*
P80, P90	*200*	*165*	*130*	*M10x12*	15 / *7*
P100, P112	*250*	*215*	*180*	*M12x16*	24 / *11*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*

	C		
	P63 P71	**P80 P90**	**P100 P112**
C 11 2	9.63 *244.5*	10.39 *264*	10.79 *274*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	D	E	FA	FB	G	H	J	OA
C 21 2, C 21 3	6.102 *155*	4.331 *110*	5.394 *137*	2.677 *68*	3.937 *100*	5.118 *130*	2.362 *60*	1.870 *47.5*	0.669 *17*	0.433 *11*	1.772 *45*	6.535 *166*

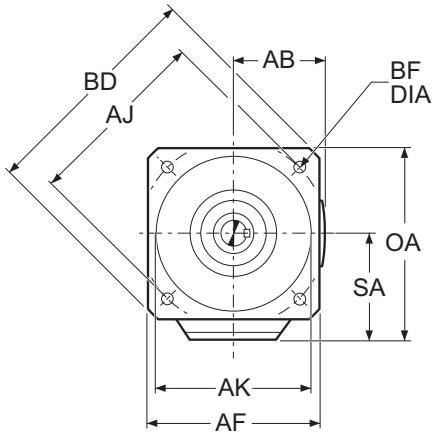
Output shaft (Inch series)

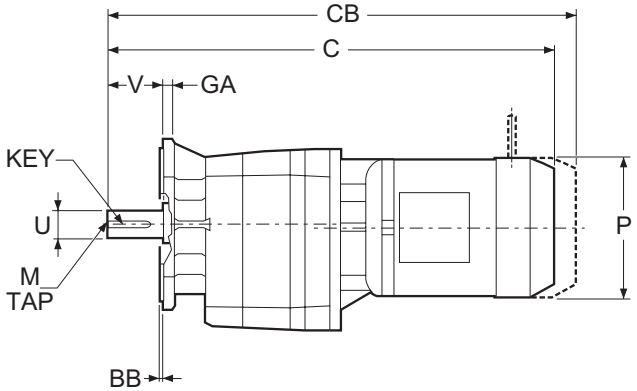
		U	UY	V	Key	M
C 21 2, C 21 3	**NP**	1.000 $^{+0}_{-0.0005}$	1.110	2.000	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 21 2_S05 M05	3.740 *95*	15.75 *400*	18.35 *466*	4.764 *121*	29 / *13*
C 21 2_S1 M1	4.252 *108*	16.85 *428*	19.25 *489*	5.433 *138*	31 / *14*
C 21 2_S2 M2S	4.685 *119*	17.99 *457*	20.75 *527*	6.142 *156*	42 / *19*
C 21 2_S3 M3S	5.591 *142*	19.69 *500*	23.47 *596*	7.677 *195*	57 / *26*
C 21 2_S3 M3L	5.591 *142*	20.95 *532*	24.53 *623*	7.677 *195*	71 / *32*
C 21 3_S05 M05	3.740 *95*	17.89 *454.5*	20.49 *520.5*	4.764 *121*	27 / *12*
C 21 3_S1 M1	4.252 *108*	19.04 *483.5*	21.44 *544.5*	5.433 *138*	33 / *15*
C 21 3_S2 M2S	4.685 *119*	20.22 *513.5*	22.97 *583.5*	6.142 *156*	42 / *19*
C 21 3_S3 M3S	5.591 *142*	21.91 *556.5*	25.69 *652.5*	7.677 *195*	57 / *26*
C 21 3_S3 M3L	5.591 *142*	23.17 *588.5*	26.75 *679.5*	7.677 *195*	71 / *32*

Dimensions are $\frac{\text{inch}}{mm}$





Gearcase

	SA	OA
C 21 2, C 21 3	3.701 *94*	6.161 *156.5*

Flange

AF	AJ	AK		BB	BD	BF	GA
4.921 *125*	5.118 *130*	4.331 *110*	-0.0014 -0.0028 *-0.036* *-0.071*	0.138 *3.5*	6.299 *160*	0.374 *9.5*	0.394 *10*

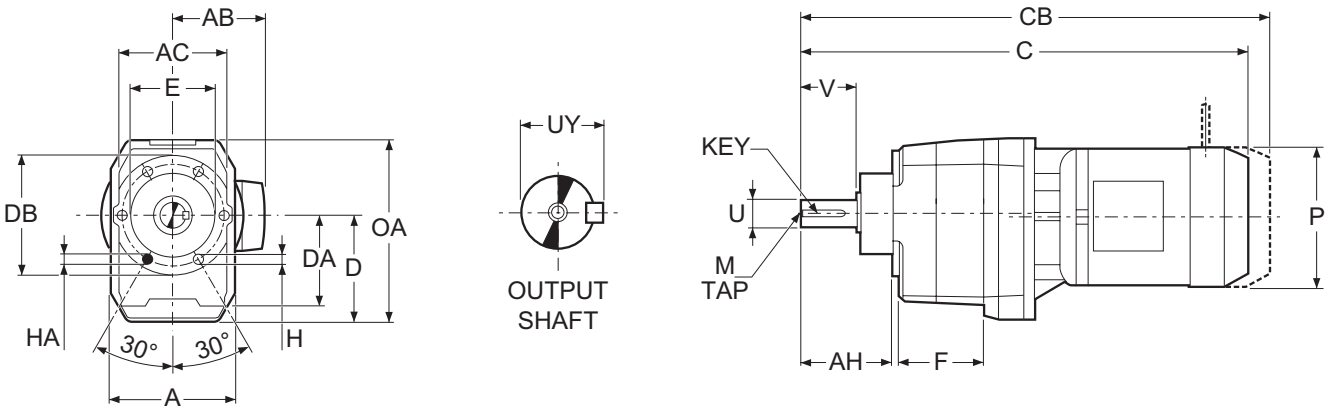
Output shaft (Inch series)

		U	UY	V	Key	M
C 21 2, C 21 3	**NF**	1.000 $^{+0}_{-0.0005}$	1.110	2.000	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 21 2_S05 M05	3.740 *95*	15.75 *400*	18.35 *466*	4.764 *121*	29 / *13*
C 21 2_S1 M1	4.252 *108*	16.85 *428*	19.25 *489*	5.433 *138*	31 / *14*
C 21 2_S2 M2S	4.685 *119*	17.99 *457*	20.75 *527*	6.142 *156*	42 / *19*
C 21 2_S3 M3S	5.591 *142*	19.69 *500*	23.47 *596*	7.677 *195*	57 / *26*
C 21 2_S3 M3L	5.591 *142*	20.95 *532*	24.53 *623*	7.677 *195*	71 / *32*
C 21 3_S05 M05	3.740 *95*	17.89 *454.5*	20.49 *520.5*	4.764 *121*	27 / *12*
C 21 3_S1 M1	4.252 *108*	19.04 *483.5*	21.44 *544.5*	5.433 *138*	33 / *15*
C 21 3_S2 M2S	4.685 *119*	20.22 *513.5*	22.97 *583.5*	6.142 *156*	42 / *19*
C 21 3_S3 M3S	5.591 *142*	21.91 *556.5*	25.69 *652.5*	7.677 *195*	57 / *26*
C 21 3_S3 M3L	5.591 *142*	23.17 *588.5*	26.75 *679.5*	7.677 *195*	71 / *32*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AH	D	DA	DB	E	F	H	HA	OA
C 21 2, C 21 3	4.331 *110*	3.543 *90*	3.189 *81*	3.622 *92*	3.012 *76.5*	4.134 *105*	2.756 *70*	2.815 *71.5*	*M8x12.5 [mm]*	*M8x8.5 [mm]*	6.220 *158*

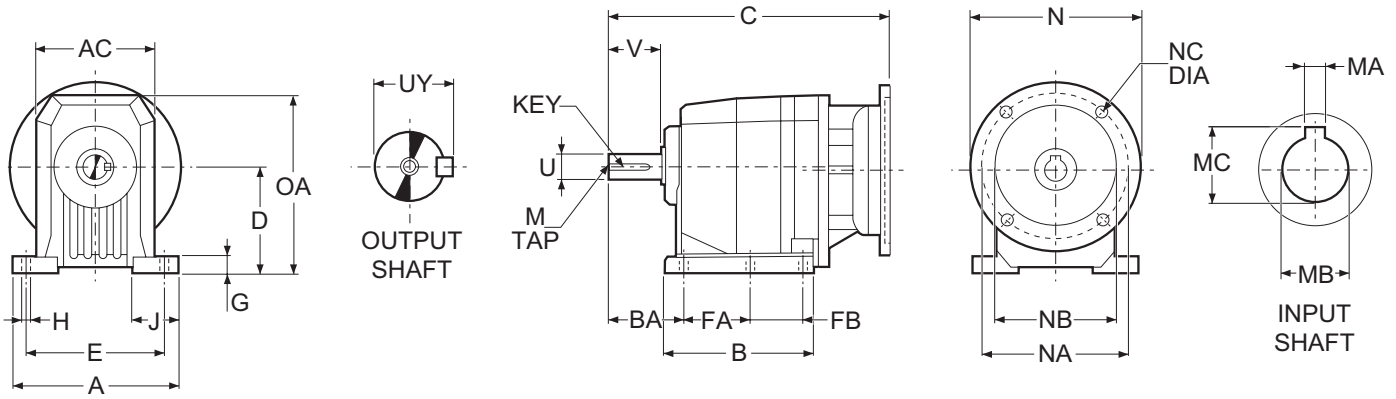
Output shaft (Inch series)

		U	UY	V	Key	M
C 21 2, C 21 3	**NU**	1.000 $^{+0}_{-0.0005}$	1.110	2.000	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 21 2_S05 M05	3.740 *95*	15.75 *400*	18.35 *466*	4.764 *121*	29 / *13*
C 21 2_S1 M1	4.252 *108*	16.85 *428*	19.25 *489*	5.433 *138*	31 / *14*
C 21 2_S2 M2S	4.685 *119*	17.99 *457*	20.75 *527*	6.142 *156*	42 / *19*
C 21 2_S3 M3S	5.591 *142*	19.69 *500*	23.47 *596*	7.677 *195*	57 / *26*
C 21 2_S3 M3L	5.591 *142*	20.95 *532*	24.53 *623*	7.677 *195*	71 / *32*
C 21 3_S05 M05	3.740 *95*	17.89 *454.5*	20.49 *520.5*	4.764 *121*	27 / *12*
C 21 3_S1 M1	4.252 *108*	19.04 *483.5*	21.44 *544.5*	5.433 *138*	33 / *15*
C 21 3_S2 M2S	4.685 *119*	20.22 *513.5*	22.97 *583.5*	6.142 *156*	42 / *19*
C 21 3_S3 M3S	5.591 *142*	21.91 *556.5*	25.69 *652.5*	7.677 *195*	57 / *26*
C 21 3_S3 M3L	5.591 *142*	23.17 *588.5*	26.75 *679.5*	7.677 *195*	71 / *32*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	D	E	FA	FB	G	H	J	OA
C 21 2, C 21 3	6.102	4.331	5.394	2.677	3.937	5.118	2.362	1.870	0.669	0.433	1.772	6.535
	155	*110*	*137*	*68*	*100*	*130*	*60*	*47.5*	*17*	*11*	*45*	*166*

Output shaft (Inch series)

		U	UY	V	Key	M
C 21 2, C 21 3	**NP**	1.000 $^{+0}_{-0.0005}$	1.110	2.000	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

NEMA Flange

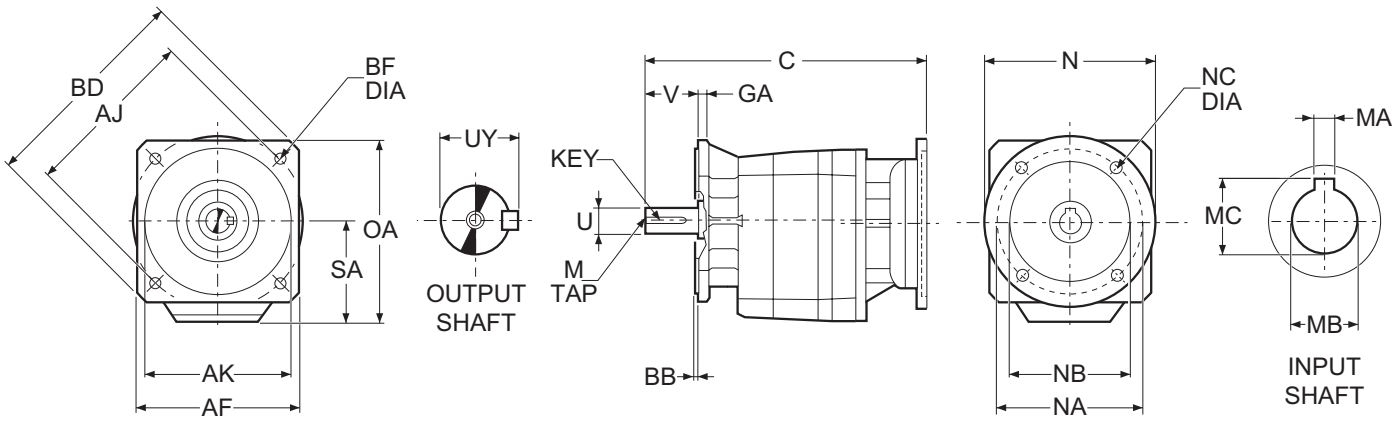
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	18 / *8*
N140TC	6.496	5.875	4.500	0.394	20 / *9*
N180TC	8.996	7.250	8.500	0.551	29 / *13*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241

	C		
	N56C	**N140TC**	**N180TC**
C 21 2	11.57	11.57	12.10
	293.8	*293.8*	*307.3*
C 21 3	13.75	13.75	14.28
	349.3	*349.3*	*362.8*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	SA	OA
C 21 2, C 21 3	3.701	6.161
	94	*156.5*

Flange

AF	AJ	AK		BB	BD	BF	GA
4.921	5.118	4.331	-0.0014 -0.0028	0.138	6.299	0.374	0.394
125	*130*	*110*	*-0.036* *-0.071*	*3.5*	*160*	*9.5*	*10*

Output shaft (Inch series)

		U		UY	V	Key	M
C 21 2, C 21 3	**NF**	1.000	$^{+0}_{-0.0005}$	1.110	2.000	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

NEMA Flange

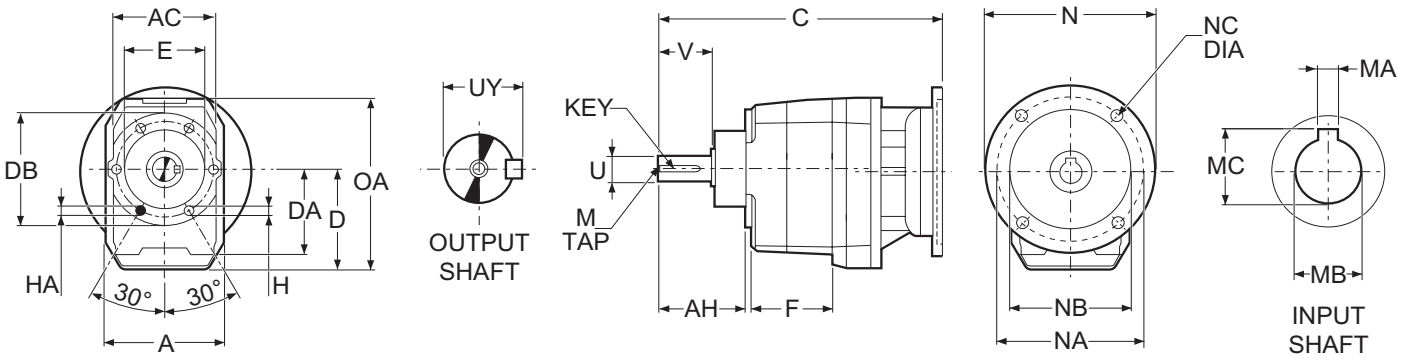
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	18 / *8*
N140TC	6.496	5.875	4.500	0.394	20 / *9*
N180TC	8.996	7.250	8.500	0.551	29 / *13*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241

	C		
	N56C	**N140TC**	**N180TC**
C 21 2	11.57	11.57	12.10
	293.8	*293.8*	*307.3*
C 21 3	13.75	13.75	14.28
	349.3	*349.3*	*362.8*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AH	D	DA	DB	E	F	H	HA	OA
C 21 2, C 21 3	4.331 *110*	3.543 *90*	3.189 *81*	3.622 *92*	3.012 *76.5*	4.134 *105*	2.756 *70*	2.815 *71.5*	*M8x12.5 [mm]*	*M8x8.5 [mm]*	6.220 *158*

Output shaft (Inch series)

		U	UY	V	Key	M
C 21 2, C 21 3	**NU**	1.000 $^{+0}_{-0.0005}$	1.110	2.000	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

NEMA Flange

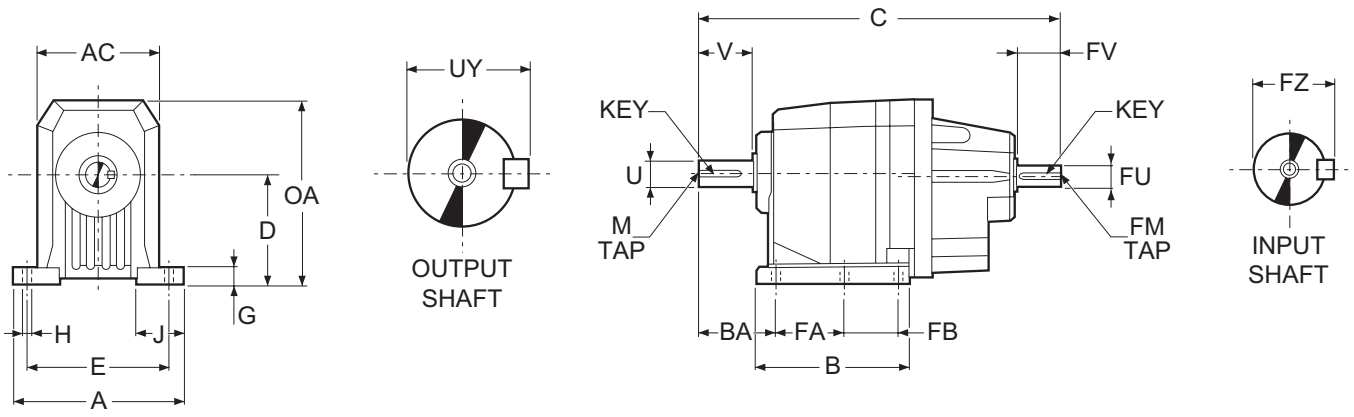
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	18 / *8*
N140TC	6.496	5.875	4.500	0.394	20 / *9*
N180TC	8.996	7.250	8.500	0.551	29 / *13*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241

	C		
	N56C	**N140TC**	**N180TC**
C 21 2	11.57 *293.8*	11.57 *293.8*	12.10 *307.3*
C 21 3	13.75 *349.3*	13.75 *349.3*	14.28 *362.8*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	C	D	E	FA	FB	G	H	J	OA
C 21 2	6.102	4.331	5.394	2.677	12.75	3.937	5.118	2.362	1.870	0.669	0.433	1.772	6.535
	155	*110*	*137*	*68*	*323.8*	*100*	*130*	*60*	*47.5*	*17*	*11*	*45*	*166*
C 21 3	6.102	4.331	5.394	2.677	13.23	3.937	5.118	2.362	1.870	0.669	0.433	1.772	6.535
	155	*110*	*137*	*68*	*336.1*	*100*	*130*	*60*	*47.5*	*17*	*11*	*45*	*166*

Output shaft (Inch series)

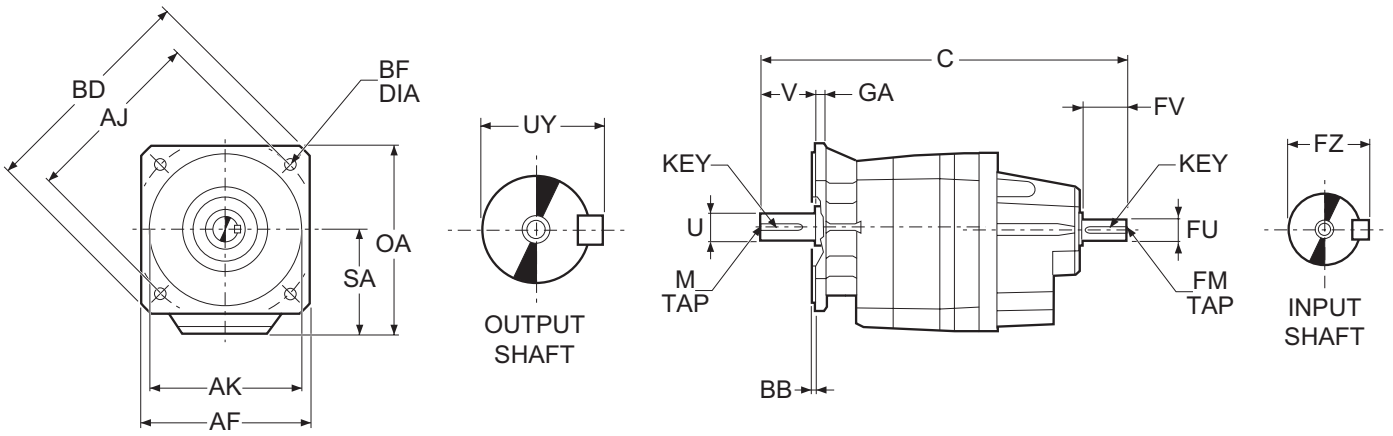
		U	UY	V	Key	M
C 21 2, C 21 3	**NP**	1.000 $^{+0}_{-0.0005}$	1.110	2.000	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 21 2	**NHS**	0.750 $^{+0}_{-0.0005}$	0.830	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	16 / *7.2*
C 21 3	**NHS**	0.625 $^{+0}_{-0.0004}$	0.710	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	16 / *7.5*

Dimensions are $\frac{\text{inch}}{mm}$

Flange mounted, solid input shaft C 21 2 C 21 3



Gearcase

	C	SA	OA
C 21 2	12.75	3.701	6.161
	323.8	*94*	*156.5*
C 21 3	13.23	3.701	6.161
	336.1	*94*	*156.5*

Flange

AF	AJ	AK	BB	BD	BF	GA
4.921	5.118	4.331 $^{-0.0014}_{-0.0028}$	0.138	6.299	0.374	0.394
125	*130*	*110* $^{-0.036}_{-0.071}$	*3.5*	*160*	*9.5*	*10*
4.921	5.118	4.331 $^{-0.0014}_{-0.0028}$	0.138	6.299	0.374	0.394
125	*130*	*110* $^{-0.036}_{-0.071}$	*3.5*	*160*	*9.5*	*10*

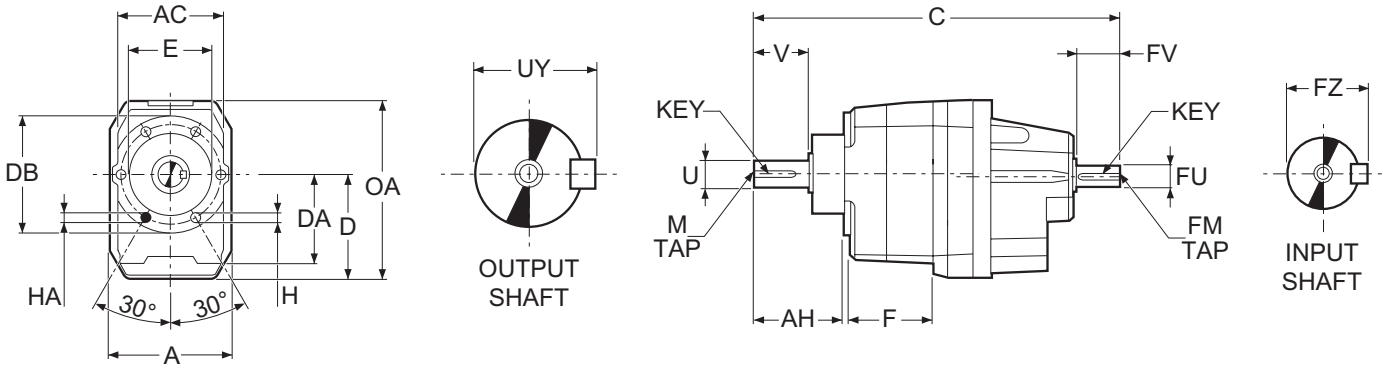
Output shaft (Inch series)

		U	UY	V	Key	M
C 21 2, C 21 3	**NF**	1.000 $^{+0}_{-0.0005}$	1.110	2.000	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	Weight [lbs / *kg*]
C 21 2	**NHS**	0.750 $^{+0}_{-0.0005}$	0.830	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	15 / *6.9*
C 21 3	**NHS**	0.625 $^{+0}_{-0.0004}$	0.710	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	16 / *7.2*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AH	C	D	DA	DB	E	F	H	HA	OA
C 21 2	4.331 *110*	3.543 *90*	3.189 *81*	12.75 *323.8*	3.622 *92*	3.012 *76.5*	4.134 *105*	2.756 *70*	2.815 *71.5*	*M8x12.5 [mm]*	*M8x8.5 [mm]*	6.220 *158*
C 21 3	4.331 *110*	3.543 *90*	3.189 *81*	13.23 *336.1*	3.622 *92*	3.012 *76.5*	4.134 *105*	2.756 *70*	2.815 *71.5*	*M8x12.5 [mm]*	*M8x8.5 [mm]*	6.220 *158*

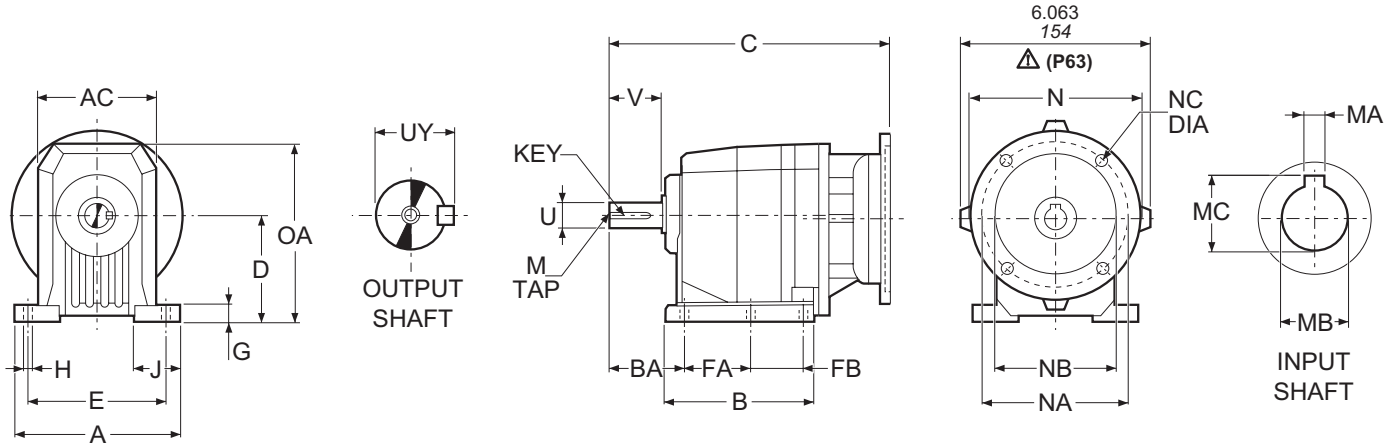
Output shaft (Inch series)

		U		UY	V	Key	M
C 21 2, C 21 3	**NU**	1.000	$^{+0}_{-0.0005}$	1.110	2.000	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

Input shaft (Inch series)

		FU		FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 21 2	**NHS**	0.750	$^{+0}_{0.0005}$	0.830	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	15 / *6.7*
C 21 3	**NHS**	0.625	$^{+0}_{0.0004}$	0.710	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	15 / *7.0*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	D	E	FA	FB	G	H	J	OA
C 21 2, C 21 3	6.102	4.331	5.394	2.677	3.937	5.118	2.362	1.870	0.669	0.433	1.772	6.535
	155	*110*	*137*	*68*	*100*	*130*	*60*	*47.5*	*17*	*11*	*45*	*166*

Output shaft (Inch series)

		U	UY	V	Key	M
C 21 2, C 21 3	**NP**	1.000 $^{+0}_{-0.0005}$	1.110	2.000	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

IEC Flange

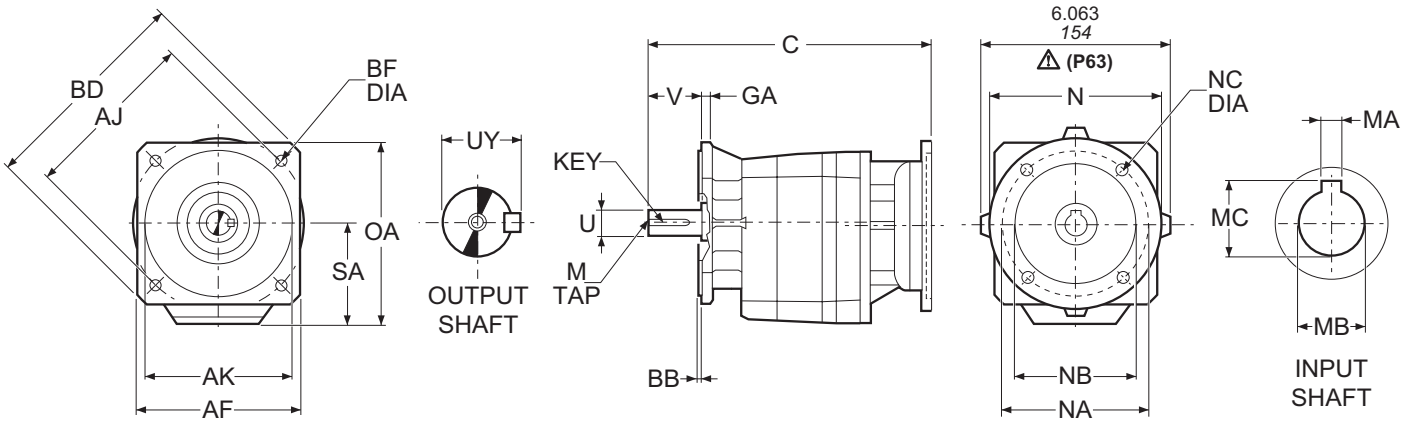
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	18 / *8*
P71	*160*	*130*	*110*	*M8x16*	18 / *8*
P80, P90	*200*	*165*	*130*	*M10x12*	20 / *9*
P100, P112	*250*	*215*	*180*	*M12x16*	29 / *13*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*

	C		
	P63 P71	**P80 P90**	**P100 P112**
C 21 2	10.75	11.52	11.91
	273	*292.5*	*302.5*
C 21 3	12.93	13.70	14.09
	328.5	*348*	*358*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	SA	OA
C 21 2, C 21 3	3.701	6.161
	94	*156.5*

Flange

AF	AJ	AK		BB	BD	BF	GA
4.921	5.118	4.331	-0.0014 -0.0028	0.138	6.299	0.374	0.394
125	*130*	*110*	*-0.036* *-0.071*	*3.5*	*160*	*9.5*	*10*

Output shaft (Inch series)

		U	UY	V	Key	M
C 21 2, C 21 3	**NF**	1.000 $^{+0}_{-0.0005}$	1.110	2.000	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

IEC Flange

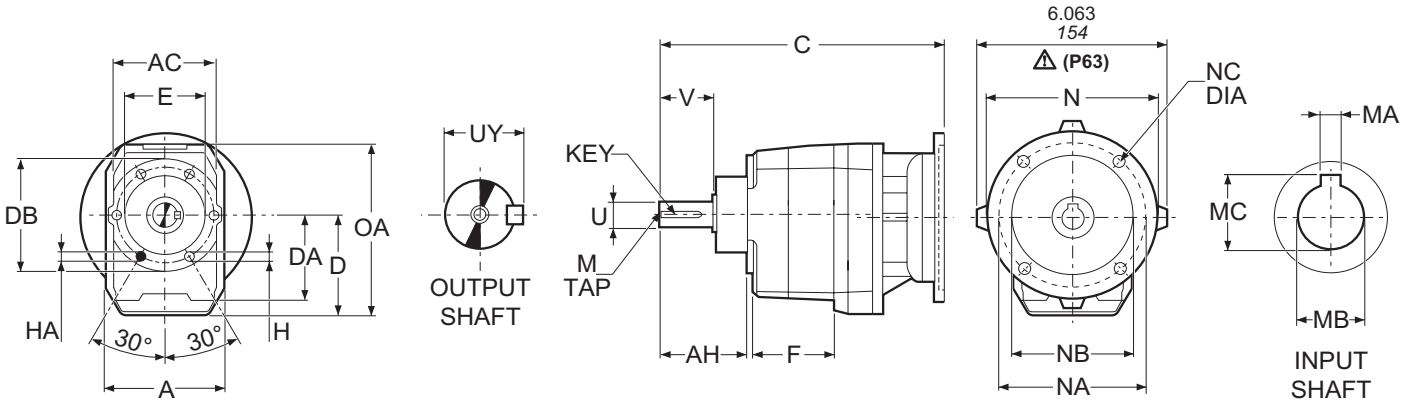
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	18 / *8*
P71	*160*	*130*	*110*	*M8x16*	18 / *8*
P80, P90	*200*	*165*	*130*	*M10x12*	20 / *9*
P100, P112	*250*	*215*	*180*	*M12x16*	29 / *13*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*

	C		
	P63 **P71**	**P80** **P90**	**P100** **P112**
C 21 2	10.75 *273*	11.52 *292.5*	11.91 *302.5*
C 21 3	12.93 *328.5*	13.70 *348*	14.09 *358*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AH	D	DA	DB	E	F	H	HA	OA
C 21 2, C 21 3	4.331 *110*	3.543 *90*	3.189 *81*	3.622 *92*	3.012 *76.5*	4.134 *105*	2.756 *70*	2.815 *71.5*	*M8x12.5 [mm]*	*M8x8.5 [mm]*	6.220 *158*

Output shaft (Inch series)

		U	UY	V	Key	M
C 21 2, C 21 3	**NU**	1.000 $^{+0}_{-0.0005}$	1.110	2.000	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

IEC Flange

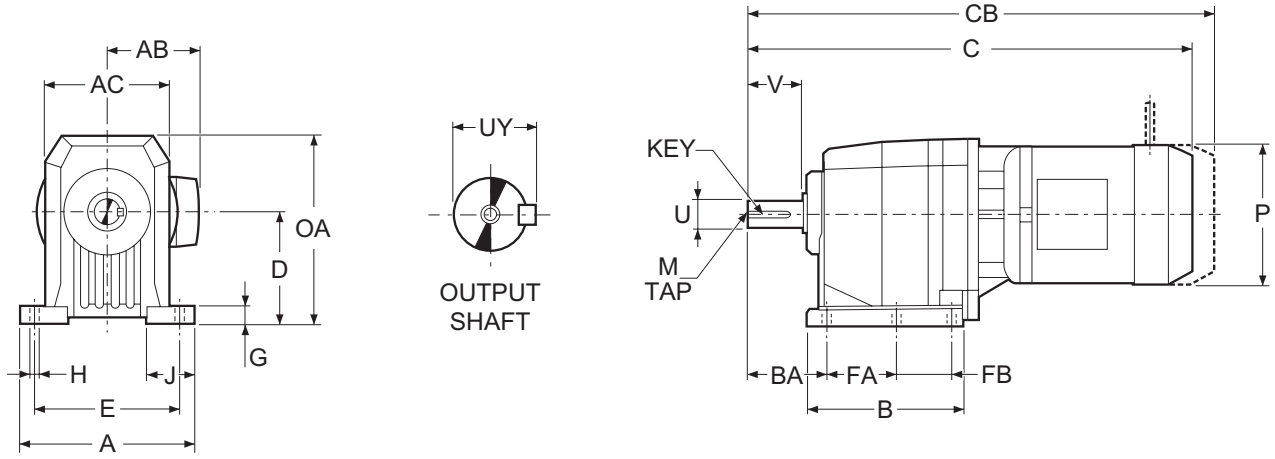
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	18 / *8*
P71	*160*	*130*	*110*	*M8x16*	18 / *8*
P80, P90	*200*	*165*	*130*	*M10x12*	20 / *9*
P100, P112	*250*	*215*	*180*	*M12x16*	29 / *13*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*

	C		
	P63 **P71**	**P80** **P90**	**P100** **P112**
C 21 2	10.75 *273*	11.52 *292.5*	11.91 *302.5*
C 21 3	12.93 *328.5*	13.70 *348*	14.09 *358*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	D	E	FA	FB	G	H	J	OA
C 31 2, C 31 3	7.480 *190*	5.118 *130*	6.142 *156*	3.071 *78*	4.331 *110*	6.299 *160*	2.756 *70*	2.362 *60*	0.787 *20*	0.433 *11*	2.087 *53*	7.126 *181*

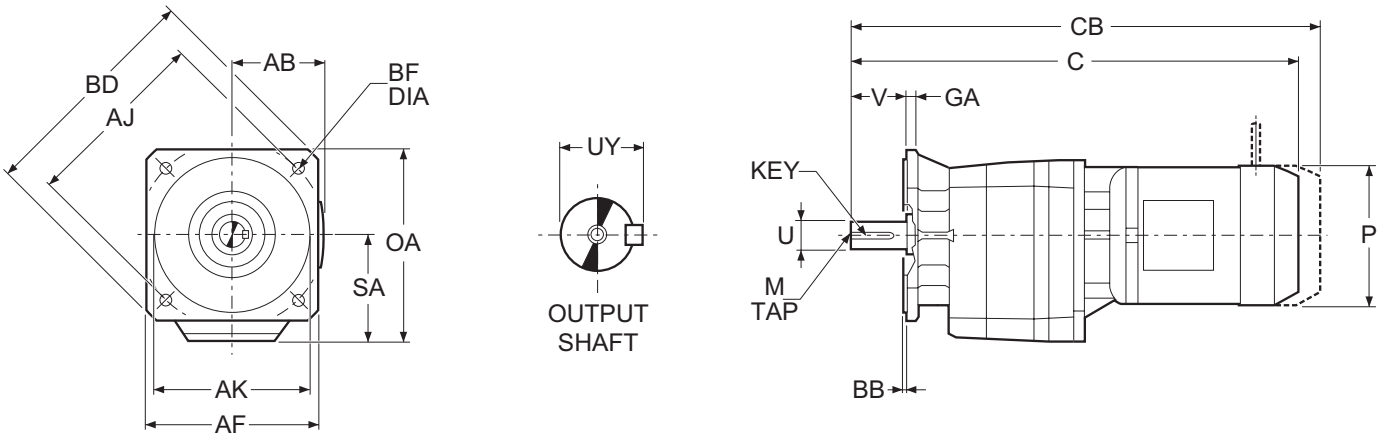
Output shaft (Inch series)

		U	UY	V	Key	M
C 312, C 313	**NP**	1.125 $^{+0}_{-0.0005}$	1.230	2.375	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC

Motor

	AB	C	CB	P	Weight [lbs / *kg*]
C 31 2_S1 M1	4.252 *108*	18.21 *462.5*	20.61 *523.5*	5.433 *138*	35 / *16*
C 31 2_S2 M2S	4.685 *119*	19.35 *491.5*	22.11 *561.5*	6.142 *156*	46 / *21*
C 31 2_S3 M3S	5.591 *142*	21.04 *534.5*	24.82 *630.5*	7.677 *195*	62 / *28*
C 31 2_S3 M3L	5.591 *142*	22.30 *566.5*	25.89 *657.5*	7.677 *195*	82 / *37*
C 31 3_S05 M05	3.740 *95*	19.33 *491*	21.93 *557*	4.764 *121*	33 / *15*
C 31 3_S1 M1	4.252 *108*	20.47 *520*	22.87 *581*	5.433 *138*	38 / *17*
C 31 3_S2 M2S	4.685 *119*	21.61 *549*	24.37 *619*	6.142 *156*	46 / *21*
C 31 3_S3 M3S	5.591 *142*	23.33 *592.5*	27.11 *688.5*	7.677 *195*	62 / *28*
C 31 3_S3 M3L	5.591 *142*	24.59 *624.5*	28.17 *715.5*	7.677 *195*	82 / *37*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	SA	OA
C 31 2, C 31 3	4.252 *108*	7.205 *183*

Flange

AF	AJ	AK		BB	BD	BF	GA
5.906 *150*	6.496 *165*	5.118 *130*	-0.0017 -0.0033 *-0.043* *-0.063*	0.138 *3.5*	7.874 *200*	0.453 *11.5*	0.472 *12*

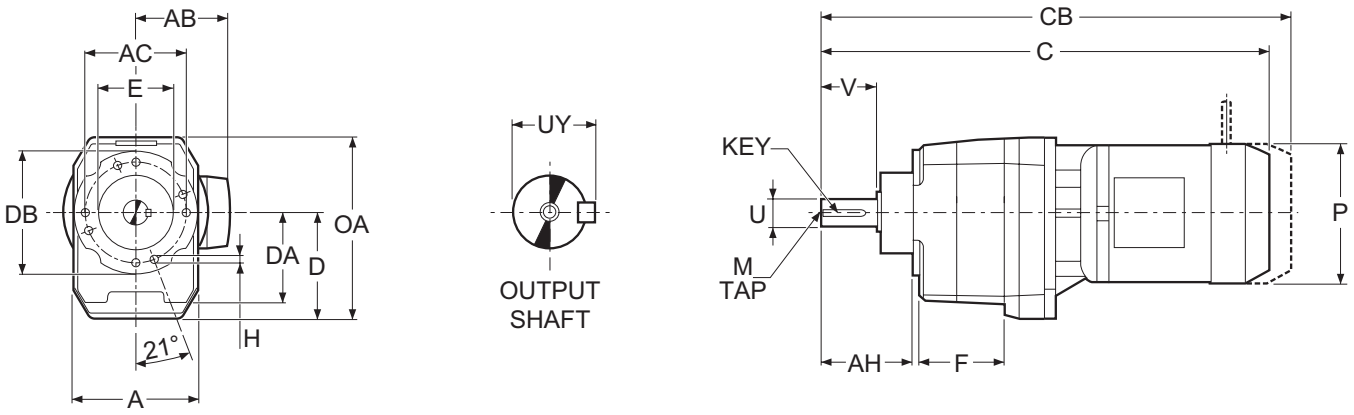
Output shaft (Inch series)

		U		UY	V	Key	M
C 31 2, C 31 3	**NF**	1.125	$^{+0}_{-0.0005}$	1.230	2.375	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC

Motor

	AB	C	CB	P	Weight [lbs / *kg*]
C 31 2_S1 M1	4.252 *108*	18.21 *462.5*	20.61 *523.5*	5.433 *138*	35 / *16*
C 31 2_S2 M2S	4.685 *119*	19.35 *491.5*	22.11 *561.5*	6.142 *156*	46 / *21*
C 31 2_S3 M3S	5.591 *142*	21.04 *534.5*	24.82 *630.5*	7.677 *195*	62 / *28*
C 31 2_S3 M3L	5.591 *142*	22.30 *566.5*	25.89 *657.5*	7.677 *195*	82 / *37*
C 31 3_S05 M05	3.740 *95*	19.33 *491*	21.93 *557*	4.764 *121*	33 / *15*
C 31 3_S1 M1	4.252 *108*	20.47 *520*	22.87 *581*	5.433 *138*	38 / *17*
C 31 3_S2 M2S	4.685 *119*	21.61 *549*	24.37 *619*	6.142 *156*	46 / *21*
C 31 3_S3 M3S	5.591 *142*	23.33 *592.5*	27.11 *688.5*	7.677 *195*	62 / *28*
C 31 3_S3 M3L	5.591 *142*	24.59 *624.5*	28.17 *715.5*	7.677 *195*	82 / *37*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AH	D	DA	DB	E	F	H	OA
C 31 2, C 31 3	5.118 *130*	3.937 *100*	3.780 *96*	4.252 *108*	3.484 *88.5*	4.724 *120*	3.150 *80*	3.425 *87*	*M8x15 [mm]*	7.047 *179*

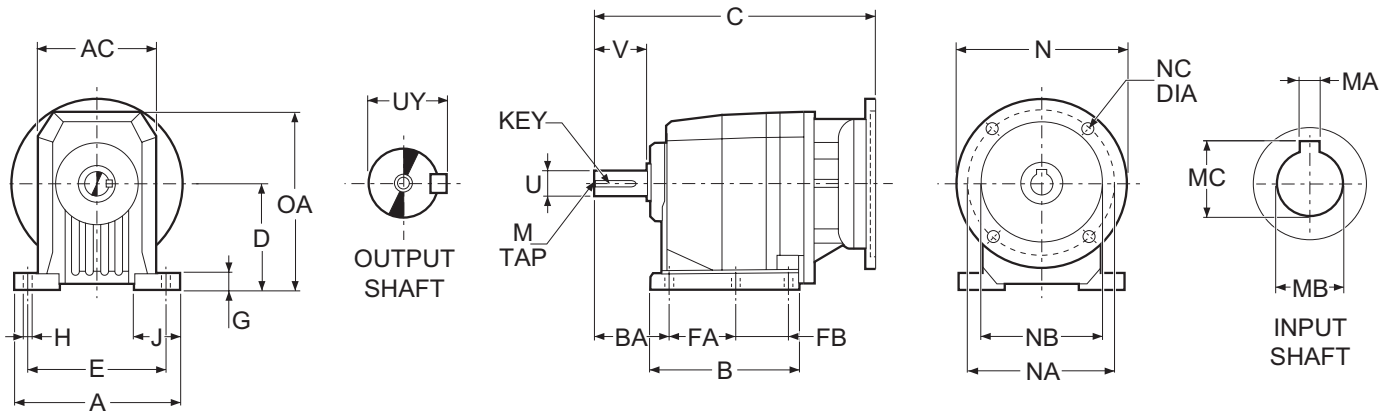
Output shaft (Inch series)

		U	UY	V	Key	M
C 31 2, C 31 3	**NU**	1.125 $^{+0}_{-0.0005}$	1.230	2.375	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 31 2_S1 M1	4.252 *108*	18.21 *462.5*	20.61 *523.5*	5.433 *138*	35 / *16*
C 31 2_S2 M2S	4.685 *119*	19.35 *491.5*	22.11 *561.5*	6.142 *156*	46 / *21*
C 31 2_S3 M3S	5.591 *142*	21.04 *534.5*	24.82 *630.5*	7.677 *195*	62 / *28*
C 31 2_S3 M3L	5.591 *142*	22.30 *566.5*	25.89 *657.5*	7.677 *195*	82 / *37*
C 31 3_S05 M05	3.740 *95*	19.33 *491*	21.93 *557*	4.764 *121*	33 / *15*
C 31 3_S1 M1	4.252 *108*	20.47 *520*	22.87 *581*	5.433 *138*	38 / *17*
C 31 3_S2 M2S	4.685 *119*	21.61 *549*	24.37 *619*	6.142 *156*	46 / *21*
C 31 3_S3 M3S	5.591 *142*	23.33 *592.5*	27.11 *688.5*	7.677 *195*	62 / *28*
C 31 3_S3 M3L	5.591 *142*	24.59 *624.5*	28.17 *715.5*	7.677 *195*	82 / *37*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	D	E	FA	FB	G	H	J	OA
C 31 2, C 31 3	7.480	5.118	6.142	3.071	4.331	6.299	2.756	2.362	0.787	0.433	2.087	7.126
	190	*130*	*156*	*78*	*110*	*160*	*70*	*60*	*20*	*11*	*53*	*181*

Output shaft (Inch series)

		U	UY	V	Key	M
C 31 2, C 31 3	**NP**	1.125 $^{+0}_{-0.0005}$	1.230	2.375	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC

NEMA Flange

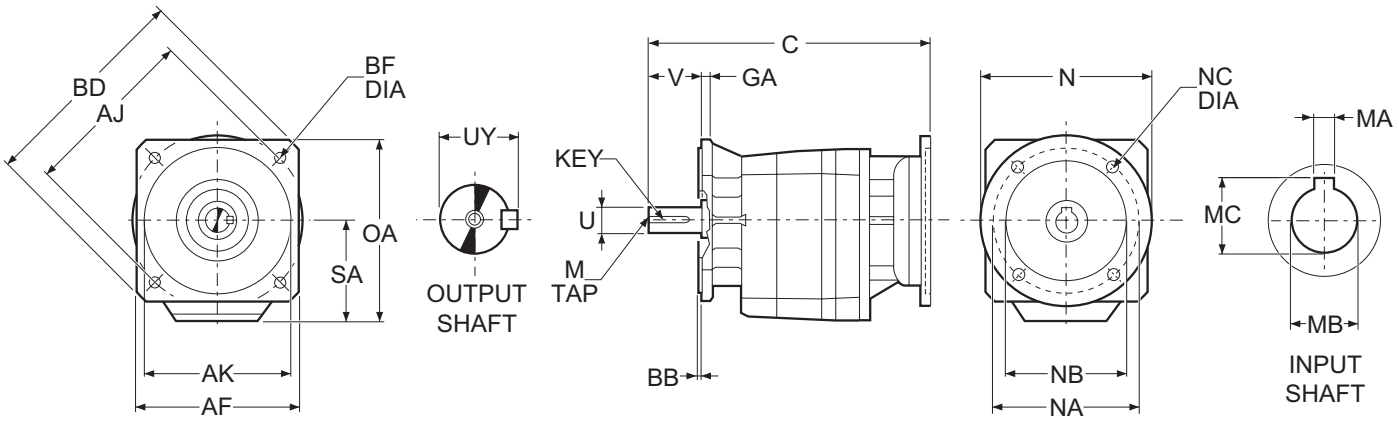
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	22 / *10*
N140TC	6.496	5.875	4.500	0.394	24 / *11*
N180TC	8.996	7.250	8.500	0.551	33 / *15*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241

	C		
	N56C	**N140TC**	**N180TC**
C 31 2	12.89	12.89	13.39
	327.5	*327.5*	*340*
C 31 3	15.16	15.16	15.69
	385	*385*	*398.5*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	SA	OA
C 31 2, C 31 3	4.252	7.205
	108	*183*

Flange

AF	AJ	AK	BB	BD	BF	GA
5.906	6.496	5.118 $^{-0.0017}_{-0.0033}$	0.138	7.874	0.453	0.472
150	*165*	*130* $^{-0.043}_{-0.063}$	*3.5*	*200*	*11.5*	*12*

Output shaft (Inch series)

		U	UY	V	Key	M
C 31 2, C 31 3	**NF**	1.125 $^{+0}_{-0.0005}$	1.230	2.375	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC

NEMA Flange

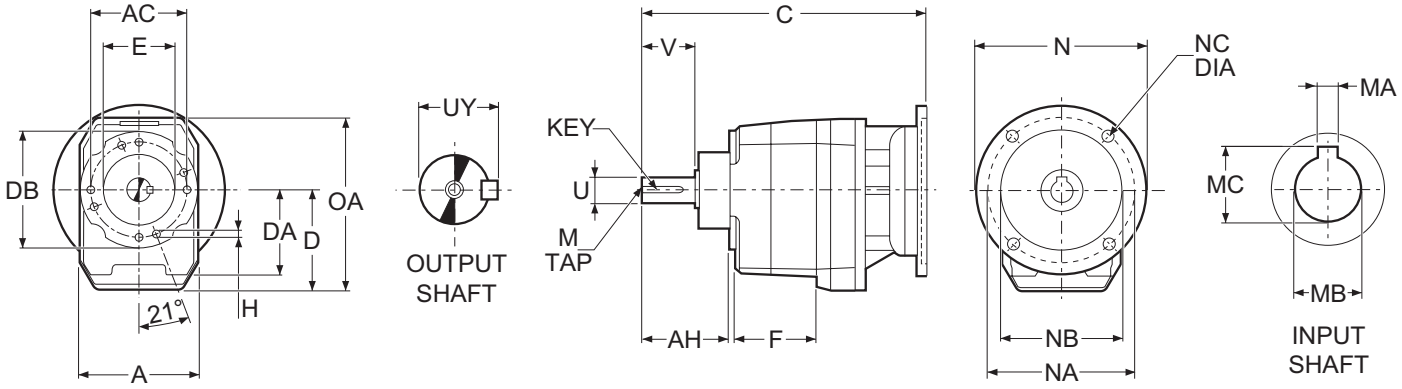
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	22 / *10*
N140TC	6.496	5.875	4.500	0.394	24 / *11*
N180TC	8.996	7.250	8.500	0.551	33 / *15*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241

	C		
	N56C	**N140TC**	**N180TC**
C 31 2	12.89	12.89	13.39
	327.5	*327.5*	*340*
C 31 3	15.16	15.16	15.69
	385	*385*	*398.5*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AH	D	DA	DB	E	F	H	OA
C 31 2, C 31 3	5.118 *130*	3.937 *100*	3.780 *96*	4.252 *108*	3.484 *88.5*	4.724 *120*	3.150 *80*	3.425 *87*	*M8x15 [mm]*	7.047 *179*

Output shaft (Inch series)

		U	UY	V	Key	M
C 31 2, C 31 3	**NU**	1.125 $^{+0}_{-0.0005}$	1.230	2.375	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC

NEMA Flange

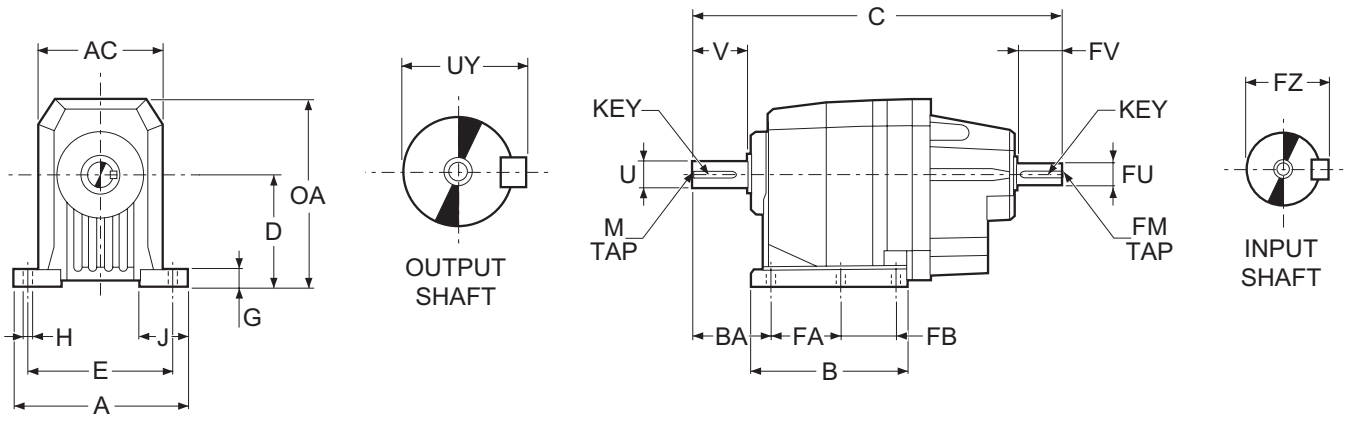
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	22 / *10*
N140TC	6.496	5.875	4.500	0.394	24 / *11*
N180TC	8.996	7.250	8.500	0.551	33 / *15*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241

	C		
	N56C	**N140TC**	**N180TC**
C 31 2	12.89 *327.5*	12.89 *327.5*	13.39 *340*
C 31 3	15.16 *385*	15.16 *385*	15.69 *398.5*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	C	D	E	FA	FB	G	H	J	OA
C 31 2	7.480	5.118	6.142	3.071	14.09	4.331	6.299	2.756	2.362	0.787	0.433	2.087	7.126
	190	*130*	*156*	*78*	*357.8*	*110*	*160*	*70*	*60*	*20*	*11*	*53*	*181*
C 31 3	7.480	5.118	6.142	3.071	14.65	4.331	6.299	2.756	2.362	0.787	0.433	2.087	7.126
	190	*130*	*156*	*78*	*372.1*	*110*	*160*	*70*	*60*	*20*	*11*	*53*	*181*

Output shaft (Inch series)

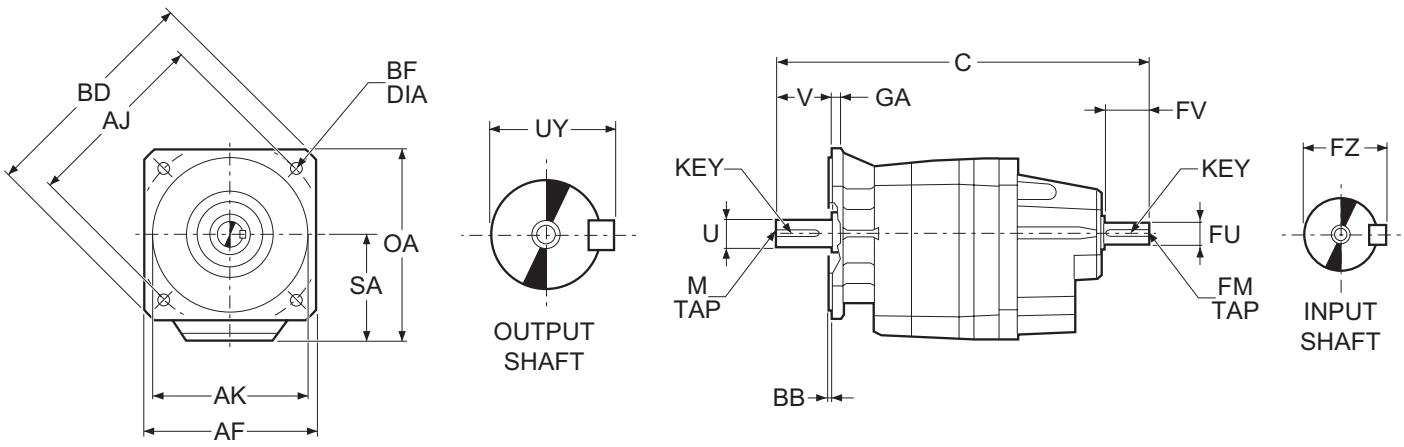
		U		UY	V	Key	M
C 31 2, C 31 3	**NP**	1.125	$^{+0}_{-0.0005}$	1.230	2.375	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC

Input shaft (Inch series)

		FU		FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 31 2	**NHS**	0.750	$^{+0}_{-0.0005}$	0.830	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	24 / *11.1*
C 31 3	**NHS**	0.625	$^{+0}_{-0.0004}$	0.710	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	23 / *10.6*

Dimensions are $\frac{\text{inch}}{mm}$

Flange mounted, solid input shaft C 31 2 C 31 3



Gearcase

	C	SA	OA
C 31 2	14.09	4.252	7.205
	357.8	*108*	*183*
C 31 3	14.65	4.252	7.205
	372.1	*108*	*183*

Flange

AF	AJ	AK		BB	BD	BF	GA
5.906	6.496	5.118	-0.0017 -0.0033	0.138	7.874	0.453	0.472
150	*165*	*130*	*-0.043* *-0.063*	*3.5*	*200*	*11.5*	*12*
5.906	6.496	5.118	-0.0017 -0.0033	0.138	7.874	0.453	0.472
150	*165*	*130*	*-0.043* *-0.063*	*3.5*	*200*	*11.5*	*12*

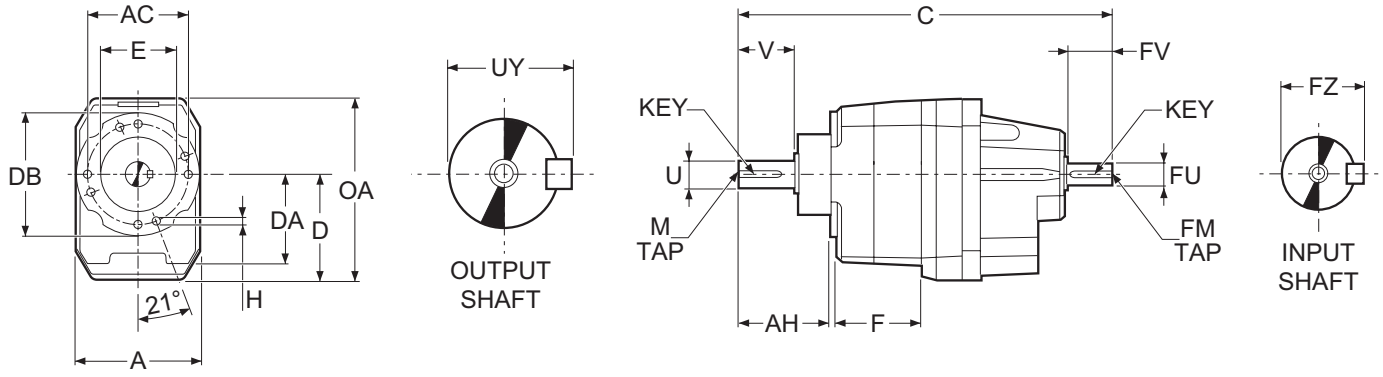
Output shaft (Inch series)

		U	UY	V	Key	M
C 31 2, C 31 3	**NF**	1.125 $^{+0}_{-0.0005}$	1.230	2.375	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 31 2	**NHS**	0.750 $^{+0}_{-0.0005}$	0.830	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	26 / *11.8*
C 31 3	**NHS**	0.625 $^{+0}_{-0.0004}$	0.710	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	23 / *10.3*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AH	C	D	DA	DB	E	F	H	OA
C 31 2	5.118 *130*	3.937 *100*	3.780 *96*	14.09 *357.8*	4.252 *108*	3.484 *88.5*	4.724 *120*	3.150 *80*	3.425 *87*	*M8x15 [mm]*	7.047 *179*
C 31 3	5.118 *130*	3.937 *100*	3.780 *96*	14.65 *372.1*	4.252 *108*	3.484 *88.5*	4.724 *120*	3.150 *80*	3.425 *87*	*M8x15 [mm]*	7.047 *179*

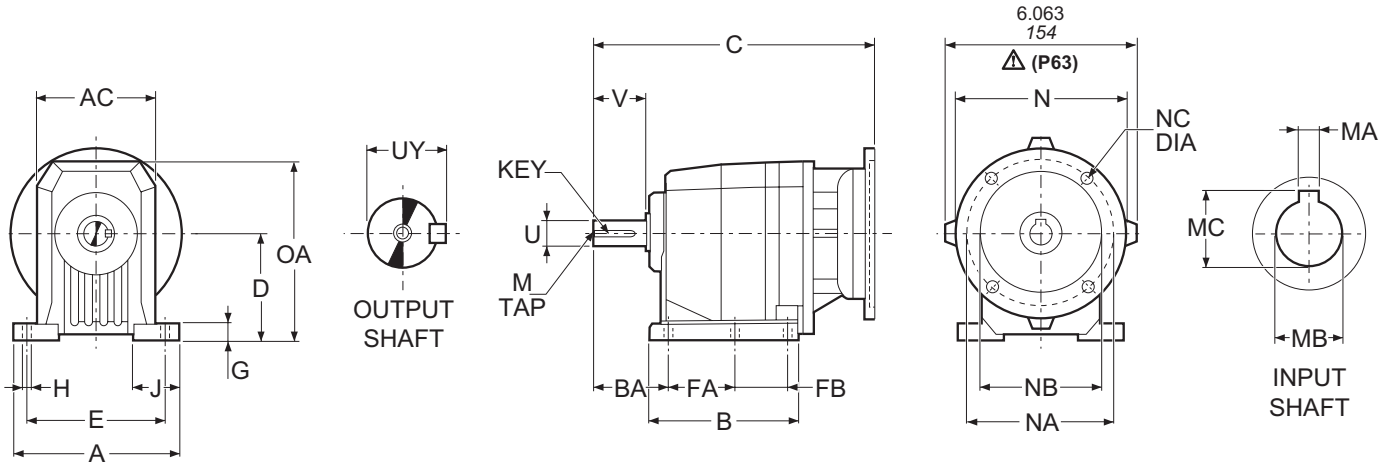
Output shaft (Inch series)

		U	UY	V	Key	M
C 31 2, C 31 3	**NU**	1.125 $^{+0}_{-0.0005}$	1.230	2.375	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 31 2	**NHS**	0.750 $^{+0}_{-0.0005}$	0.830	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	23 / *10.5*
C 31 3	**NHS**	0.625 $^{+0}_{-0.0004}$	0.710	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	22 / *10.0*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	D	E	FA	FB	G	H	J	OA
C 31 2, C 31 3	7.480	5.118	6.142	3.071	4.331	6.299	2.756	2.362	0.787	0.433	2.087	7.126
	190	*130*	*156*	*78*	*110*	*160*	*70*	*60*	*20*	*11*	*53*	*181*

Output shaft (Inch series)

Model		U	UY	V	Key	M
C 31 2, C 31 3	**NP**	1.125 $^{+0}_{-0.0005}$	1.230	2.375	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC

IEC Flange

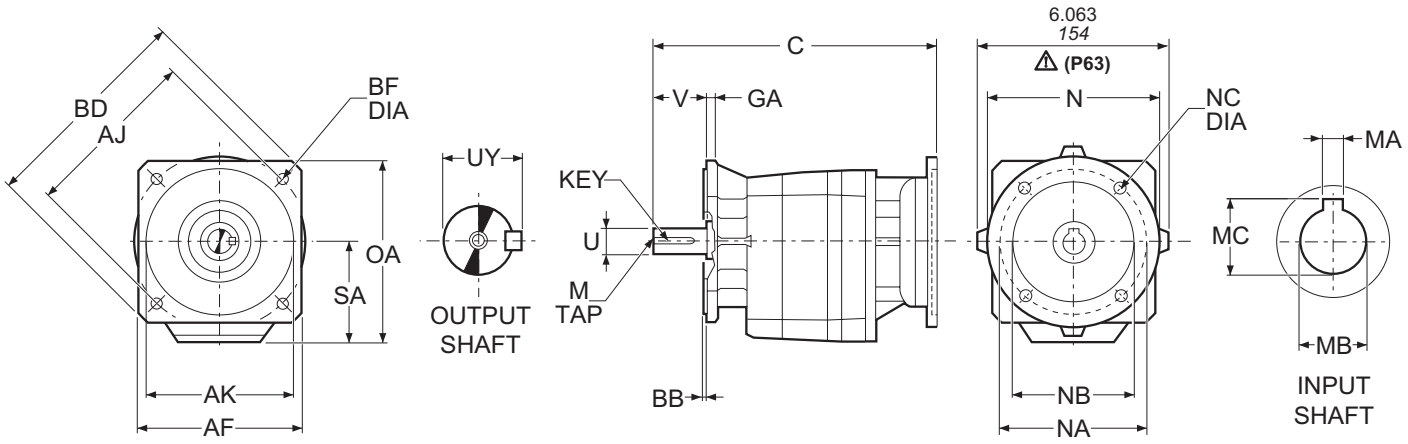
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	22 / *10*
P71	*160*	*130*	*110*	*M8x16*	22 / *10*
P80, P90	*200*	*165*	*130*	*M10x12*	24 / *11*
P100, P112	*250*	*215*	*180*	*M12x16*	33 / *15*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*

	C		
	P63 P71	**P80 P90**	**P100 P112**
C 31 2	12.11	12.88	13.27
	307.5	*327*	*337*
C 31 3	14.37	15.14	15.53
	365	*384.5*	*394.5*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	SA	OA
C 31 2, C 31 3	4.252	7.205
	108	*183*

Flange

AF	AJ	AK	BB	BD	BF	GA
5.906	6.496	5.118 $^{-0.0017}_{-0.0033}$	0.138	7.874	0.453	0.472
150	*165*	*130* $^{-0.043}_{-0.063}$	*3.5*	*200*	*11.5*	*12*

Output shaft (Inch series)

		U	UY	V	Key	M
C 31 2, C 31 3	**NF**	1.125 $^{+0}_{-0.0005}$	1.230	2.375	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC

IEC Flange

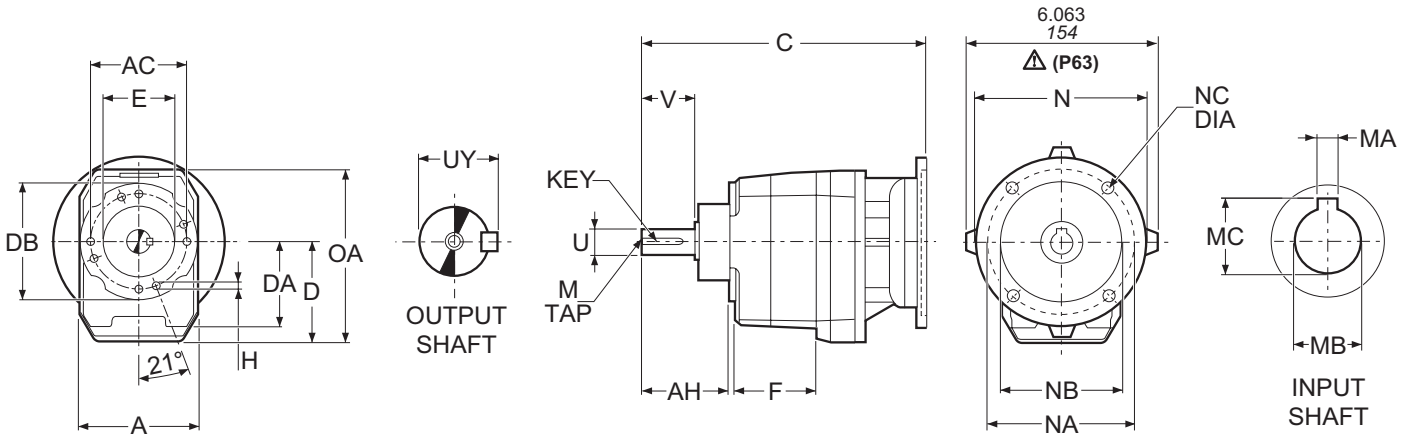
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	22 / *10*
P71	*160*	*130*	*110*	*M8x16*	22 / *10*
P80, P90	*200*	*165*	*130*	*M10x12*	24 / *11*
P100, P112	*250*	*215*	*180*	*M12x16*	33 / *15*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*

	C		
	P63 P71	**P80 P90**	**P100 P112**
C 31 2	12.11	12.88	13.27
	307.5	*327*	*337*
C 31 3	14.37	15.14	15.53
	365	*384.5*	*394.5*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AH	D	DA	DB	E	F	H	OA
C 31 2, C 31 3	5.118 *130*	3.937 *100*	3.780 *96*	4.252 *108*	3.484 *88.5*	4.724 *120*	3.150 *80*	3.425 *87*	*M8x15 [mm]*	7.047 *179*

Output shaft (Inch series)

		U	UY	V	Key	M
C 31 2, C 31 3	**NU**	1.125 $^{+0}_{-0.0005}$	1.230	2.375	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC

IEC Flange

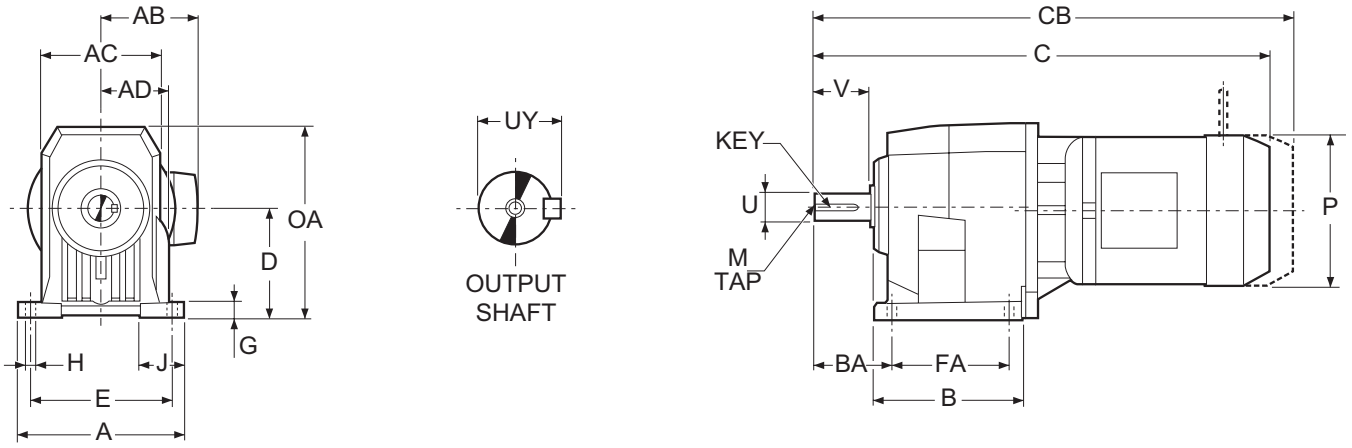
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	*22 / 10*
P71	*160*	*130*	*110*	*M8x16*	*22 / 10*
P80, P90	*200*	*165*	*130*	*M10x12*	*24 / 11*
P100, P112	*250*	*215*	*180*	*M12x16*	33 / *15*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*

	C		
	P63 P71	**P80 P90**	**P100 P112**
C 31 2	12.11 *307.5*	12.88 *327*	13.27 *337*
C 31 3	14.37 *365*	15.14 *384.5*	15.53 *394.5*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	D	E	FA	G	H	J	OA
C 35 2, C 35 3, C 35 4	8.071	5.906	3.386	6.614	3.681	4.528	6.693	5.118	0.630	0.551	1.969	8.110
	205	*150*	*86*	*168*	*93.5*	*115*	*170*	*130*	*16*	*14*	*50*	*206*

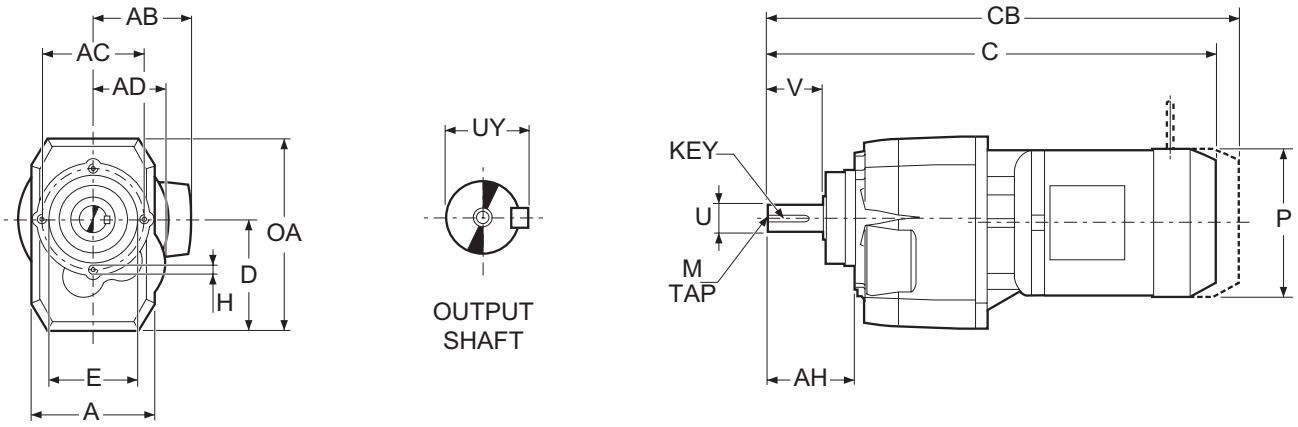
Output shaft (Inch series)

		U		UY	V	Key	M
C 35 2, C 35 3, C 35 4	**NP**	1.375	$^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 35 2_S1 M1	4.252	18.90	21.30	5.433	46 / *21*
C 35 3_S1 M1	*108*	*480*	*541*	*138*	
C 35 2_S2 M2S	4.685	20.04	22.80	6.142	59 / *27*
C 35 3_S2 M2S	*119*	*509*	*579*	*156*	
C 35 2_S3 M3S	5.591	21.73	25.51	7.677	73 / *33*
C 35 3_S3 M3S	*142*	*552*	*648*	*195*	
C 35 2_S3 M3L	5.591	22.99	26.58	7.677	92 / *42*
C 35 3_S3 M3L	*142*	*584*	*675*	*195*	
C 35 4_S05 M05	3.740	20.02	22.62	4.764	44 / *20*
	95	*508.5*	*574.5*	*121*	
C 35 4_S1 M1	4.252	21.16	23.56	5.433	48 / *22*
	108	*537.5*	*598.5*	*138*	
C 35 4_S2 M2S	4.685	22.30	25.06	6.142	62 / *28*
	119	*566.5*	*636.5*	*156*	
C 35 4_S3 M3S	5.591	24.00	27.78	7.677	75 / *34*
	142	*609.5*	*705.5*	*195*	
C 35 4_S3 M3L	5.591	25.26	28.84	7.677	95 / *43*
	142	*641.5*	*732.5*	*195*	

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	AH	D	E	H	OA
C 35 2, C 35 3, C 35 4	5.906 *150*	4.528 *115*	3.386 *86*	3.465 *88*	3.740 *95*	4.528 *115*	*M10x15 [mm]*	7.953 *202*

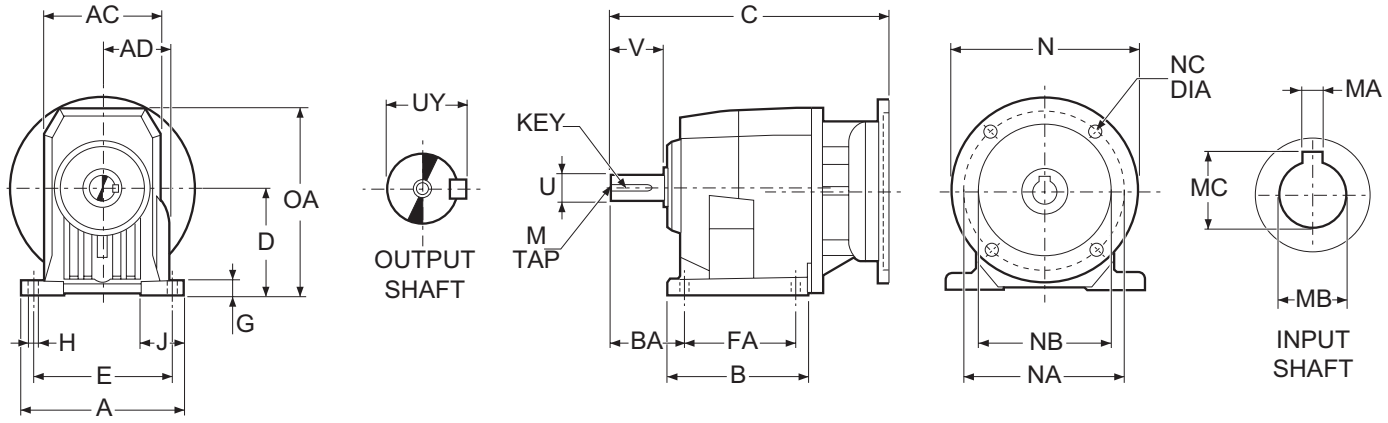
Output shaft (Inch series)

		U		UY	V	Key	M
C 35 2, C 35 3, C 35 4	**NU**	1.375	+0 -0.0006	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 35 2_S1 M1 **C 35 3_S1 M1**	4.252 *108*	18.90 *480*	21.30 *541*	5.433 *138*	46 / *21*
C 35 2_S2 M2S **C 35 3_S2 M2S**	4.685 *119*	20.04 *509*	22.80 *579*	6.142 *156*	59 / *27*
C 35 2_S3 M3S **C 35 3_S3 M3S**	5.591 *142*	21.73 *552*	25.51 *648*	7.677 *195*	73 / *33*
C 35 2_S3 M3L **C 35 3_S3 M3L**	5.591 *142*	22.99 *584*	26.58 *675*	7.677 *195*	92 / *42*
C 35 4_S05 M05	3.740 *95*	20.02 *508.5*	22.62 *574.5*	4.764 *121*	44 / *20*
C 35 4_S1 M1	4.252 *108*	21.16 *537.5*	23.56 *598.5*	5.433 *138*	48 / *22*
C 35 4_S2 M2S	4.685 *119*	22.30 *566.5*	25.06 *636.5*	6.142 *156*	62 / *28*
C 35 4_S3 M3S	5.591 *142*	24.00 *609.5*	27.78 *705.5*	7.677 *195*	75 / *34*
C 35 4_S3 M3L	5.591 *142*	25.26 *641.5*	28.84 *732.5*	7.677 *195*	95 / *43*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	D	E	FA	G	H	J	OA
C 35 2, C 35 3, C 35 4	8.071	5.906	3.386	6.614	3.681	4.528	6.693	5.118	0.630	0.551	1.969	8.110
	205	*150*	*86*	*168*	*93.5*	*115*	*170*	*130*	*16*	*14*	*50*	*206*

Output shaft (Inch series)

		U	UY	V	Key	M
C 35 2, C 35 3, C 35 4	**NP**	1.375 $^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

NEMA Flange

	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	44 / *20*
N140TC	6.496	5.875	4.500	0.394	46 / *21*
N180TC	8.996	7.250	8.500	0.551	55 / *25*

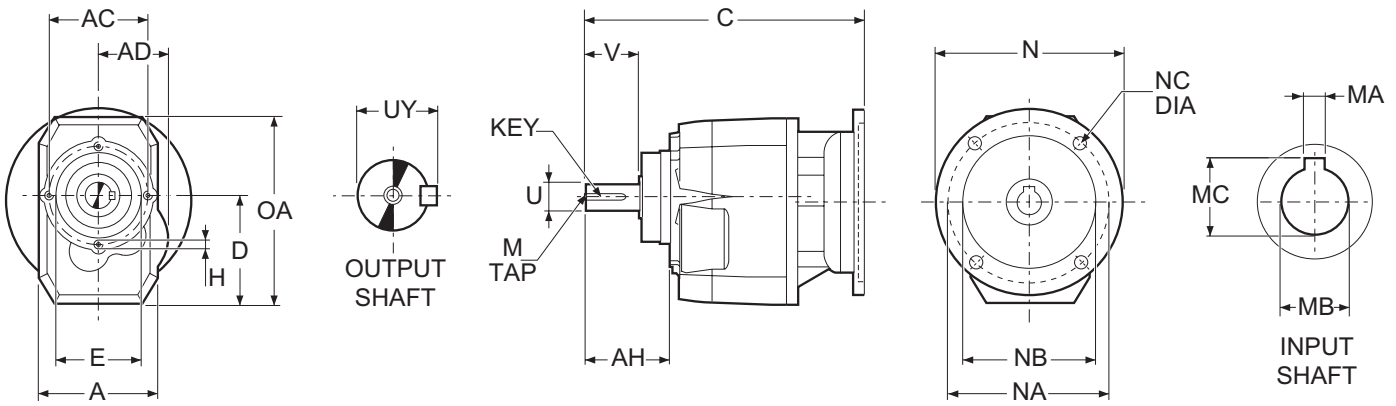
Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241

	C		
	N56C	**N140TC**	**N180TC**
C 35 2	13.62	13.62	14.15
	346	*346*	*359.5*
C 35 3	13.62	13.62	14.15
	346	*346*	*359.5*
C 35 4	15.89	15.89	16.42
	403.5	*403.5*	*417*

Dimensions are $\frac{\text{inch}}{mm}$

Universal housing, NEMA input C 35 2 C 35 3 C 35 4



Gearcase

	A	AC	AD	AH	D	E	H	OA
C 35 2, C 35 3, C 35 4	5.906 *150*	4.528 *115*	3.386 *86*	3.465 *88*	4.370 *111*	3.740 *95*	*M10x15 [mm]*	7.953 *202*

Output shaft (Inch series)

		U		UY	V	Key	M
C 35 2, C 35 3, C 35 4	**NU**	1.375	$^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

NEMA Flange

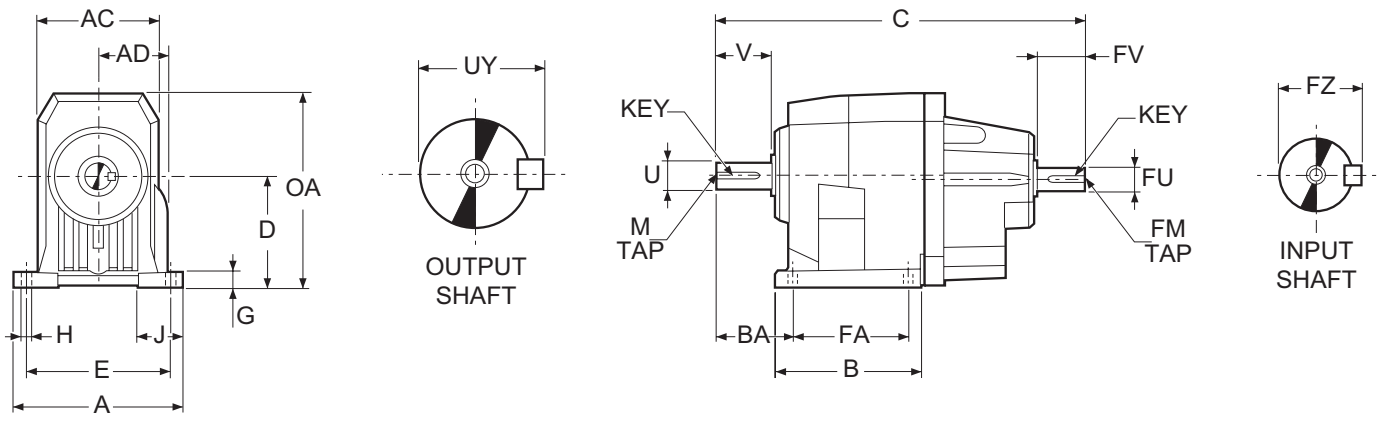
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	44 / *20*
N140TC	6.496	5.875	4.500	0.394	46 / *21*
N180TC	8.996	7.250	8.500	0.551	55 / *25*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241

	C		
	N56C	**N140TC**	**N180TC**
C 35 2	13.62 *346*	13.62 *346*	14.15 *359.5*
C 35 3	13.62 *346*	13.62 *346*	14.15 *359.5*
C 35 4	15.89 *403.5*	15.89 *403.5*	16.42 *417*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	C	D	E	FA	G	H	J	OA
C 35 2, C 35 3	8.071	5.906	3.386	6.614	3.583	16.32	4.528	6.693	5.118	0.630	0.551	1.969	8.110
	205	*150*	*86*	*168*	*91*	*414.5*	*115*	*170*	*130*	*16*	*14*	*50*	*206*
C 35 4	8.071	5.906	3.386	6.614	3.583	15.32	4.528	6.693	5.118	0.630	0.551	1.969	8.110
	205	*150*	*86*	*168*	*91*	*389.2*	*115*	*170*	*130*	*16*	*14*	*50*	*206*

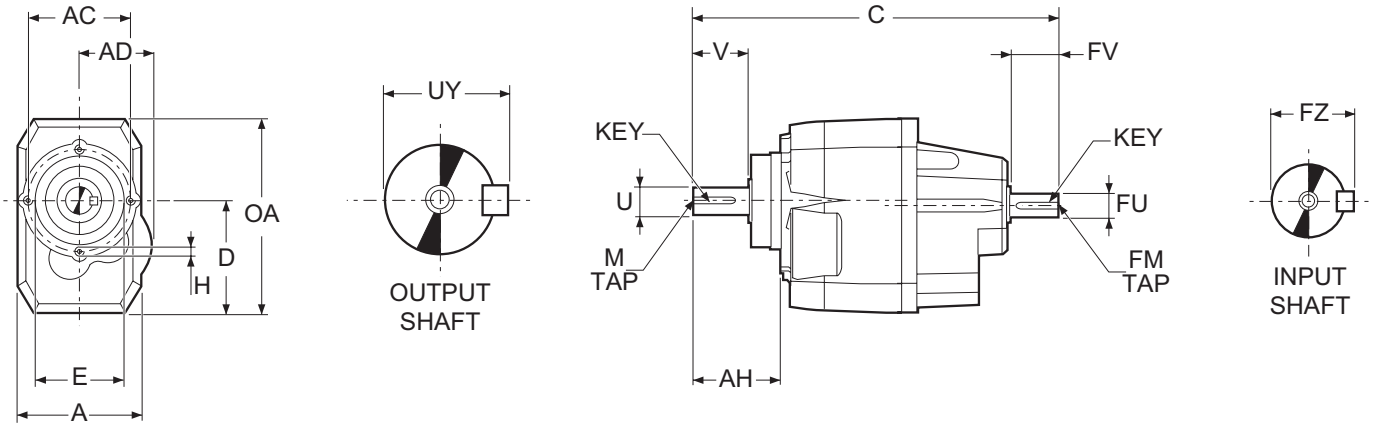
Output shaft (Inch series)

		U		UY	V	Key	M
C 35 2, C 35 3, C 35 4	**NP**	1.375	$^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

Input shaft (Inch series)

		FU		FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 35 2, C 35 3	**NHS**	1.000	$^{+0}_{-0.0005}$	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	56 / *26*
C 35 4	**NHS**	0.625	$^{+0}_{-0.0004}$	0.710	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	58 / *27*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	AH	C	D	E	H	OA
C 35 2, C 35 3	4.134 *105*	4.528 *115*	3.386 *86*	3.465 *88*	16.32 *414.5*	4.370 *111*	3.740 *95*	*M10x15 [mm]*	7.953 *202*
C 35 4	4.134 *105*	4.528 *115*	3.386 *86*	3.465 *88*	15.32 *389.2*	4.370 *111*	3.740 *95*	*M10x15 [mm]*	7.953 *202*

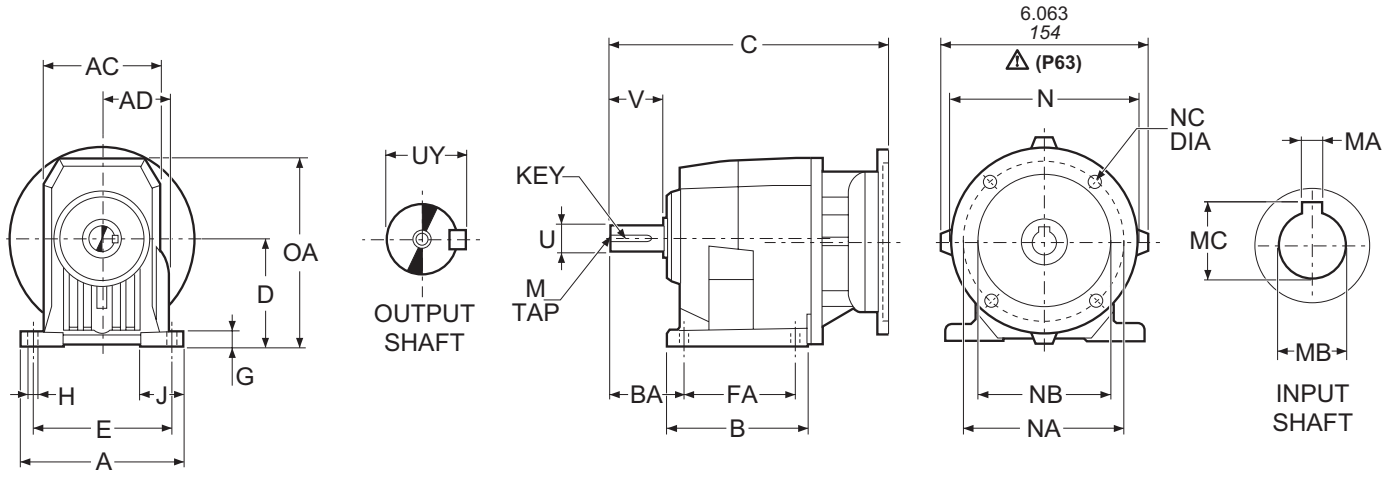
Output shaft (Inch series)

		U		UY	V	Key	M
C 35 2, C 35 3, C 35 4	**NU**	1.375	$^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

Input shaft (Inch series)

		FU		FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 35 2, C 35 3	**NHS**	1.000	$^{+0}_{-0.0005}$	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	56 / *26*
C 35 4	**NHS**	0.625	$^{+0}_{-0.0004}$	0.710	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	58 / *27*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	D	E	FA	G	H	J	OA
C 35 2, C 35 3, C 35 4	8.071	5.906	3.386	6.614	3.681	4.528	6.693	5.118	0.630	0.551	1.969	8.110
	205	*150*	*86*	*168*	*93.5*	*115*	*170*	*130*	*16*	*14*	*50*	*206*

Output shaft (Inch series)

		U	UY	V	Key	M
C 35 2, C 35 3, C 35 4	**NP**	1.375 $^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

IEC Flange

	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	*44 / 20*
P71	*160*	*130*	*110*	*M8x16*	*44 / 20*
P80, P90	*200*	*165*	*130*	*M10x12*	46 / *21*
P100, P112	*250*	*215*	*180*	*M12x16*	55 / *25*

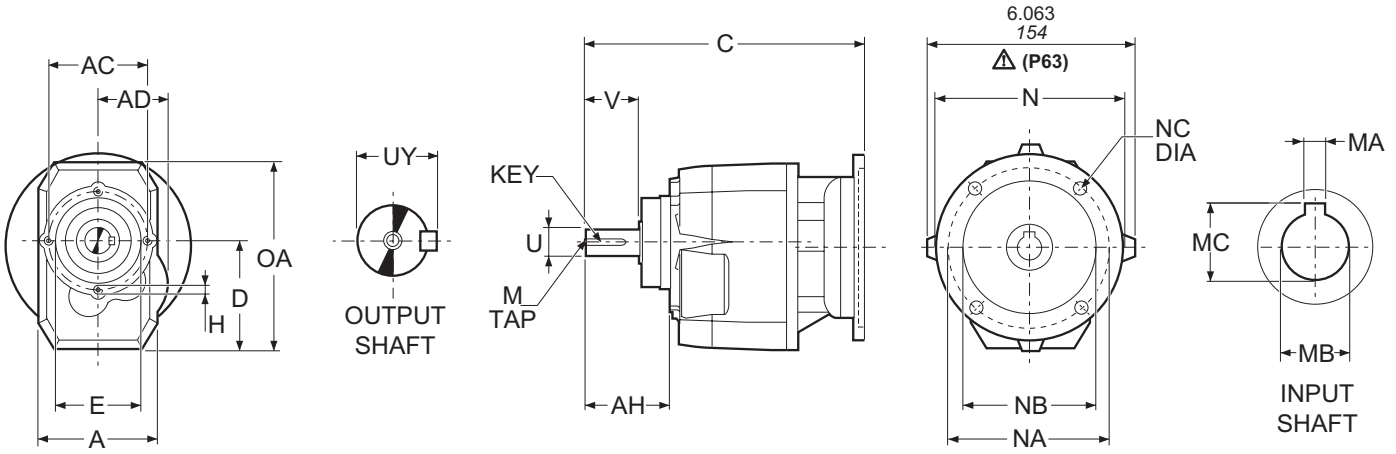
Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*

	C		
	P63 P71	**P80 P90**	**P100 P112**
C 35 2	12.84	13.60	14.00
	326	*345.5*	*355.5*
C 35 3	15.10	15.87	16.26
	383.5	*403*	*413*

Dimensions are $\frac{\text{inch}}{mm}$

Universal housing, IEC input C 35 2 C 35 3 C 35 4



Gearcase

	A	AC	AD	AH	D	E	H	OA
C 35 2, C 35 3, C 35 4	5.906 *150*	4.528 *115*	3.386 *86*	3.465 *88*	4.370 *111*	3.740 *95*	*M10x15 [mm]*	7.953 *202*

Output shaft (Inch series)

		U	UY	V	Key	M
C 35 2, C 35 3, C 35 4	**NU**	1.375 $^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

IEC Flange

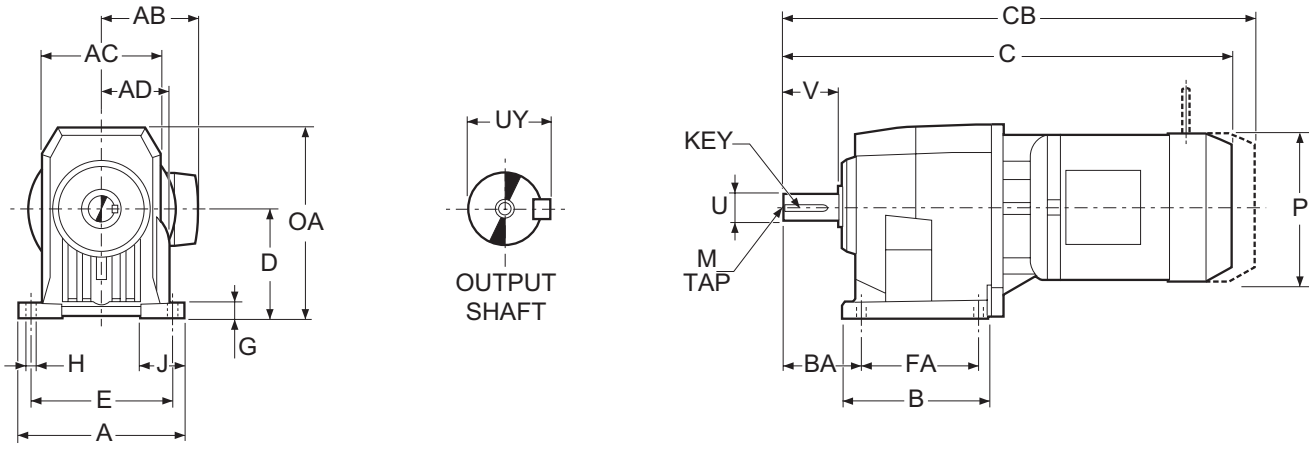
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	44 / *20*
P71	*160*	*130*	*110*	*M8x16*	44 / *20*
P80, P90	*200*	*165*	*130*	*M10x12*	46 / *21*
P100, P112	*250*	*215*	*180*	*M12x16*	55 / *25*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*

	C		
	P63 P71	**P80 P90**	**P100 P112**
C 35 2	12.84 *326*	13.60 *345.5*	14.00 *355.5*
C 35 3	15.10 *383.5*	15.87 *403*	16.26 *413*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	D	E	FA	G	H	J	OA
C 41 2, C 41 3, C 41 4	8.504	6.102	3.543	7.303	3.524	5.118	7.087	5.886	0.709	0.551	2.402	8.701
	216	*155*	*90*	*185.5*	*89.5*	*130*	*180*	*149.5*	*18*	*14*	*61*	*221*

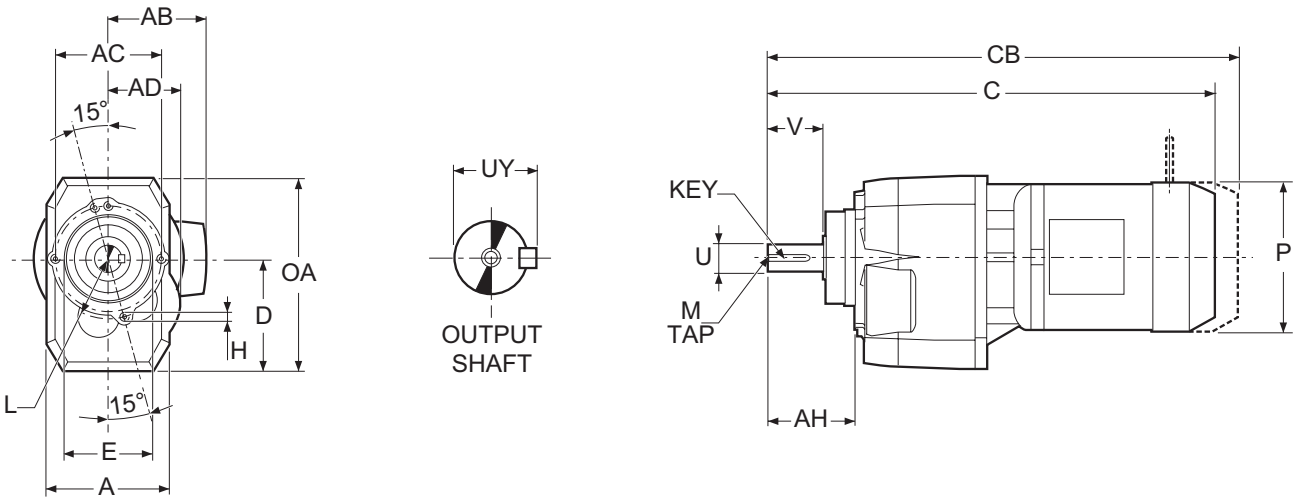
Output shaft (Inch series)

		U		UY	V	Key	M
C 41 2, C 41 3, C 41 4	**NP**	1.375	$^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 41 2_S1 M1	4.252	19.35	21.75	5.433	62 / *28*
C 41 3_S1 M1	*108*	*491.5*	*552.5*	*138*	
C 41 2_S2 M2S	4.685	20.49	23.25	6.142	75 / *34*
C 41 3_S2 M2S	*119*	*520.5*	*590.5*	*156*	
C 41 2_S3 M3S	5.591	22.19	25.97	7.677	90 / *41*
C 41 3_S3 M3S	*142*	*563.5*	*659.5*	*195*	
C 41 2_S3 M3L	5.591	23.45	27.03	7.677	110 / *50*
C 41 3_S3 M3L	*142*	*595.5*	*686.5*	*195*	
C 41 2_S4 M4S	7.598	27.70	31.99	10.157	158 / *72*
C 41 3_S4 M4S	*193*	*703.5*	*812.5*	*258*	
C 41 2_S4 M4L	7.598	27.70	31.99	10.157	183 / *83*
C 41 3_S4 M4L	*193*	*703.5*	*812.5*	*258*	
C 41 4_S05 M05	3.740	20.63	23.23	9.094	62 / *28*
	95	*524*	*590*	*231*	
C 41 4_S1 M1	4.252	21.77	24.17	5.433	68 / *31*
	108	*553*	*614*	*138*	
C 41 4_S2 M2S	4.685	22.91	25.67	6.142	82 / *37*
	119	*582*	*652*	*156*	
C 41 4_S3 M3S	5.591	24.61	28.39	7.677	97 / *44*
	142	*625*	*721*	*195*	
C 41 4_S3 M3L	5.591	25.87	29.45	7.677	117 / *53*
	142	*657*	*748*	*195*	

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	AH	D	E	H	L	OA
C 41 2, C 41 3, C 41 4	6.102 *155*	5.118 *130*	3.543 *90*	4.331 *110*	5.039 *128*	4.331 *110*	*M10x15 [mm]*	*2.953* *75*	8.701 *221*

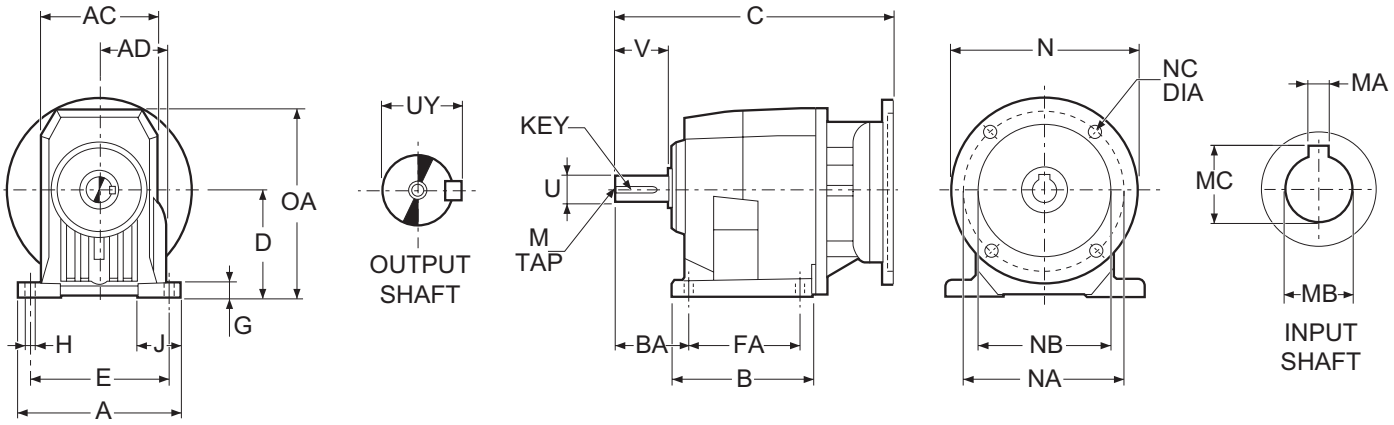
Output shaft (Inch series)

		U	UY	V	Key	M
C 41 2, C 41 3, C 41 4	**NU**	1.375 $^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 41 2_S1 M1 **C 41 3_S1 M1**	4.252 *108*	19.35 *491.5*	21.75 *552.5*	5.433 *138*	62 / *28*
C 41 2_S2 M2S **C 41 3_S2 M2S**	4.685 *119*	20.49 *520.5*	23.25 *590.5*	6.142 *156*	75 / *34*
C 41 2_S3 M3S **C 41 3_S3 M3S**	5.591 *142*	22.19 *563.5*	25.97 *659.5*	7.677 *195*	90 / *41*
C 41 2_S3 M3L **C 41 3_S3 M3L**	5.591 *142*	23.45 *595.5*	27.03 *686.5*	7.677 *195*	110 / *50*
C 41 2_S4 M4S **C 41 3_S4 M4S**	7.598 *193*	27.70 *703.5*	31.99 *812.5*	10.157 *258*	158 / *72*
C 41 2_S4 M4L **C 41 3_S4 M4L**	7.598 *193*	27.70 *703.5*	31.99 *812.5*	10.157 *258*	183 / *83*
C 41 4_S05 M05	3.740 *95*	20.63 *524*	23.23 *590*	9.094 *231*	62 / *28*
C 41 4_S1 M1	4.252 *108*	21.77 *553*	24.17 *614*	5.433 *138*	68 / *31*
C 41 4_S2 M2S	4.685 *119*	22.91 *582*	25.67 *652*	6.142 *156*	82 / *37*
C 41 4_S3 M3S	5.591 *142*	24.61 *625*	28.39 *721*	7.677 *195*	97 / *44*
C 41 4_S3 M3L	5.591 *142*	25.87 *657*	29.45 *748*	7.677 *195*	117 / *53*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	D	E	FA	G	H	J	OA
C 41 2, C 41 3, C 41 4	8.504	6.102	3.543	7.303	3.524	5.118	7.087	5.886	0.709	0.551	2.402	8.701
	216	*155*	*90*	*185.5*	*89.5*	*130*	*180*	*149.5*	*18*	*14*	*61*	*221*

Output shaft (Inch series)

		U	UY	V	Key	M
C 41 2, C 41 3, C 41 4	**NP**	1.375 $^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

NEMA Flange

	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	68 / *31*
N140TC	6.496	5.875	4.500	0.394	71 / *32*
N180TC	8.996	7.250	8.500	0.551	79 / *36*
N210TC	8.996	7.250	8.500	0.551	77 / *35*

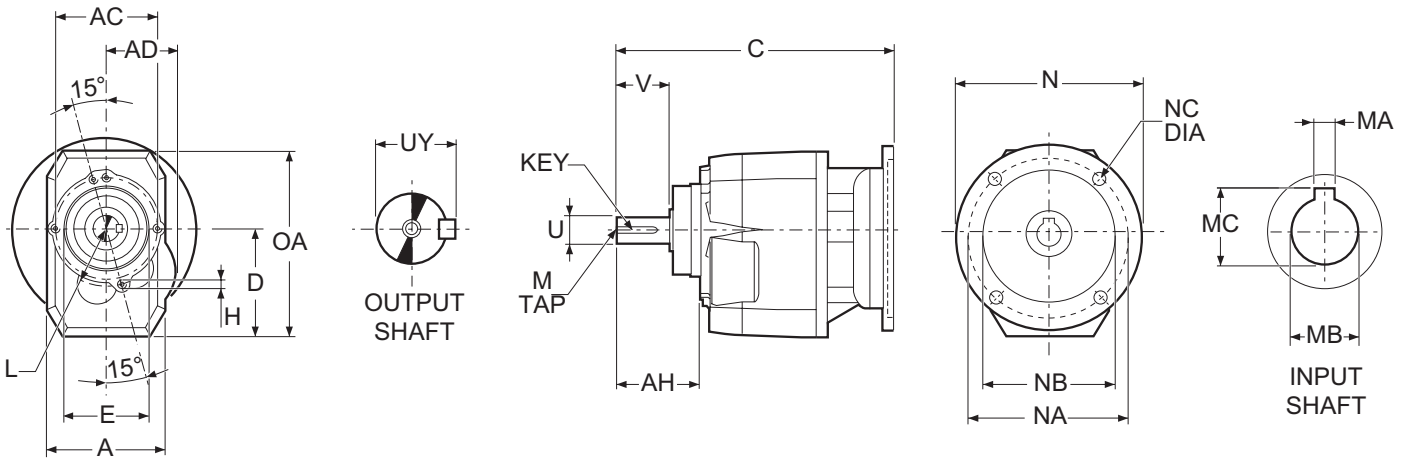
Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518

	C			
	N56C	**N140TC**	**N180TC**	**N210TC**
C 41 2	14.04	14.04	14.57	16.02
	356.5	*356.5*	*370*	*407*
C 41 3	14.04	14.04	14.57	16.02
	356.5	*356.5*	*370*	*407*
C 41 4	16.46	16.46	16.99	—
	418	*418*	*431.5*	

Dimensions are $\frac{\text{inch}}{mm}$

Universal housing, NEMA input C 41 2 C 41 3 C 41 4



Gearcase

	A	AC	AD	AH	D	E	H	L	OA
C 41 2, C 41 3, C 41 4	6.102 *155*	5.118 *130*	3.543 *90*	4.331 *110*	5.039 *128*	4.331 *110*	*M10x15 [mm]*	2.953 *75*	8.701 *221*

Output shaft (Inch series)

		U	UY	V	Key	M
C 41 2, C 41 3, C 41 4	**NU**	1.375 $^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

NEMA Flange

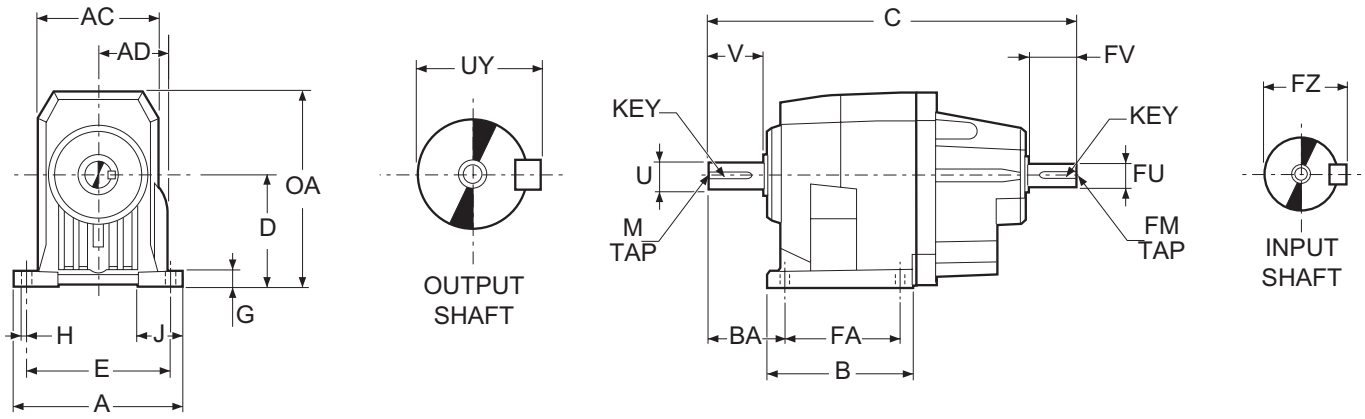
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	68 / *31*
N140TC	6.496	5.875	4.500	0.394	71 / *32*
N180TC	8.996	7.250	8.500	0.551	79 / *36*
N210TC	8.996	7.250	8.500	0.551	77 / *35*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518

	C			
	N56C	**N140TC**	**N180TC**	**N210TC**
C 41 2	14.04 *356.5*	14.04 *356.5*	14.57 *370*	16.02 *407*
C 41 3	14.04 *356.5*	14.04 *356.5*	14.57 *370*	16.02 *407*
C 41 4	16.46 *418*	16.46 *418*	16.99 *431.5*	—

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	C	D	E	FA	G	H	J	OA
C 41 2, C 41 3	8.504	6.102	3.543	7.303	3.524	16.71	5.118	7.087	5.886	0.709	0.551	2.402	8.701
	216	*155*	*90*	*185.5*	*89.5*	*424.5*	*130*	*180*	*149.5*	*18*	*14*	*61*	*221*
C 41 4	8.504	6.102	3.543	7.303	3.524	17.56	5.118	7.087	5.886	0.709	0.551	2.402	8.701
	216	*155*	*90*	*185.5*	*89.5*	*446.85*	*130*	*180*	*149.5*	*18*	*14*	*61*	*221*

Output shaft (Inch series)

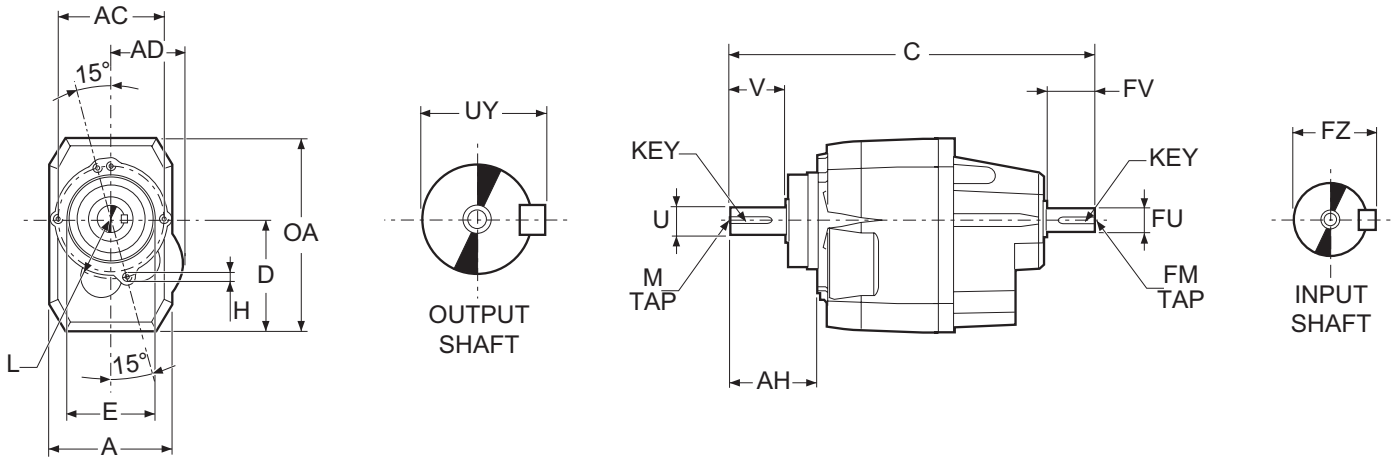
		U	UY	V	Key	M
C 41 2, C 41 3, C 41 4	**NP**	1.375 $^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 41 2, C 41 3	**NHS**	1.000 $^{+0}_{-0.0005}$	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	66 / *30*
C 41 4	**NHS**	0.750 $^{+0}_{-0.0005}$	0.830	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	73 / *33*

Dimensions are $\frac{\text{inch}}{mm}$

Universal housing, solid input shaft C 41 2 C 41 3 C 41 4



Gearcase

	A	AC	AD	AH	C	D	E	H	L	OA
C 41 2, C 41 3	6.102 *155*	5.118 *130*	3.543 *90*	4.331 *110*	16.71 *424.5*	5.039 *128*	4.331 *110*	*M10x15 [mm]*	2.953 *75*	8.701 *221*
C 41 4	6.102 *155*	5.118 *130*	3.543 *90*	4.331 *110*	17.56 *446.85*	5.039 *128*	4.331 *110*	*M10x15 [mm]*	2.953 *75*	8.701 *221*

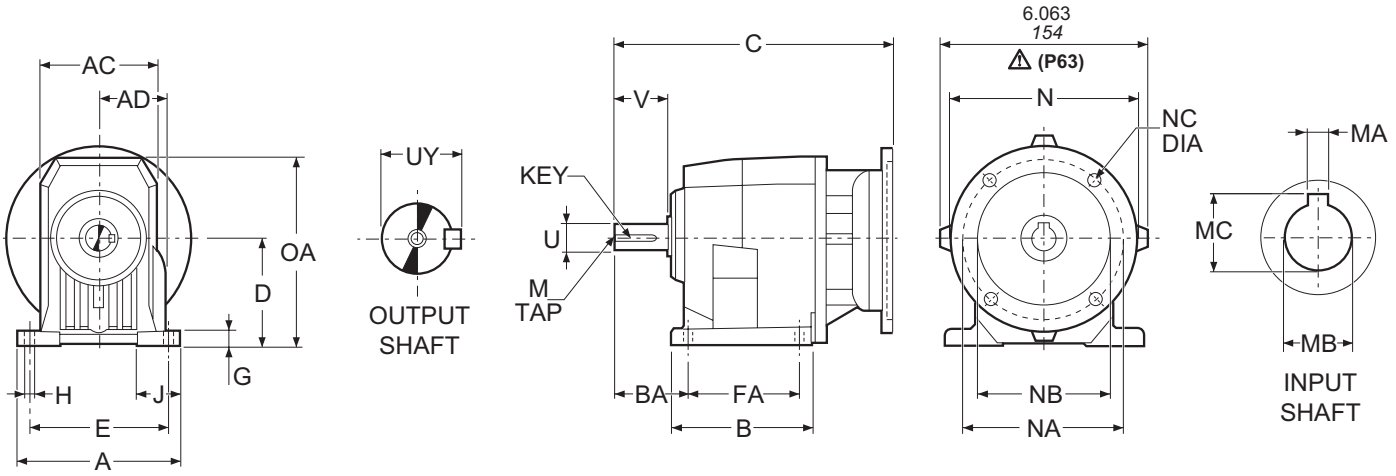
Output shaft (Inch series)

		U	UY	V	Key	M
C 41 2, C 41 3, C 41 4	**NU**	1.375 $^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 41 2, C 41 3	**NHS**	1.000 $^{+0}_{-0.0005}$	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	66 / *30*
C 41 4	**NHS**	0.750 $^{+0}_{-0.0005}$	0.830	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	73 / *33*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	D	E	FA	G	H	J	OA
C 41 2, C 41 3, C 41 4	8.504	6.102	3.543	7.303	3.524	5.118	7.087	5.886	0.709	0.551	2.402	8.701
	216	*155*	*90*	*185.5*	*89.5*	*130*	*180*	*149.5*	*18*	*14*	*61*	*221*

Output shaft (Inch series)

		U	UY	V	Key	M
C 41 2, C 41 3, C 41 4	**NP**	1.375 $^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

IEC Flange

	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	66 / *30*
P71	*160*	*130*	*110*	*M8x16*	68 / *31*
P80, P90	*200*	*165*	*130*	*M10x12*	70 / *32*
P100, P112	*250*	*215*	*180*	*M12x16*	79 / *36*
P132	*300*	*265*	*230*	*14*	77 / *35*

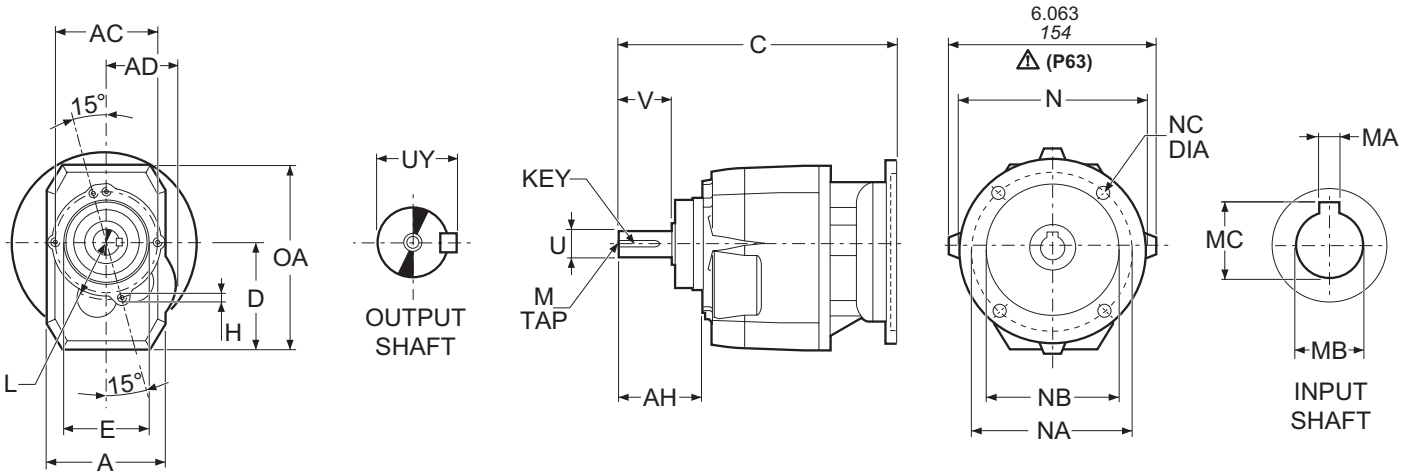
Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*
P132	*10*	*38*	*41.3*

	C			
	P63 P71	**P80 P90**	**P100 P112**	**P132**
C 41 2, C 41 3	13.25	14.02	14.41	15.85
	336.5	*356*	*366*	*402.5*
C 41 4	15.55	16.32	16.71	—
	395	*414.5*	*424.5*	

Dimensions are $\frac{\text{inch}}{mm}$

Universal housing, IEC input C 41 2 C 41 3 C 41 4



Gearcase

	A	AC	AD	AH	D	E	H	L	OA
C 41 2, C 41 3, C 41 4	6.102 *155*	5.118 *130*	3.543 *90*	4.331 *110*	5.039 *128*	4.331 *110*	*M10x15 [mm]*	2.953 *75*	8.701 *221*

Output shaft (Inch series)

		U	UY	V	Key	M
C 41 2, C 41 3, C 41 4	**NU**	1.375 $^{+0}_{-0.0006}$	1.510	2.710	5/16 x 5/16 x 2 3/8	1/2 - 13 UNC

IEC Flange

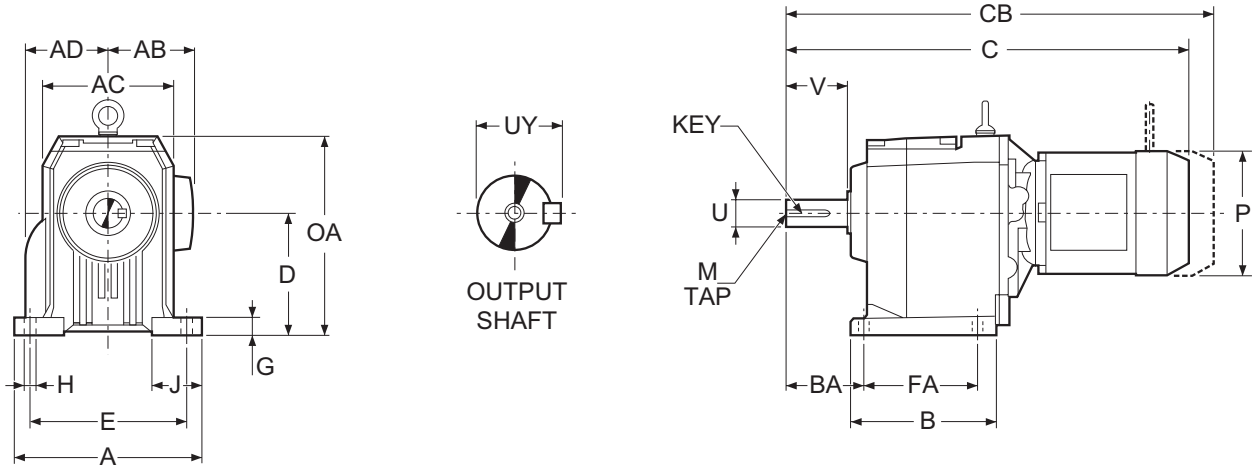
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	66 / *30*
P71	*160*	*130*	*110*	*M8x16*	68 / *31*
P80, P90	*200*	*165*	*130*	*M10x12*	70 / *32*
P100, P112	*250*	*215*	*180*	*M12x16*	79 / *36*
P132	*300*	*265*	*230*	*14*	77 / *35*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*
P132	*10*	*38*	*41.3*

	C			
	P63 P71	**P80 P90**	**P100 P112**	**P132**
C 41 2, C 41 3	13.25 *336.5*	14.02 *356*	14.41 *366*	15.85 *402.5*
C 41 4	15.55 *395*	16.32 *414.5*	16.71 *424.5*	—

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	D	E	FA	G	H	J	OA
C 51 2, C 51 3, C 51 4	10.630	7.283	4.724	7.874	4.134	6.102	8.858	6.142	0.866	0.709	2.953	10.945
	270	*185*	*120*	*200*	*105*	*155*	*225*	*156*	*22*	*18*	*75*	*278*

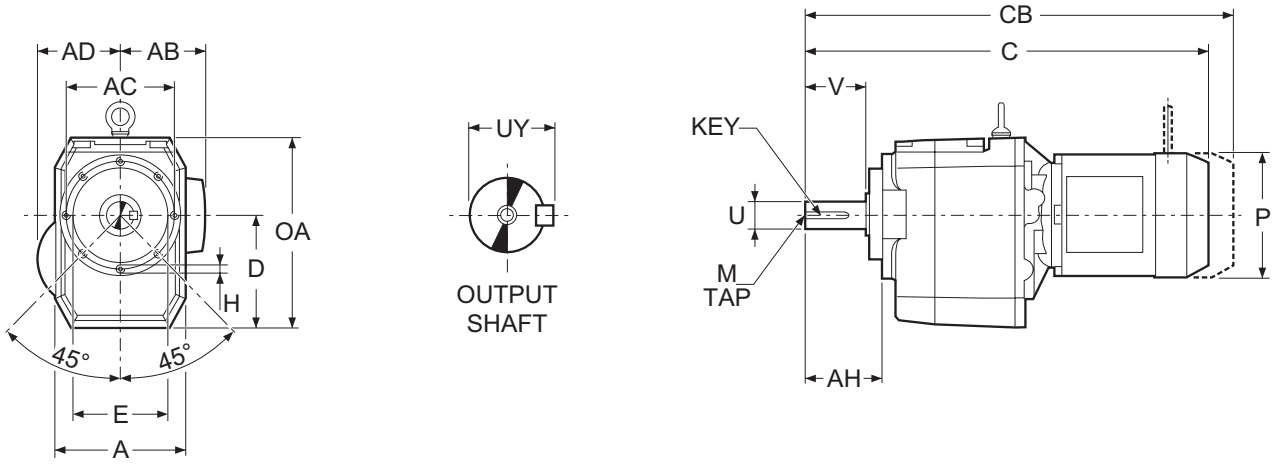
Output shaft (Inch series)

		U	UY	V	Key	M
C 51 2, C 51 3, C 51 4	**NP**	1.5625 $^{+0}_{-0.0006}$	1.730	3.125	3/8 x 3/8 x 2 7/8	5/8 - 11 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 51 2_S1 M1	4.252	20.37	22.78	5.433	114 / *52*
C 51 3_S1 M1	*108*	*517.5*	*578.5*	*138*	
C 51 2_S2 M2S	4.685	21.52	24.27	6.142	125 / *57*
C 51 3_S2 M2S	*119*	*546.5*	*616.5*	*156*	
C 51 2_S3 M3S	5.591	23.21	26.99	7.677	143 / *65*
C 51 3_S3 M3S	*142*	*589.5*	*685.5*	*195*	
C 51 2_S3 M3L	5.591	24.47	28.05	7.677	158 / *72*
C 51 3_S3 M3L	*142*	*621.5*	*712.5*	*195*	
C 51 2_S4 M4S	7.598	28.72	33.01	10.157	216 / *98*
C 51 3_S4 M4S	*193*	*729.5*	*838.5*	*258*	
C 51 2_S4 M4L	7.598	28.72	33.01	10.157	257 / *117*
C 51 3_S4 M4L	*193*	*729.5*	*838.5*	*258*	
C 51 2_S4 M4LC	7.598	30.10	34.00	10.157	275 / *125*
C 51 3_S4 M4LC	*193*	*764.5*	*863.5*	*258*	
C 51 4_S1 M1	4.252	23.19	25.59	5.433	121 / *55*
	108	*589*	*650*	*138*	
C 51 4_S2 M2S	4.685	24.33	27.09	6.142	132 / *60*
	119	*618*	*688*	*156*	
C 51 4_S3 M3S	5.591	26.02	29.80	7.677	150 / *68*
	142	*661*	*757*	*195*	
C 51 4_S3 M3L	5.591	27.28	30.87	7.677	165 / *75*
	142	*693*	*784*	*195*	

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	AH	D	E	H	OA
C 51 2, C 51 3, C 51 4	7.283 *185*	5.512 *140*	4.724 *120*	3.917 *99.5*	5.984 *152*	4.724 *120*	*M10x15 [mm]*	10.827 *275*

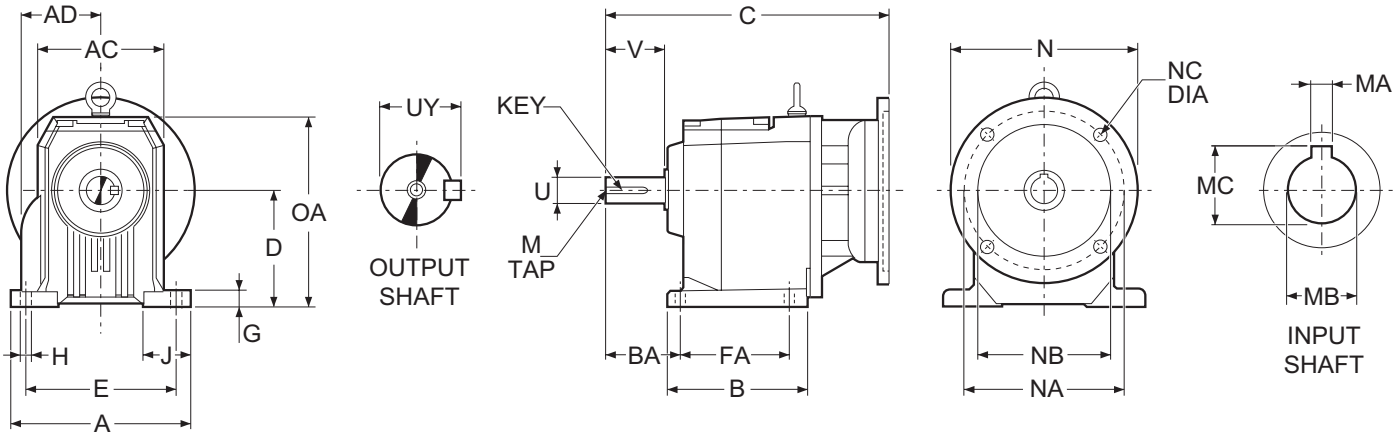
Output shaft (Inch series)

		U	UY	V	Key	M
C 51 2, C 51 3, C 51 4	**NU**	1.5625 $^{+0}_{-0.0006}$	1.730	3.125	3/8 x 3/8 x 2 7/8	5/8 - 11 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 51 2_S1 M1 **C 51 3_S1 M1**	4.252 *108*	20.37 *517.5*	22.78 *578.5*	5.433 *138*	114 / *52*
C 51 2_S2 M2S **C 51 3_S2 M2S**	4.685 *119*	21.52 *546.5*	24.27 *616.5*	6.142 *156*	125 / *57*
C 51 2_S3 M3S **C 51 3_S3 M3S**	5.591 *142*	23.21 *589.5*	26.99 *685.5*	7.677 *195*	143 / *65*
C 51 2_S3 M3L **C 51 3_S3 M3L**	5.591 *142*	24.47 *621.5*	28.05 *712.5*	7.677 *195*	158 / *72*
C 51 2_S4 M4S **C 51 3_S4 M4S**	7.598 *193*	28.72 *729.5*	33.01 *838.5*	10.157 *258*	216 / *98*
C 51 2_S4 M4L **C 51 3_S4 M4L**	7.598 *193*	28.72 *729.5*	33.01 *838.5*	10.157 *258*	257 / *117*
C 51 2_S4 M4LC **C 51 3_S4 M4LC**	7.598 *193*	30.10 *764.5*	34.00 *863.5*	10.157 *258*	275 / *125*
C 51 4_S1 M1	4.252 *108*	23.19 *589*	25.59 *650*	5.433 *138*	121 / *55*
C 51 4_S2 M2S	4.685 *119*	24.33 *618*	27.09 *688*	6.142 *156*	132 / *60*
C 51 4_S3 M3S	5.591 *142*	26.02 *661*	29.80 *757*	7.677 *195*	150 / *68*
C 51 4_S3 M3L	5.591 *142*	27.28 *693*	30.87 *784*	7.677 *195*	165 / *75*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	D	E	FA	G	H	J	OA
C 51 2, C 51 3, C 51 4	10.630	7.283	4.724	7.874	4.134	6.102	8.858	6.142	0.866	0.709	2.953	10.945
	270	*185*	*120*	*200*	*105*	*155*	*225*	*156*	*22*	*18*	*75*	*278*

Output shaft (Inch series)

		U	UY	V	Key	M
C 51 2, C 51 3, C 51 4	**NP**	1.5625 $^{+0}_{-0.0006}$	1.730	3.125	3/8 x 3/8 x 2 7/8	5/8 - 11 UNC

NEMA Flange

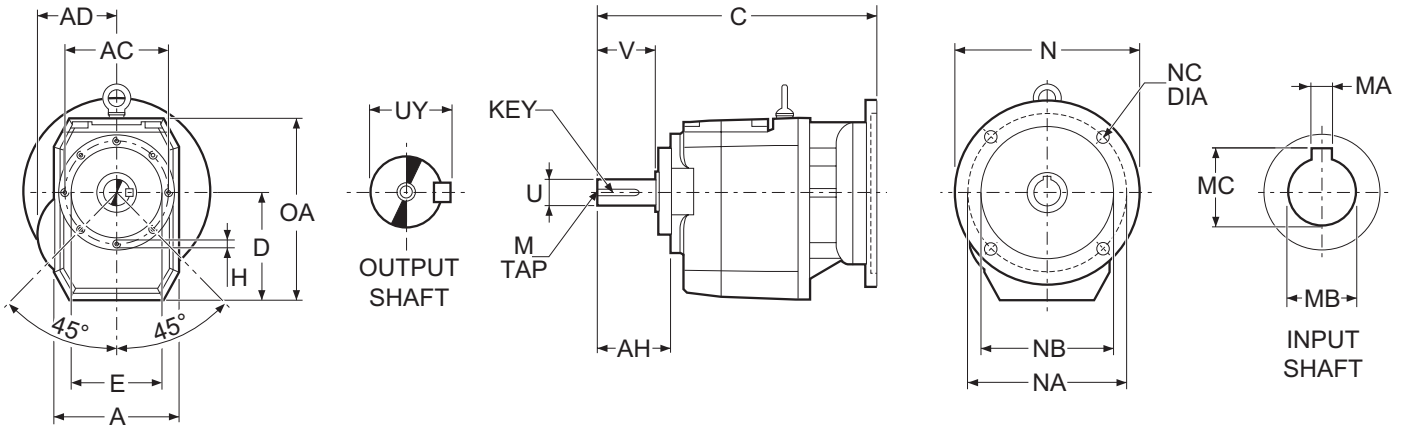
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	104 / *47*
N140TC	6.496	5.875	4.500	0.394	108 / *49*
N180TC	8.996	7.250	8.500	0.551	117 / *53*
N210TC	8.996	7.250	8.500	0.551	119 / *54*
N250TC	13.780	7.250	8.500	0.551	128 / *58*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518
N250TC	0.375	1.625	1.796

	C				
	N56C	**N140TC**	**N180TC**	**N210TC**	**N250TC**
C 51 2	15.03	15.03	15.56	16.80	19.83
	381.8	*381.8*	*395.3*	*426.8*	*503.8*
C 51 3	15.03	15.03	15.56	16.80	19.83
	381.8	*381.8*	*395.3*	*426.8*	*503.8*
C 51 4	17.84	17.85	18.38	—	—
	453.3	*453.4*	*466.8*		

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	AH	D	E	H	OA
C 51 2, C 51 3, C 51 4	7.283 *185*	5.512 *140*	4.724 *120*	3.917 *99.5*	5.984 *152*	4.724 *120*	*M10x15 [mm]*	10.827 *275*

Output shaft (Inch series)

		U	UY	V	Key	M
C 51 2, C 51 3, C 51 4	**NU**	1.5625 $^{+0}_{-0.0006}$	1.730	3.125	3/8 x 3/8 x 2 7/8	5/8 - 11 UNC

NEMA Flange

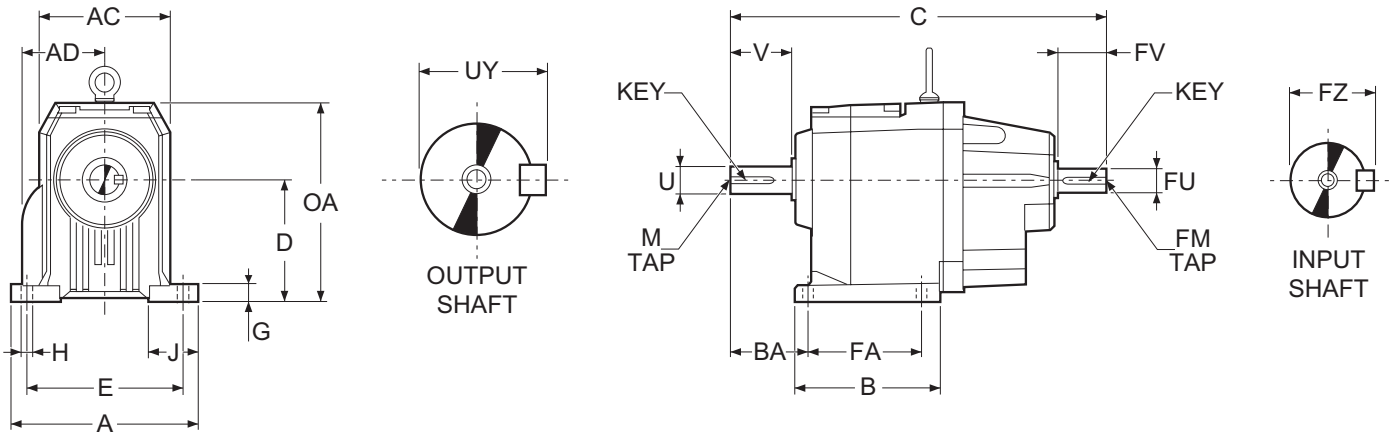
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	104 / *47*
N140TC	6.496	5.875	4.500	0.394	108 / *49*
N180TC	8.996	7.250	8.500	0.551	117 / *53*
N210TC	8.996	7.250	8.500	0.551	119 / *54*
N250TC	13.780	7.250	8.500	0.551	128 / *58*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518
N250TC	0.375	1.625	1.796

	C				
	N56C	**N140TC**	**N180TC**	**N210TC**	**N250TC**
C 51 2	15.03 *381.8*	15.03 *381.8*	15.56 *395.3*	16.80 *426.8*	19.83 *503.8*
C 51 3	15.03 *381.8*	15.03 *381.8*	15.56 *395.3*	16.80 *426.8*	19.83 *503.8*
C 51 4	17.84 *453.3*	17.85 *453.4*	18.38 *466.8*	—	—

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	C	D	E	FA	G	H	J	OA
C 51 2, C 51 3	10.630	7.283	4.724	7.874	4.134	17.75	6.102	8.858	6.142	0.866	0.709	2.953	10.945
	270	*185*	*120*	*200*	*105*	*450.9*	*155*	*225*	*156*	*22*	*18*	*75*	*278*
C 51 4	10.630	7.283	4.724	7.874	4.134	19.03	6.102	8.858	6.142	0.866	0.709	2.953	10.945
	270	*185*	*120*	*200*	*105*	*483.4*	*155*	*225*	*156*	*22*	*18*	*75*	*278*

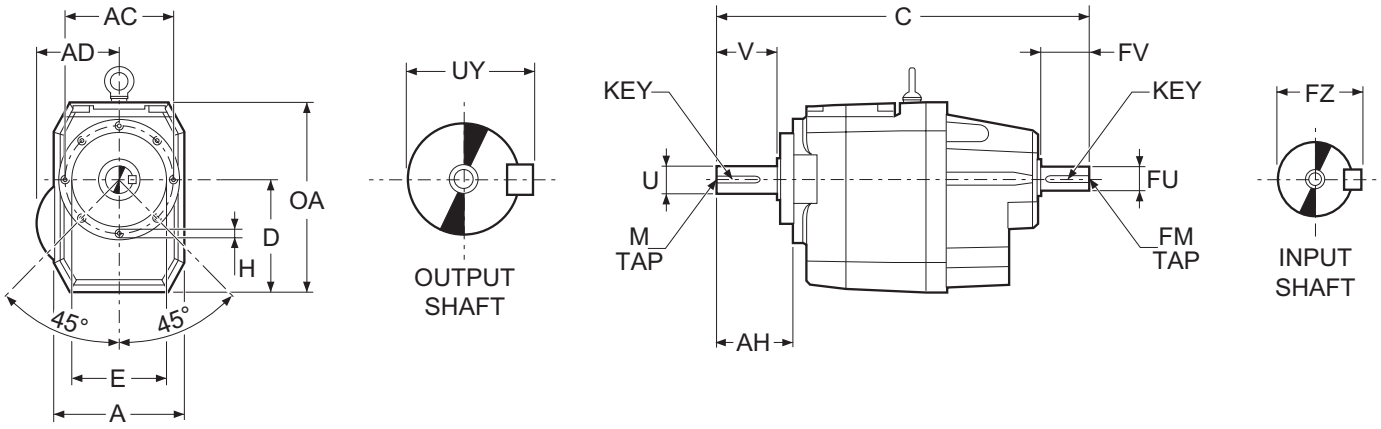
Output shaft (Inch series)

		U	UY	V	Key	M
C 51 2, C 51 3, C 51 4	**NP**	1.5625 $^{+0}_{-0.0006}$	1.730	3.125	3/8 x 3/8 x 2 7/8	5/8 - 11 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 51 2, C 51 3	**NHS**	1.000 $^{+0}_{-0.0005}$	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	99 / *45*
C 51 4	**NHS**	0.750 $^{+0}_{-0.0005}$	0.830	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	106 / *48*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	AH	C	D	E	H	OA
C 51 2, C 51 3	7.283 *185*	5.512 *140*	4.724 *120*	3.917 *99.5*	17.75 *450.9*	5.984 *152*	4.724 *120*	*M10x15 [mm]*	10.827 *275*
C 51 4	7.283 *185*	5.512 *140*	4.724 *120*	3.917 *99.5*	19.03 *483.4*	5.984 *152*	4.724 *120*	*M10x15 [mm]*	10.827 *275*

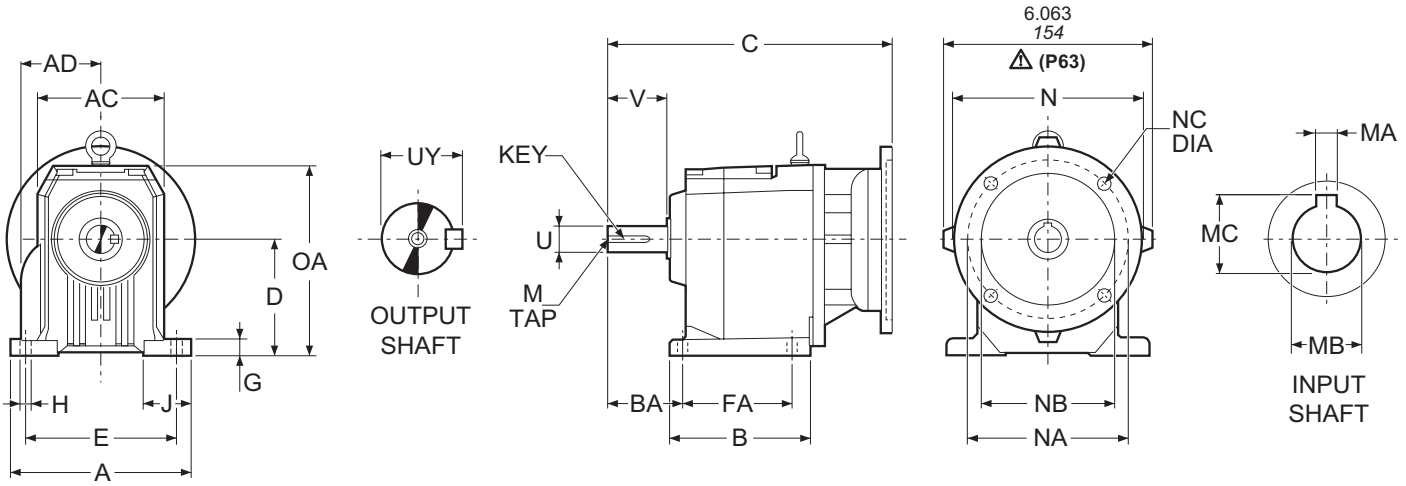
Output shaft (Inch series)

		U		UY	V	Key	M
C 51 2, C 51 3, C 51 4	**NU**	1.5625	$^{+0}_{-0.0006}$	1.730	3.125	3/8 x 3/8 x 2 7/8	5/8 - 11 UNC

Input shaft (Inch series)

		FU		FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 51 2, C 51 3	**NHS**	1.000	$^{+0}_{-0.0005}$	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	99 / *45*
C 51 4	**NHS**	0.750	$^{+0}_{-0.0005}$	0.830	1.570	3/16 x 3/16 x 1 3/8	1/4 - 20 UNC	106 / *48*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	D	E	FA	G	H	J	OA
C 51 2, C 51 3, C 51 4	10.630	7.283	4.724	7.874	4.134	6.102	8.858	6.142	0.866	0.709	2.953	10.945
	270	*185*	*120*	*200*	*105*	*155*	*225*	*156*	*22*	*18*	*75*	*278*

Output shaft (Inch series)

		U	UY	V	Key	M
C 51 2, C 51 3, C 51 4	**NP**	1.5625 $^{+0}_{-0.0006}$	1.730	3.125	3/8 x 3/8 x 2 7/8	5/8 - 11 UNC

IEC Flange

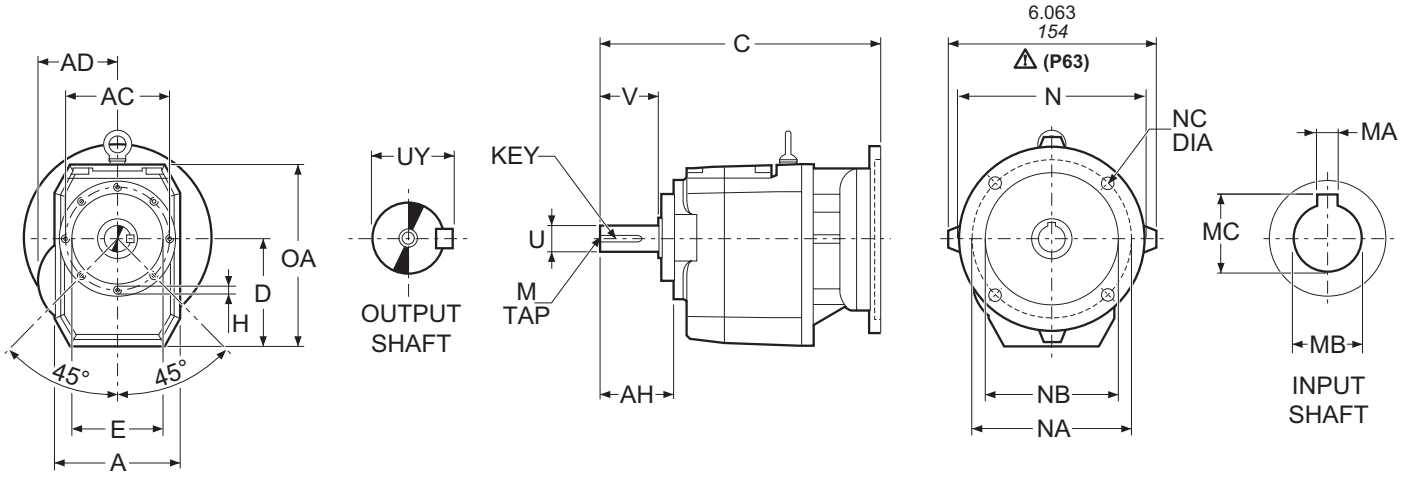
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	140	115	95	M8x19	103 / *47*
P71	160	130	110	M8x16	103 / *47*
P80, P90	200	165	130	M10x12	108 / *49*
P100, P112	250	215	180	M12x16	117 / *53*
P132	300	265	230	14	119 / *54*
P160, P180	350	300	250	18	128 / *58*

Hollow input shaft

	MA	MB	MC
P63	4	11	12.8
P71	5	14	16.3
P80	6	19	21.8
P90	8	24	27.3
P100, P112	8	28	31.3
P132	10	38	41.3
P160	12	42	45.3
P180	14	48	51.8

	C				
	P63 P71	**P80 P90**	**P100 P112**	**P132**	**P160 P180**
C 51 2, C 51 3	14.27	15.04	15.43	16.87	18.86
	362.5	*382*	*392*	*428.5*	*479*
C 51 4	17.09	17.85	18.25	—	—
	434	*453.5*	*463.5*		

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	AH	D	E	H	OA
C 51 2, C 51 3, C 51 4	7.283 *185*	5.512 *140*	4.724 *120*	3.917 *99.5*	5.984 *152*	4.724 *120*	*M10x15 [mm]*	10.827 *275*

Output shaft (Inch series)

		U	UY	V	Key	M
C 51 2, C 51 3, C 51 4	**NU**	1.5625 $^{+0}_{-0.0006}$	1.730	3.125	3/8 x 3/8 x 2 7/8	5/8 - 11 UNC

IEC Flange

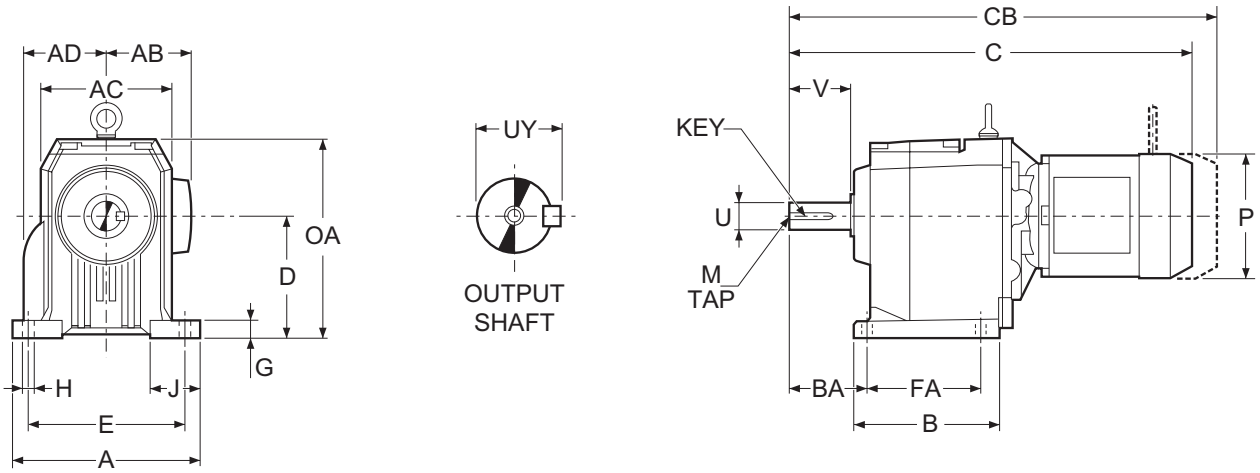
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	140	115	95	M8x19	103 / *47*
P71	160	130	110	M8x16	103 / *47*
P80, P90	200	165	130	M10x12	108 / *49*
P100, P112	250	215	180	M12x16	117 / *53*
P132	300	265	230	14	119 / *54*
P160, P180	350	300	250	18	128 / *58*

Hollow input shaft

	MA	MB	MC
P63	4	11	12.8
P71	5	14	16.3
P80	6	19	21.8
P90	8	24	27.3
P100, P112	8	28	31.3
P132	10	38	41.3
P160	12	42	45.3
P180	14	48	51.8

	C				
	P63 P71	**P80 P90**	**P100 P112**	**P132**	**P160 P180**
C 51 2, C 51 3	14.27 *362.5*	15.04 *382*	15.43 *392*	16.87 *428.5*	18.86 *479*
C 51 4	17.09 *434*	17.85 *453.5*	18.25 *463.5*	—	—

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	D	E	FA	G	H	J	OA
C 61 2, C 61 3, C 61 4	11.811	8.268	5.236	9.134	4.359	7.677	9.843	7.087	0.984	0.709	3.150	12.441
	300	*210*	*133*	*232*	*111*	*195*	*250*	*180*	*25*	*18*	*80*	*316*

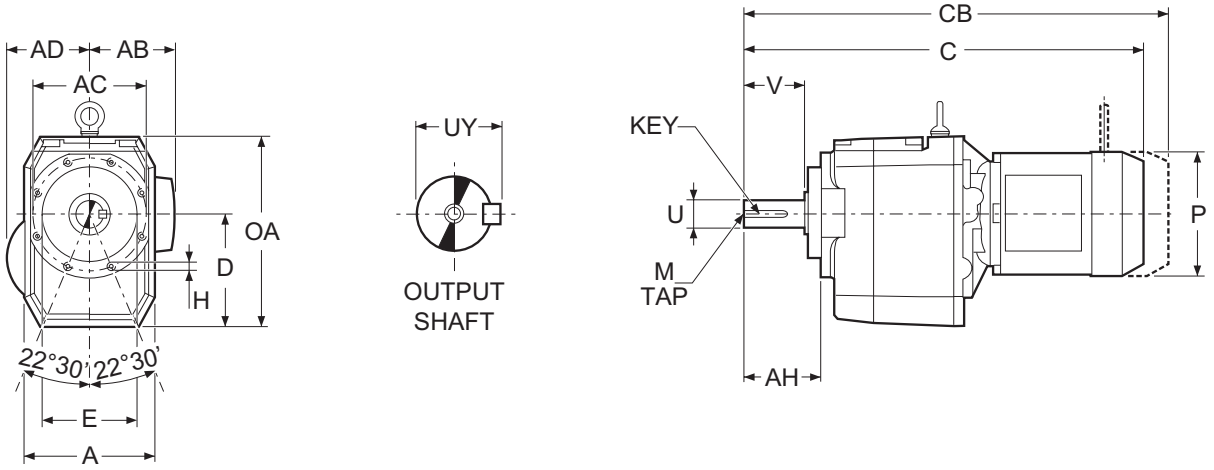
Output shaft (Inch series)

		U	UY	V	Key	M
C 61 2, C 61 3, C 61 4	**NP**	2.000 $^{+0}_{-0.0007}$	2.220	3.375	1/2 x 1/2 x 3 5/32	3/4 - 10 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 61 2_S2 M2S	4.685	23.04	25.80	6.142	143 / *65*
C 61 3_S2 M2S	*119*	*585.2*	*655.2*	*156*	
C 61 2_S3 M3S	5.591	24.73	28.51	7.677	163 / *74*
C 61 3_S3 M3S	*142*	*628.2*	*724.2*	*195*	
C 61 2_S3 M3L	5.591	25.99	29.58	7.677	178 / *81*
C 61 3_S3 M3L	*142*	*660.2*	*751.2*	*195*	
C 61 2_S4 M4S	7.598	30.25	34.54	10.157	235 / *107*
C 61 3_S4 M4S	*193*	*768.2*	*877.2*	*258*	
C 61 2_S4 M4L	7.598	30.25	34.54	10.157	277 / *126*
C 61 3_S4 M4L	*193*	*768.2*	*877.2*	*258*	
C 61 2_S4 M4LC	7.598	31.62	35.52	10.157	295 / *134*
C 61 3_S4 M4LC	*193*	*803.2*	*902.2*	*258*	
C 61 2_S5 M5S	9.646	33.65	39.16	12.205	365 / *166*
C 61 3_S5 M5S	*245*	*854.7*	*994.7*	*310*	
C 61 2_S5 M5L	9.646	35.38	40.90	12.205	400 / *182*
C 61 3_S5 M5L	*245*	*898.7*	*1038.7*	*310*	
C 61 4_S1 M1	4.252	24.67	27.08	5.433	163 / *74*
	108	*626.7*	*687.7*	*138*	
C 61 4_S2 M2S	4.685	25.82	28.57	6.142	172 / *78*
	119	*655.7*	*725.7*	*156*	
C 61 4_S3 M3S	5.591	27.51	31.29	7.677	191 / *87*
	142	*698.7*	*794.7*	*195*	
C 61 4_S3 M3L	5.591	28.77	32.35	7.677	207 / *94*
	142	*730.7*	*821.7*	*195*	

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	AH	D	E	H	OA
C 61 2, C 61 3, C 61 4	8.268 *210*	7.087 *180*	5.236 *133*	4.359 *111*	7.028 *178.5*	5.669 *144*	*M12x18 [mm]*	11.791 *299.5*

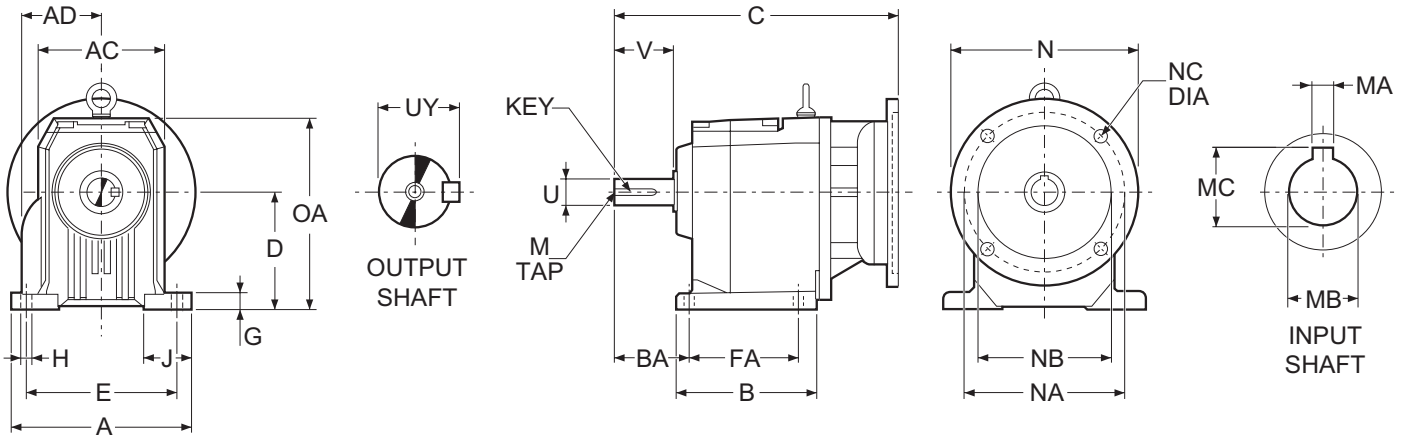
Output shaft (Inch series)

		U	UY	V	Key	M
C 61 2, C 61 3, C 61 4	**NU**	2.000 $^{+0}_{-0.0007}$	2.220	3.375	1/2 x 1/2 x 3 5/32	3/4 - 10 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 61 2_S2 M2S **C 61 3_S2 M2S**	4.685 *119*	23.04 *585.2*	25.80 *655.2*	6.142 *156*	143 / *65*
C 61 2_S3 M3S **C 61 3_S3 M3S**	5.591 *142*	24.73 *628.2*	28.51 *724.2*	7.677 *195*	163 / *74*
C 61 2_S3 M3L **C 61 3_S3 M3L**	5.591 *142*	25.99 *660.2*	29.58 *751.2*	7.677 *195*	178 / *81*
C 61 2_S4 M4S **C 61 3_S4 M4S**	7.598 *193*	30.25 *768.2*	34.54 *877.2*	10.157 *258*	235 / *107*
C 61 2_S4 M4L **C 61 3_S4 M4L**	7.598 *193*	30.25 *768.2*	34.54 *877.2*	10.157 *258*	277 / *126*
C 61 2_S4 M4LC **C 61 3_S4 M4LC**	7.598 *193*	31.62 *803.2*	35.52 *902.2*	10.157 *258*	295 / *134*
C 61 2_S5 M5S **C 61 3_S5 M5S**	9.646 *245*	33.65 *854.7*	39.16 *994.7*	12.205 *310*	365 / *166*
C 61 2_S5 M5L **C 61 3_S5 M5L**	9.646 *245*	35.38 *898.7*	40.90 *1038.7*	12.205 *310*	400 / *182*
C 61 4_S1 M1	4.252 *108*	24.67 *626.7*	27.08 *687.7*	5.433 *138*	163 / *74*
C 61 4_S2 M2S	4.685 *119*	25.82 *655.7*	28.57 *725.7*	6.142 *156*	172 / *78*
C 61 4_S3 M3S	5.591 *142*	27.51 *698.7*	31.29 *794.7*	7.677 *195*	191 / *87*
C 61 4_S3 M3L	5.591 *142*	28.77 *730.7*	32.35 *821.7*	7.677 *195*	207 / *94*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	D	E	FA	G	H	J	OA
C 61 2, C 61 3, C 61 4	11.811	8.268	5.236	9.134	4.359	7.677	9.843	7.087	0.984	0.709	3.150	12.441
	300	*210*	*133*	*232*	*111*	*195*	*250*	*180*	*25*	*18*	*80*	*316*

Output shaft (Inch series)

		U	UY	V	Key	M
C 61 2, C 61 3, C 61 4	**NP**	2.000 $^{+0}_{-0.0007}$	2.220	3.375	1/2 x 1/2 x 3 5/32	3/4 - 10 UNC

NEMA Flange

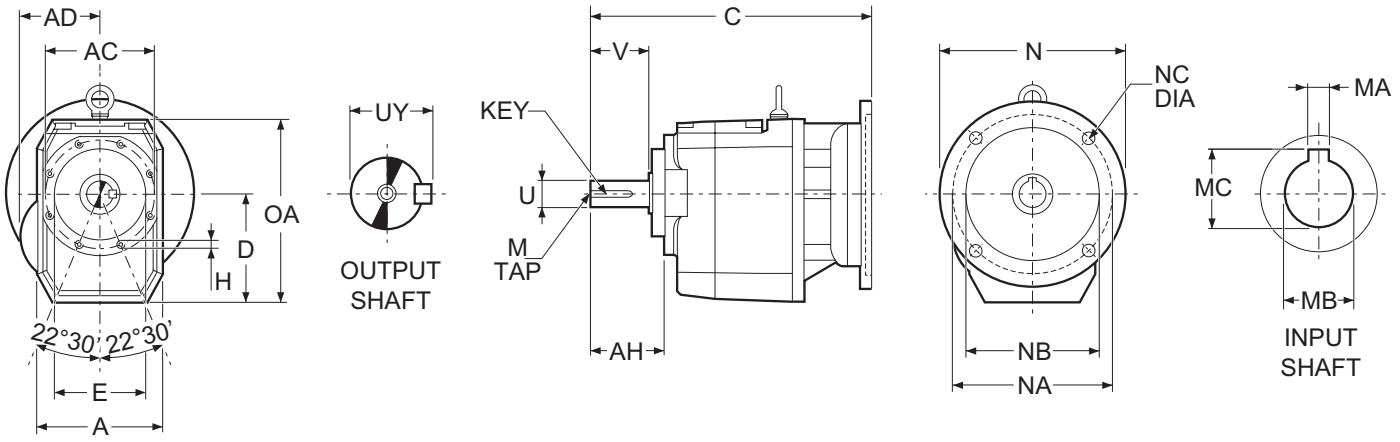
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	139 / *63*
N140TC	6.496	5.875	4.500	0.394	148 / *67*
N180TC	8.996	7.250	8.500	0.551	157 / *71*
N210TC	8.996	7.250	8.500	0.551	150 / *68*
N250TC	13.780	7.250	8.500	0.551	161 / *73*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518
N250TC	0.375	1.625	1.796

	C				
	N56C	**N140TC**	**N180TC**	**N210TC**	**N250TC**
C 61 2	17.11	17.11	17.65	18.89	21.37
	434.7	*434.7*	*448.2*	*479.7*	*542.7*
C 61 3	17.11	17.11	17.65	18.89	21.37
	434.7	*434.7*	*448.2*	*479.7*	*542.7*
C 61 4	19.89	19.89	20.42	—	—
	505.2	*505.2*	*518.7*		

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	AH	D	E	H	OA
C 61 2, C 61 3, C 61 4	8.268 *210*	7.087 *180*	5.236 *133*	4.359 *111*	7.028 *178.5*	5.669 *144*	*M12x18 [mm]*	11.791 *299.5*

Output shaft (Inch series)

		U	UY	V	Key	M
C 61 2, C 61 3, C 61 4	**NU**	2.000 $^{+0}_{-0.0007}$	2.220	3.375	1/2 x 1/2 x 3 5/32	3/4 - 10 UNC

NEMA Flange

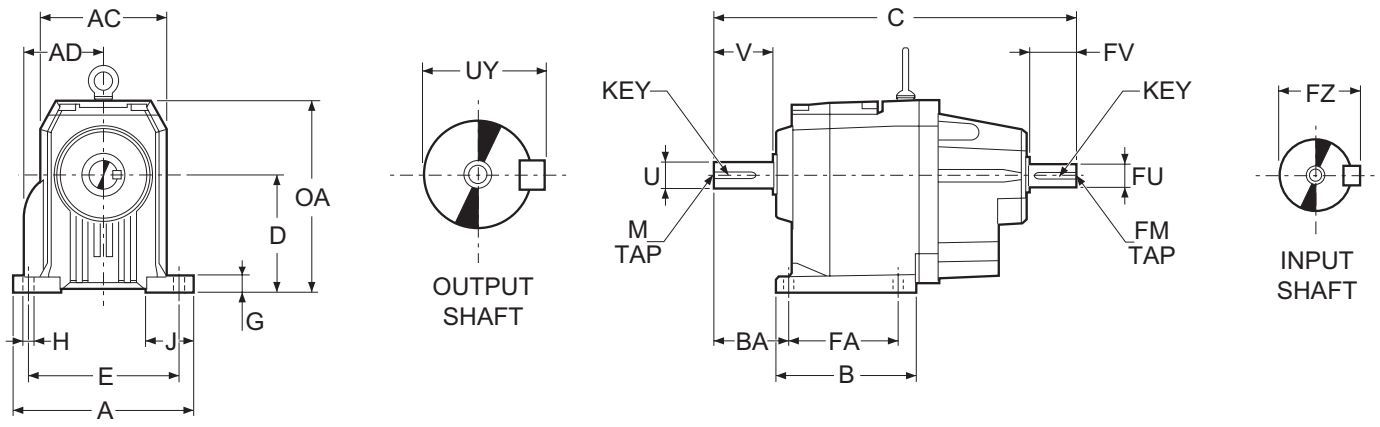
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	139 / *63*
N140TC	6.496	5.875	4.500	0.394	148 / *67*
N180TC	8.996	7.250	8.500	0.551	157 / *71*
N210TC	8.996	7.250	8.500	0.551	150 / *68*
N250TC	13.780	7.250	8.500	0.551	161 / *73*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518
N250TC	0.375	1.625	1.796

	C				
	N56C	**N140TC**	**N180TC**	**N210TC**	**N250TC**
C 61 2	17.11 *434.7*	17.11 *434.7*	17.65 *448.2*	18.89 *479.7*	21.37 *542.7*
C 61 3	17.11 *434.7*	17.11 *434.7*	17.65 *448.2*	18.89 *479.7*	21.37 *542.7*
C 61 4	19.89 *505.2*	19.89 *505.2*	20.42 *518.7*	—	—

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	C	D	E	FA	G	H	J	OA
C 61 2, C 61 3	11.811	8.268	5.236	9.134	4.359	20.37	7.677	9.843	7.087	0.984	0.709	3.150	12.441
	300	*210*	*133*	*232*	*111*	*517.3*	*195*	*250*	*180*	*25*	*18*	*80*	*316*
C 61 4	11.811	8.268	5.236	9.134	4.359	22.08	7.677	9.843	7.087	0.984	0.709	3.150	12.441
	300	*210*	*133*	*232*	*111*	*560.7*	*195*	*250*	*180*	*25*	*18*	*80*	*316*

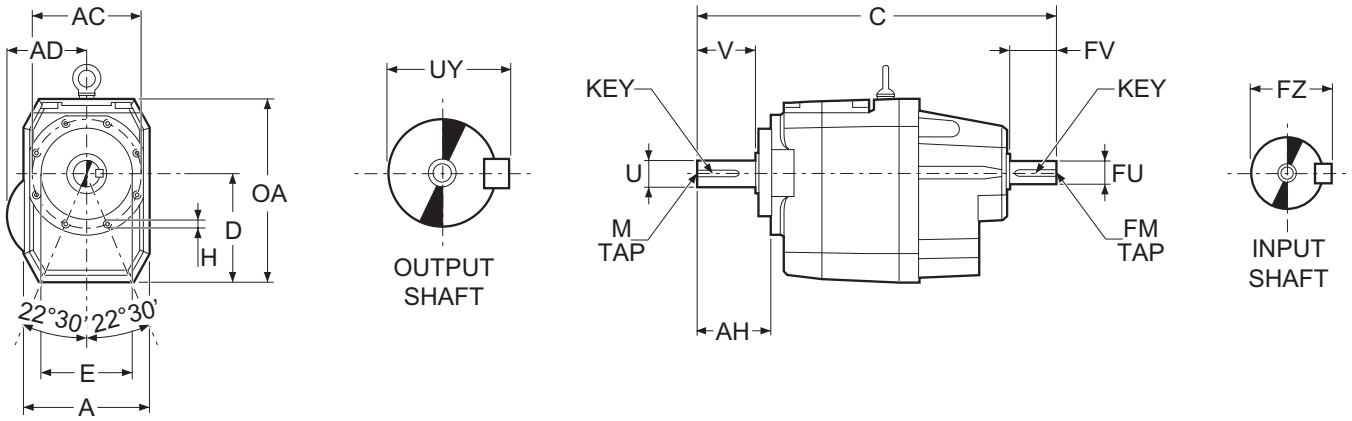
Output shaft (Inch series)

		U	UY	V	Key	M
C 61 2, C 61 3, C 61 4	**NP**	2.000 $^{+0}_{-0.0007}$	2.220	3.375	1/2 x 1/2 x 3 5/32	3/4 - 10 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 61 2, C 61 3	**NHS**	1.125 $^{+0}_{-0.0005}$	1.230	2.360	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC	145 / *66*
C 61 4	**NHS**	1.000 $^{+0}_{-0.0005}$	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	158 / *72*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	AH	C	D	E	H	OA
C 61 2, C 61 3	8.268	7.087	5.236	4.359	20.37	7.028	5.669	*M12x18 [mm]*	11.791
	210	*180*	*133*	*111*	*517.3*	*178.5*	*144*		*299.5*
C 61 4	8.268	7.087	5.236	4.359	22.08	7.028	5.669	*M12x18 [mm]*	11.791
	210	*180*	*133*	*111*	*560.7*	*178.5*	*144*		*299.5*

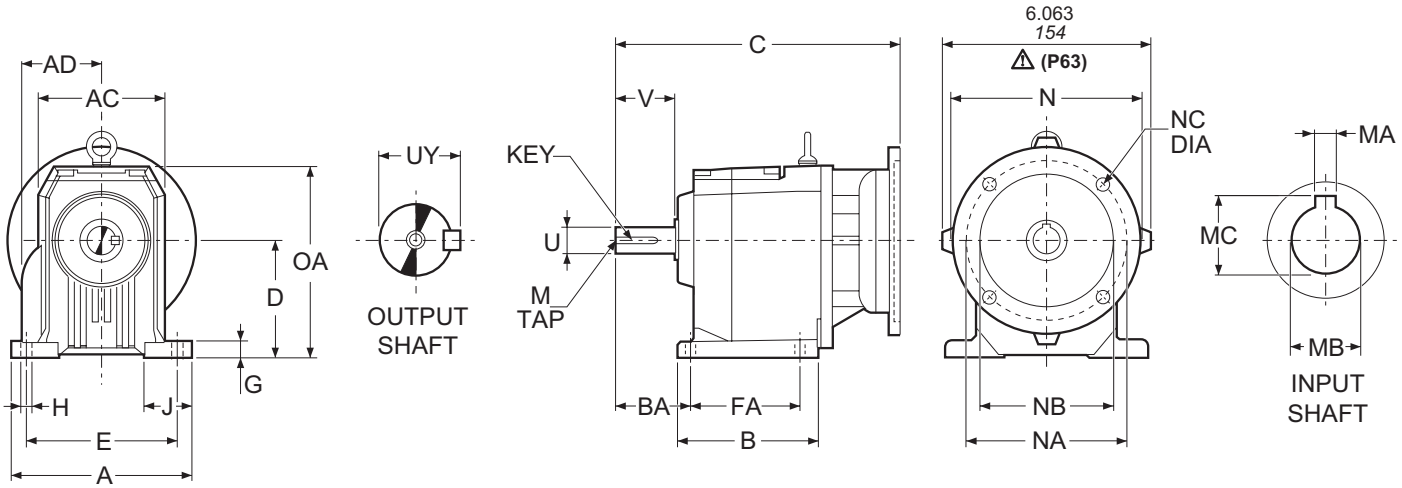
Output shaft (Inch series)

Model		U		UY	V	Key	M
C 61 2, C 61 3, C 61 4	**NU**	2.000	$^{+0}_{-0.0007}$	2.220	3.375	1/2 x 1/2 x 3 5/32	3/4 - 10 UNC

Input shaft (Inch series)

		FU		FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 61 2, C 61 3	**NHS**	1.125	$^{+0}_{-0.0005}$	1.230	2.360	1/4 x 1/4 x 2 5/32	3/8 - 16 UNC	145 / *66*
C 61 4	**NHS**	1.000	$^{+0}_{-0.0005}$	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	158 / *72*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	B	BA	D	E	FA	G	H	J	OA
C 61 2, C 61 3, C 61 4	11.811	8.268	5.236	9.134	4.359	7.677	9.843	7.087	0.984	0.709	3.150	12.441
	300	*210*	*133*	*232*	*111*	*195*	*250*	*180*	*25*	*18*	*80*	*316*

Output shaft (Inch series)

		U	UY	V	Key	M
C 61 2, C 61 3, C 61 4	**NP**	2.000 $^{+0}_{-0.0007}$	2.220	3.375	1/2 x 1/2 x 3 5/32	3/4 - 10 UNC

IEC Flange

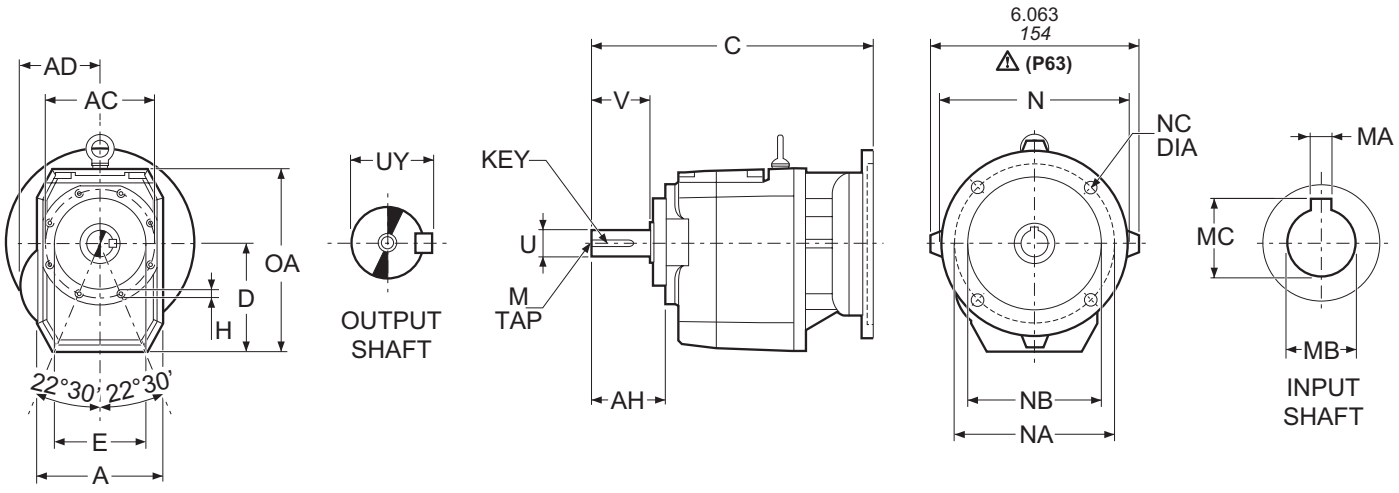
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	134 / *61*
P71	*160*	*130*	*110*	*M8x16*	139 / *63*
P80, P90	*200*	*165*	*130*	*M10x12*	147 / *67*
P100, P112	*250*	*215*	*180*	*M12x16*	156 / *71*
P132	*300*	*265*	*230*	*14*	150 / *68*
P160, P180	*350*	*300*	*250*	*18*	161 / *73*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*
P132	*10*	*38*	*41.3*
P160	*12*	*42*	*45.3*
P180	*14*	*48*	*51.8*

	C					
	P63	**P71**	**P80 P90**	**P100 P112**	**P132**	**P160 P180**
C 61 2, C 61 3	15.77	15.77	16.54	16.89	18.37	20.35
	400.5	*400.5*	*420*	*429*	*466.5*	*517*
C 61 4	18.54	18.66	19.31	19.71	—	—
	471	*474*	*490.5*	*500.5*		

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	AD	AH	D	E	H	OA
C 61 2, C 61 3, C 61 4	8.268 *210*	7.087 *180*	5.236 *133*	4.359 *111*	7.028 *178.5*	5.669 *144*	*M12x18 [mm]*	11.791 *299.5*

Output shaft (Inch series)

		U	UY	V	Key	M
C 61 2, C 61 3, C 61 4	**NU**	2.000 $^{+0}_{-0.0007}$	2.220	3.375	1/2 x 1/2 x 3 5/32	3/4 - 10 UNC

IEC Flange

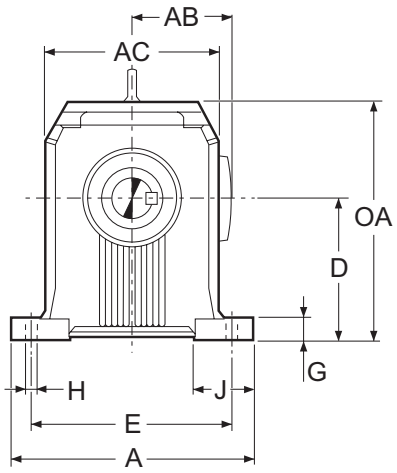
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	134 / *61*
P71	*160*	*130*	*110*	*M8x16*	139 / *63*
P80, P90	*200*	*165*	*130*	*M10x12*	147 / *67*
P100, P112	*250*	*215*	*180*	*M12x16*	156 / *71*
P132	*300*	*265*	*230*	*14*	150 / *68*
P160, P180	*350*	*300*	*250*	*18*	161 / *73*

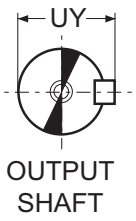
Hollow input shaft

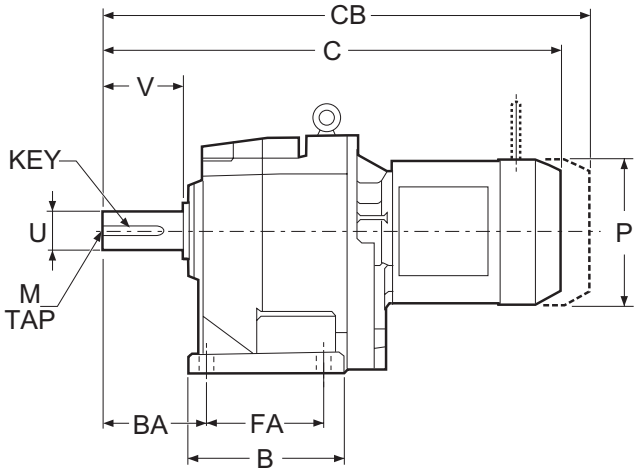
	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*
P132	*10*	*38*	*41.3*
P160	*12*	*42*	*45.3*
P180	*14*	*48*	*51.8*

	C					
	P63	**P71**	**P80 P90**	**P100 P112**	**P132**	**P160 P180**
C 61 2, C 61 3	15.77 *400.5*	15.77 *400.5*	16.54 *420*	16.89 *429*	18.37 *466.5*	20.35 *517*
C 61 4	18.54 *471*	18.66 *474*	19.31 *490.5*	19.71 *500.5*	—	—

Dimensions are $\frac{\text{inch}}{mm}$







Gearcase

	A	AC	B	BA	D	E	FA	G	H	J	OA
C 70 2, C 70 3, C 70 4	13.780 *350*	10.315 *262*	8.740 *222*	5.709 *145*	8.268 *210*	11.811 *300*	6.496 *165*	1.181 *30*	0.866 *22*	3.346 *85*	13.740 *349*

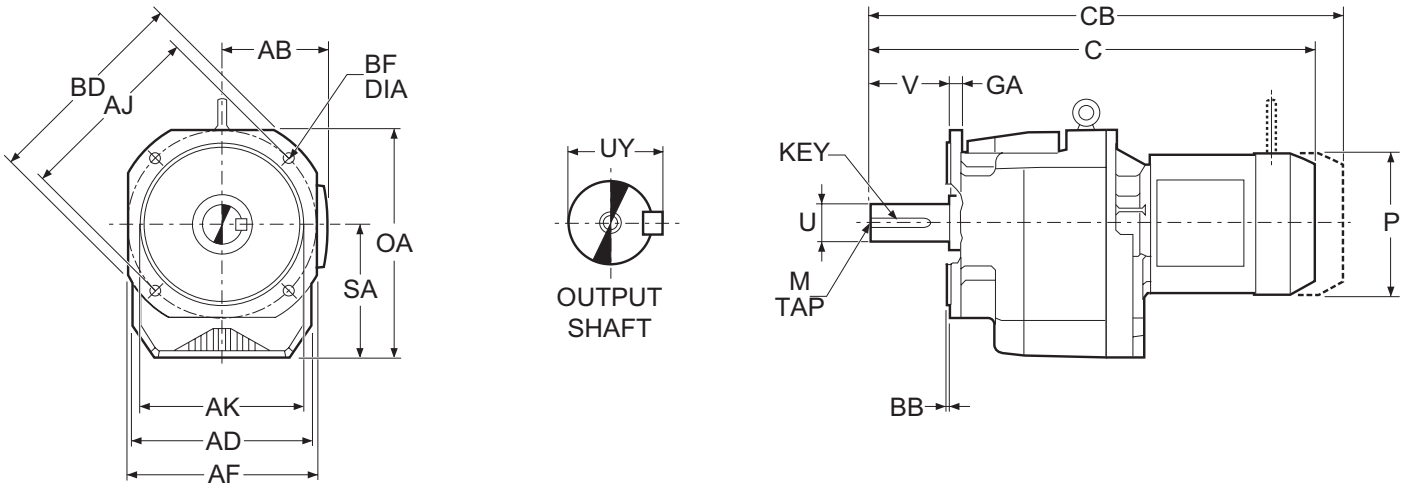
Output shaft (Inch series)

		U	UY	V	Key	M
C 70 2, C 70 3, C 70 4	**NP**	2.375 $^{+0}_{-0.0007}$	2.646	4.724	5/8 x 5/8 x 3 5/8	3/4 - 10 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 70 2_S2 M2S **C 70 3_S2 M2S**	4.685 *119*	25.10 *637.5*	27.85 *707.5*	6.142 *156*	202 / *92*
C 70 2_S3 M3S **C 70 3_S3 M3S**	5.591 *142*	26.79 *680.5*	30.57 *776.5*	7.677 *195*	222 / *101*
C 70 2_S3 M3L **C 70 3_S3 M3L**	5.591 *142*	28.05 *712.5*	31.63 *803.5*	7.677 *195*	238 / *108*
C 70 2_S4 M4S **C 70 3_S4 M4S**	7.598 *193*	32.30 *820.5*	36.59 *929.5*	10.157 *258*	295 / *134*
C 70 2_S4 M4L **C 70 3_S4 M4L**	7.598 *193*	32.30 *820.5*	36.59 *929.5*	10.157 *258*	337 / *153*
C 70 2_S4 M4LC **C 70 3_S4 M4LC**	7.598 *193*	33.68 *855.5*	37.58 *954.5*	10.157 *258*	354 / *161*
C 70 2_S5 M5S **C 70 3_S5 M5S**	9.646 *245*	35.71 *907*	41.22 *1047*	12.205 *310*	425 / *193*
C 70 2_S5 M5L **C 70 3_S5 M5L**	9.646 *245*	37.44 *951*	42.95 *1091*	12.205 *310*	460 / *209*
C 70 4_S1 M1	4.252 *108*	25.97 *659.5*	28.37 *720.5*	5.433 *138*	202 / *91*
C 70 4_S2 M2S	4.685 *119*	27.11 *688.5*	29.86 *758.5*	6.142 *156*	211 / *96*
C 70 4_S3 M3S	5.591 *142*	28.80 *731.5*	32.58 *827.5*	7.677 *195*	229 / *104*
C 70 4_S3 M3L	5.591 *142*	30.06 *763.5*	33.64 *854.5*	7.677 *195*	244 / *111*
C 70 4_S4 M4S	7.598 *193*	34.31 *871.5*	38.60 *980.5*	10.157 *258*	301 / *137*
C 70 4_S4 M4L	7.598 *193*	34.31 *871.5*	38.60 *980.5*	10.157 *258*	343 / *156*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	AD	SA	OA
C 70 2, C 70 3, C 70 4	10.315	8.189	14.094
	262	*208*	*358*

Flange

AF	AJ	AK		BB	BD	BF	GA
11.811	11.811	9.843	-0.0020 -0.0038	0.197	13.780	0.709	0.669
300	*300*	*250*	*-0.050* *-0.096*	*5*	*350*	*18*	*17*

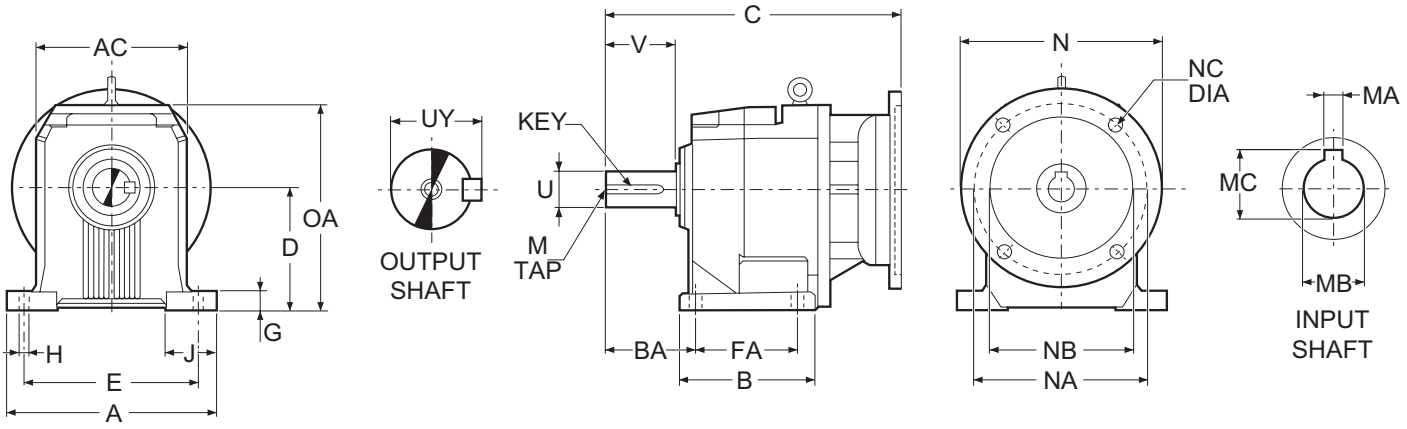
Output shaft (Inch series)

		U		UY	V	Key	M
C 70 2, C 70 3, C 70 4	**NF**	2.375	+0 -0.0007	2.646	4.724	5/8 x 5/8 x 3 5/8	3/4 - 10 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 70 2_S2 M2S	4.685	25.10	27.85	6.142	202 / *92*
C 70 3_S2 M2S	*119*	*637.5*	*707.5*	*156*	
C 70 2_S3 M3S	5.591	26.79	30.57	7.677	222 / *101*
C 70 3_S3 M3S	*142*	*680.5*	*776.5*	*195*	
C 70 2_S3 M3L	5.591	28.05	31.63	7.677	238 / *108*
C 70 3_S3 M3L	*142*	*712.5*	*803.5*	*195*	
C 70 2_S4 M4S	7.598	32.30	36.59	10.157	295 / *134*
C 70 3_S4 M4S	*193*	*820.5*	*929.5*	*258*	
C 70 2_S4 M4L	7.598	32.30	36.59	10.157	337 / *153*
C 70 3_S4 M4L	*193*	*820.5*	*929.5*	*258*	
C 70 2_S4 M4LC	7.598	33.68	37.58	10.157	354 / *161*
C 70 3_S4 M4LC	*193*	*855.5*	*954.5*	*258*	
C 70 2_S5 M5S	9.646	35.71	41.22	12.205	425 / *193*
C 70 3_S5 M5S	*245*	*907*	*1047*	*310*	
C 70 2_S5 M5L	9.646	37.44	42.95	12.205	460 / *209*
C 70 3_S5 M5L	*245*	*951*	*1091*	*310*	
C 70 4_S1 M1	4.252	25.97	28.37	5.433	202 / *91*
	108	*659.5*	*720.5*	*138*	
C 70 4_S2 M2S	4.685	27.11	29.86	6.142	211 / *96*
	119	*688.5*	*758.5*	*156*	
C 70 4_S3 M3S	5.591	28.80	32.58	7.677	229 / *104*
	142	*731.5*	*827.5*	*195*	
C 70 4_S3 M3L	5.591	30.06	33.64	7.677	244 / *111*
	142	*763.5*	*854.5*	*195*	
C 70 4_S4 M4S	7.598	34.31	38.60	10.157	301 / *137*
	193	*871.5*	*980.5*	*258*	
C 70 4_S4 M4L	7.598	34.31	38.60	10.157	343 / *156*
	193	*871.5*	*980.5*	*258*	

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	D	E	FA	G	H	J	OA
C 70 2, C 70 3, C 70 4	13.780	10.315	8.740	5.709	8.268	11.811	6.496	1.181	0.866	3.346	13.740
	350	*262*	*222*	*145*	*210*	*300*	*165*	*30*	*22*	*85*	*349*

Output shaft (Inch series)

		U	UY	V	Key	M
C 70 2, C 70 3, C 70 4	**NP**	2.375 $^{+0}_{-0.0007}$	2.646	4.724	5/8 x 5/8 x 3 5/8	3/4 - 10 UNC

NEMA Flange

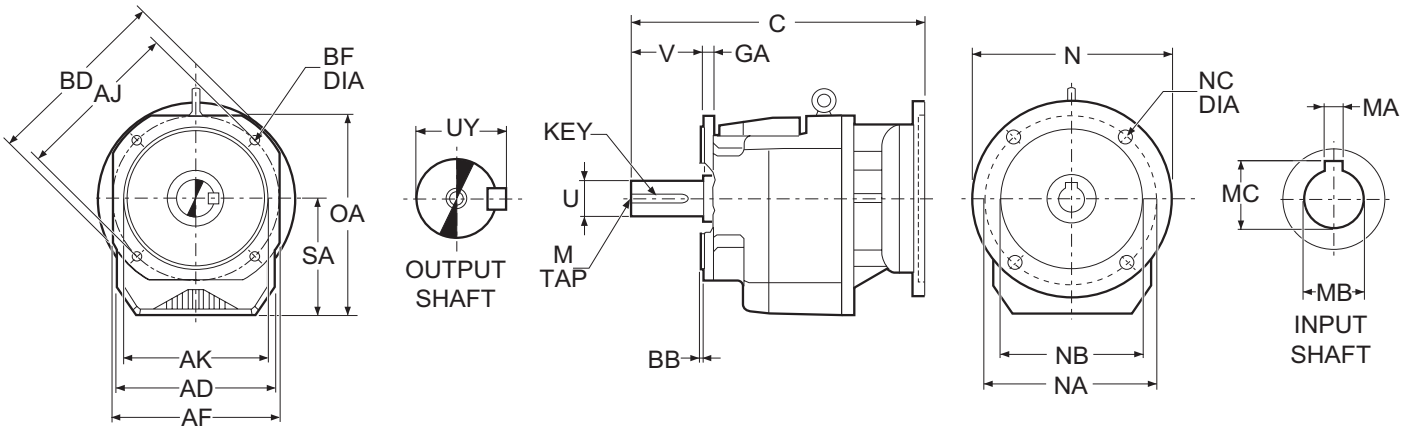
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	201 / *91*
N140TC	6.496	5.875	4.500	0.394	203 / *92*
N180TC	8.996	7.250	8.500	0.551	212 / *96*
N210TC	8.996	7.250	8.500	0.551	216 / *98*
N250TC	13.780	7.250	8.500	0.551	236 / *107*
N280TC	13.780	9.000	10.500	0.551	236 / *107*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518
N250TC	0.375	1.625	1.796
N280TC	0.500	1.875	2.102

	C					
	N56C	**N140TC**	**N180TC**	**N210TC**	**N250TC**	**N280TC**
C 70 2	18.64	18.64	19.17	20.63	23.62	23.82
	473.5	*473.5*	*487*	*524*	*600*	*605*
C 70 3	18.64	18.64	19.17	20.63	23.62	23.82
	473.5	*473.5*	*487*	*524*	*600*	*605*
C 70 4	20.65	20.65	21.18	22.64	—	—
	524.5	524.5	538	575		

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	AD	SA	OA
C 70 2, C 70 3, C 70 4	10.315	8.189	14.094
	262	*208*	*358*

Flange

AF	AJ	AK		BB	BD	BF	GA
11.811	11.811	9.843	-0.0020 -0.0038	0.197	13.780	0.709	0.669
300	*300*	*250*	*-0.050* *-0.096*	*5*	*350*	*18*	*17*

Output shaft (Inch series)

		U	UY	V	Key	M
C 70 2, C 70 3, C 70 4	**NF**	2.375 +0 -0.0007	2.646	4.724	5/8 x 5/8 x 3 5/8	3/4 - 10 UNC

NEMA Flange

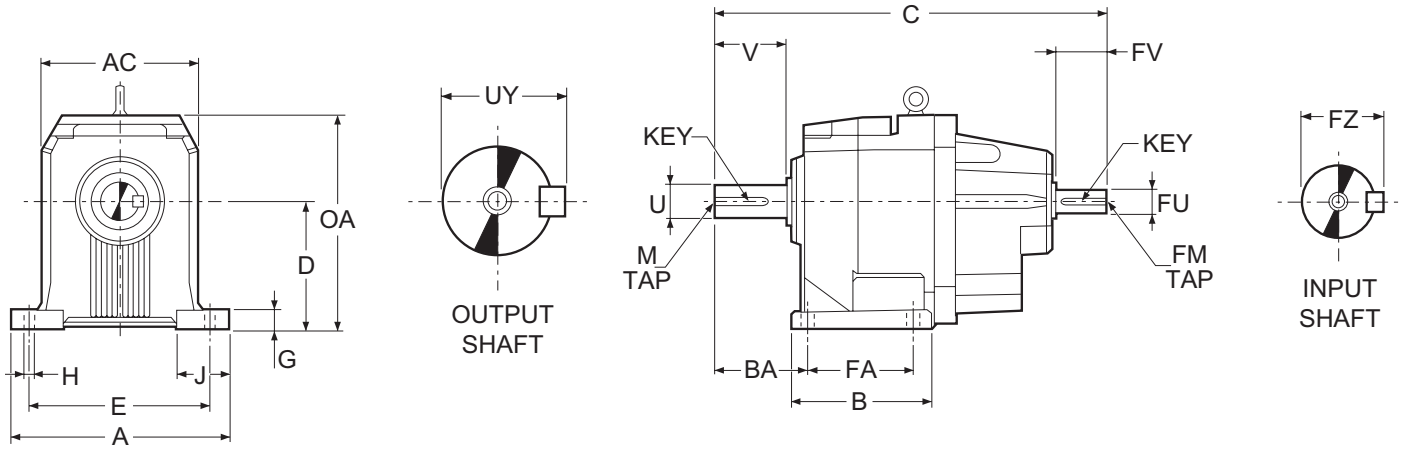
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	201 / *91*
N140TC	6.496	5.875	4.500	0.394	203 / *92*
N180TC	8.996	7.250	8.500	0.551	212 / *96*
N210TC	8.996	7.250	8.500	0.551	216 / *98*
N250TC	13.780	7.250	8.500	0.551	236 / *107*
N280TC	13.780	9.000	10.500	0.551	236 / *107*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518
N250TC	0.375	1.625	1.796
N280TC	0.500	1.875	2.102

	C					
	N56C	**N140TC**	**N180TC**	**N210TC**	**N250TC**	**N280TC**
C 70 2	18.64 *473.5*	18.64 *473.5*	19.17 *487*	20.63 *524*	23.62 *600*	23.82 *605*
C 70 3	18.64 *473.5*	18.64 *473.5*	19.17 *487*	20.63 *524*	23.62 *600*	23.82 *605*
C 70 4	20.65 524.5	20.65 524.5	21.18 538	22.64 575	—	—

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	C	D	E	FA	G	H	J	OA
C 70 2, C70 3	13.780	10.315	8.740	5.709	25.81	8.268	11.811	6.496	1.181	0.866	3.346	13.740
	350	*262*	*222*	*145*	*655.5*	*210*	*300*	*165*	*30*	*22*	*85*	*349*
C 70 4	13.780	10.315	8.740	5.709	23.37	8.268	11.811	6.496	1.181	0.866	3.346	13.740
	350	*262*	*222*	*145*	*593.5*	*210*	*300*	*165*	*30*	*22*	*85*	*349*

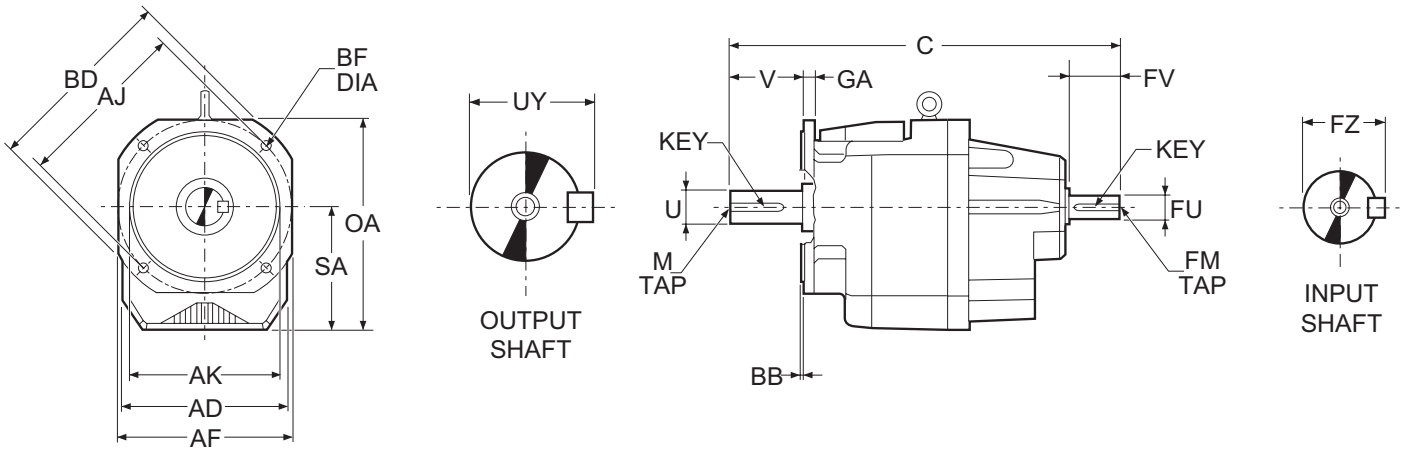
Output shaft (Inch series)

		U	UY	V	Key	M
C 70 2, C 70 3, C 70 4	**NP**	2.375 $^{+0}_{-0.0007}$	2.646	4.724	5/8 x 5/8 x 3 5/8	3/4 - 10 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 70 2, C 70 3	**NHS**	1.625 $^{+0}_{-0.0006}$	1.791	4.250	3/8 x 3/8 x 4	5/8 - 11 UNC	238 / *106*
C 70 4	**NHS**	1.000 $^{+0}_{-0.0005}$	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	207 / *94*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	AD	C	SA	OA
C 70 2, C 70 3	10.315	25.81	8.189	14.094
	262	*655.5*	*208*	*358*
C 70 4	10.315	23.37	8.189	14.094
	262	*593.5*	*208*	*358*

Flange

AF	AJ	AK		BB	BD	BF	GA
11.811	11.811	9.843	-0.0020 -0.0038	0.197	13.780	0.709	0.669
300	*300*	*250*	*-0.050* *-0.096*	*5*	*350*	*18*	*17*
11.811	11.811	9.843	-0.0020 -0.0038	0.197	13.780	0.709	0.669
300	*300*	*250*	*-0.050* *-0.096*	*5*	*350*	*18*	*17*

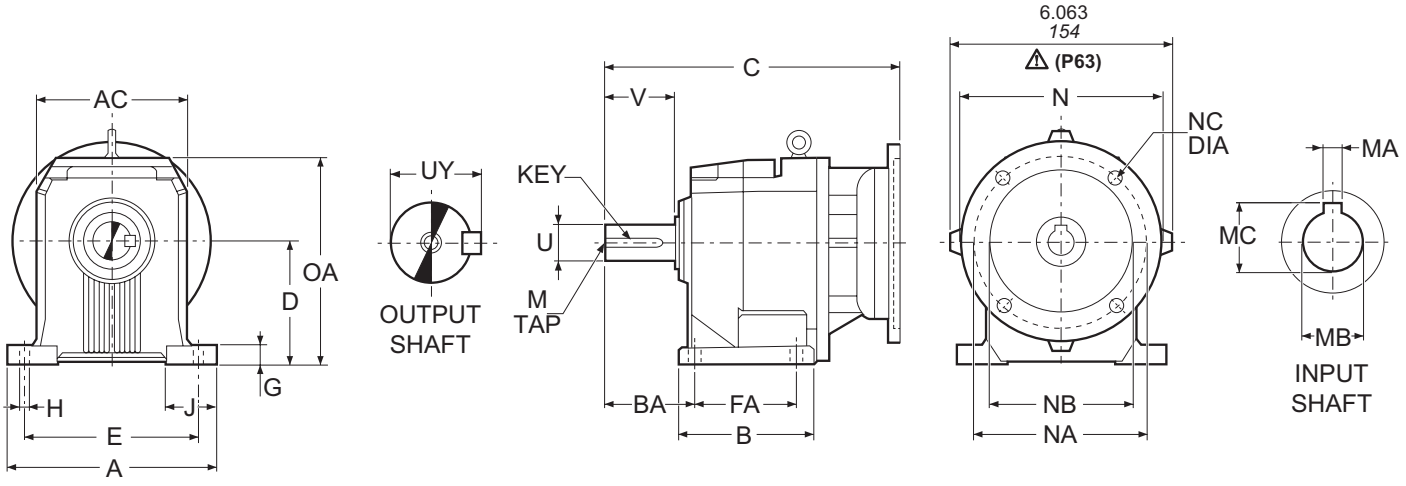
Output shaft (Inch series)

		U	UY	V	Key	M
C 70 2, C 70 3, C 70 4	**NF**	2.375 +0 -0.0007	2.646	4.724	5/8 x 5/8 x 3 5/8	3/4 - 10 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 70 2, C 70 3	**NHS**	1.625 +0 -0.0006	1.791	4.250	3/8 x 3/8 x 4	5/8 - 11 UNC	238 / *106*
C 70 4	**NHS**	1.000 +0 -0.0005	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	207 / *94*

Dimensions are inch / *mm*



Gearcase

	A	AC	B	BA	D	E	FA	G	H	J	OA
C 70 2, C 70 3, C 70 4	13.780	10.315	8.740	5.709	8.268	11.811	6.496	1.181	0.866	3.346	13.740
	350	*262*	*222*	*145*	*210*	*300*	*165*	*30*	*22*	*85*	*349*

Output shaft (Inch series)

		U	UY	V	Key	M
C 70 2, C 70 3, C 70 4	**NP**	2.375 $^{+0}_{-0.0007}$	2.646	4.724	5/8 x 5/8 x 3 5/8	3/4 - 10 UNC

IEC Flange

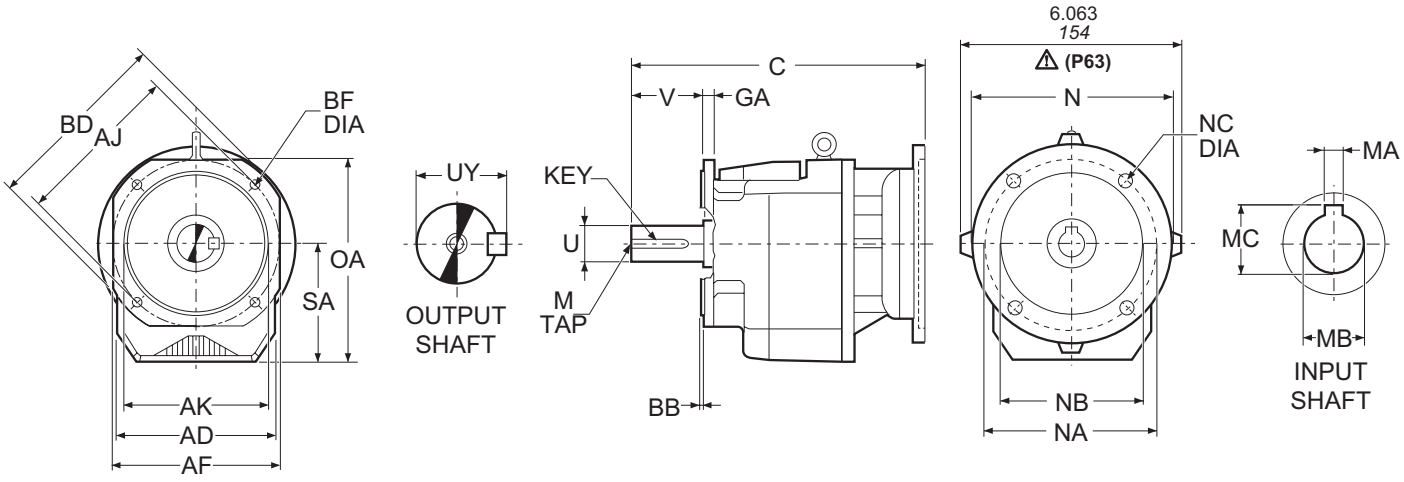
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	200 / *91*
P71	*160*	*130*	*110*	*M8x16*	200 / *91*
P80, P90	*200*	*165*	*130*	*M10x12*	202 / *92*
P100, P112	*250*	*215*	*180*	*M12x16*	211 / *96*
P132	*300*	*265*	*230*	*14*	216 / *98*
P160, P180	*350*	*300*	*250*	*18*	235 / *107*
P200	*400*	*350*	*300*	*M16x25*	284 / *129*

Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*
P132	*10*	*38*	*41.3*
P160	*12*	*42*	*45.3*
P180	*14*	*48*	*51.8*
P200	*16*	*55*	*59.3*

	C					
	P63 P71	**P80 P90**	**P100 P112**	**P132**	**P160 P180**	**P200**
C 70 2, C 70 3	—	18.62	19.02	20.45	22.64	23.62
		473	*483*	*519.5*	*575*	*600*
C 70 4	19.86	20.63	21.02	22.46	—	—
	504.5	*524*	*534*	*570.5*		

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	AD	SA	OA
C 70 2, C 70 3, C 70 4	10.315	8.189	14.094
	262	*208*	*358*

Flange

AF	AJ	AK		BB	BD	BF	GA
11.811	11.811	9.843	-0.0020 -0.0038	0.197	13.780	0.709	0.669
300	*300*	*250*	*-0.050 -0.096*	*5*	*350*	*18*	*17*

Output shaft (Inch series)

		U	UY	V	Key	M
C 70 2, C 70 3, C 70 4	**NF**	2.375 +0 -0.0007	2.646	4.724	5/8 x 5/8 x 3 5/8	3/4 - 10 UNC

IEC Flange

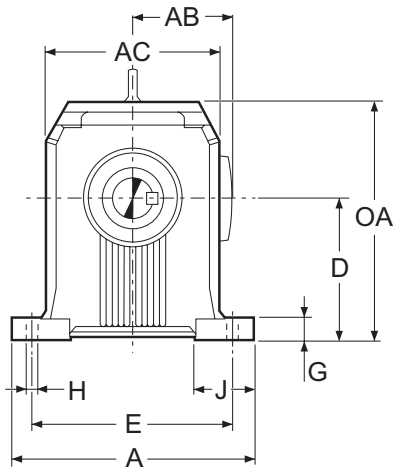
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	200 / *91*
P71	*160*	*130*	*110*	*M8x16*	200 / *91*
P80, P90	*200*	*165*	*130*	*M10x12*	202 / *92*
P100, P112	*250*	*215*	*180*	*M12x16*	211 / *96*
P132	*300*	*265*	*230*	*14*	216 / *98*
P160, P180	*350*	*300*	*250*	*18*	235 / *107*
P200	*400*	*350*	*300*	*M16x25*	284 / *129*

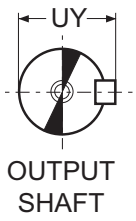
Hollow input shaft

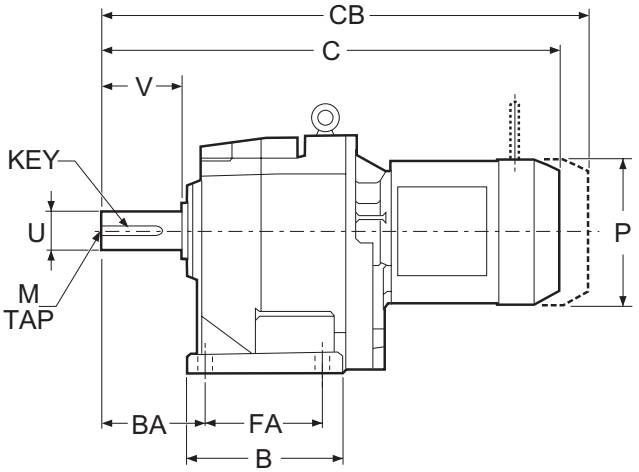
	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*
P132	*10*	*38*	*41.3*
P160	*12*	*42*	*45.3*
P180	*14*	*48*	*51.8*
P200	*16*	*55*	*59.3*

	C					
	P63 P71	**P80 P90**	**P100 P112**	**P132**	**P160 P180**	**P200**
C 70 2, C 70 3	—	18.62	19.02	20.45	22.64	23.62
		473	*483*	*519.5*	*575*	*600*
C 70 4	19.86	20.63	21.02	22.46	—	—
	504.5	*524*	*534*	*570.5*		

Dimensions are $\frac{\text{inch}}{mm}$







Gearcase

	A	AC	B	BA	D	E	FA	G	H	J	OA
C 80 2, C 80 3, C 80 4	17.323	12.598	10.906	6.811	9.843	14.567	8.268	1.378	1.024	4.331	16.535
	440	*320*	*277*	*173*	*250*	*370*	*210*	*35*	*26*	*110*	*420*

Output shaft (Inch series)

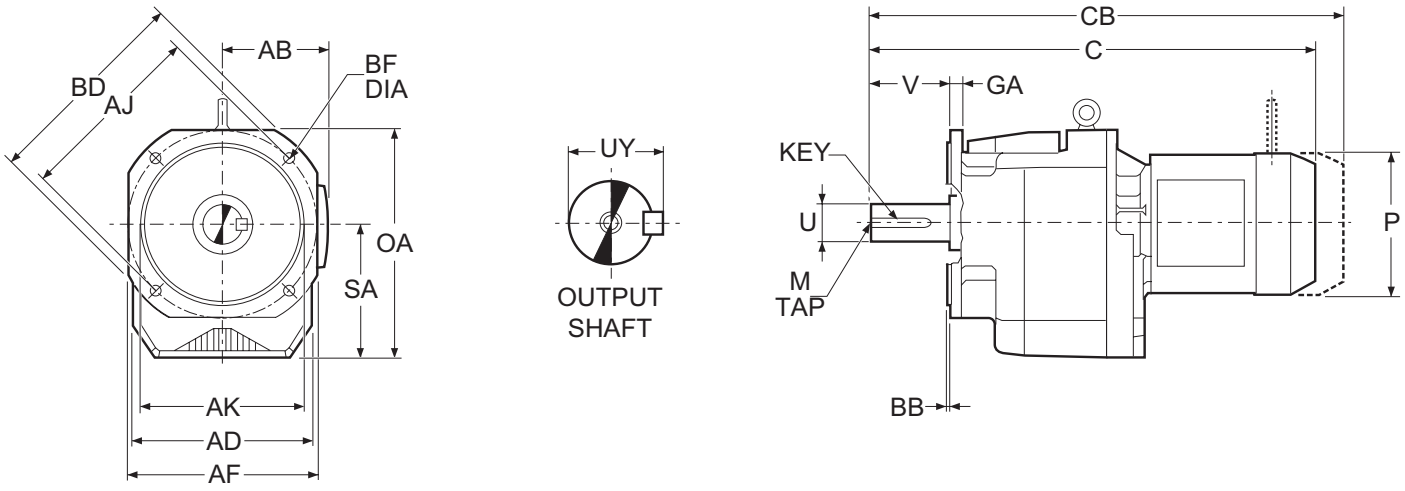
		U		UY	V	Key	M
C 80 2, C 80 3, C 80 4	**NP**	3.125	$^{+0}_{-0.0007}$	3.454	5.512	3/4 x 3/4 x 4 5/32	3/4 - 10 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 80 2_S3 M3S	5.591	29.23	33.01	7.677	321 / *146*
C 80 3_S3 M3S	*142*	*742.5*	*838.5*	*195*	
C 80 2_S3 M3L	5.591	30.49	34.08	7.677	337 / *153*
C 80 3_S3 M3L	*142*	*774.5*	*865.5*	*195*	
C 80 2_S4 M4S	7.598	34.74	39.04	10.157	392 / *178*
C 80 3_S4 M4S	*193*	*882.5*	*991.5*	*258*	
C 80 2_S4 M4L	7.598	34.74	39.04	10.157	431 / *196*
C 80 3_S4 M4L	*193*	*882.5*	*991.5*	*258*	
C 80 2_S4 M4LC	7.598	36.12	40.02	10.157	449 / *204*
C 80 3_S4 M4LC	*193*	*917.5*	*1017*	*258*	
C 80 2_S5 M5S	9.646	38.15	43.66	12.205	524 / *238*
C 80 3_S5 M5S	*245*	*969*	*1109*	*310*	
C 80 2_S5 M5L	9.646	39.88	45.39	12.205	559 / *254*
C 80 3_S5 M5L	*245*	*1013*	*1153*	*310*	
C 80 4_S1 M1	4.252	28.88	31.28	5.433	299 / *136*
	108	*733.5*	*794.5*	*138*	
C 80 4_S2 M2S	4.685	30.02	32.78	6.142	310 / *141*
	119	*762.5*	*832.5*	*156*	
C 80 4_S3 M3S	5.591	31.71	35.49	7.677	328 / *149*
	142	*805.5*	*901.5*	*195*	
C 80 4_S3 M3L	5.591	32.97	36.56	7.677	343 / *156*
	142	*837.5*	*928.5*	*195*	
C 80 4_S4 M4S	7.598	37.22	41.52	10.157	400 / *182*
	193	*945.5*	*1055*	*258*	
C 80 4_S4 M4L	7.598	37.22	41.52	10.157	442 / *201*
	193	*945.5*	*1055*	*258*	

Dimensions are $\frac{\text{inch}}{mm}$

Flange mounted, integral motor C 80 2 C 80 3 C 80 4



Gearcase

	AD	SA	OA
C 80 2, C 80 3, C 80 4	12.598 *320*	9.724 *247*	16.614 *422*

Flange

AF	AJ	AK		BB	BD	BF	GA
13.780 *350*	13.780 *350*	11.811 *300*	-0.0022 -0.0042 *-0.056* *-0.108*	0.197 *5*	15.748 *400*	0.709 *18*	0.787 *20*

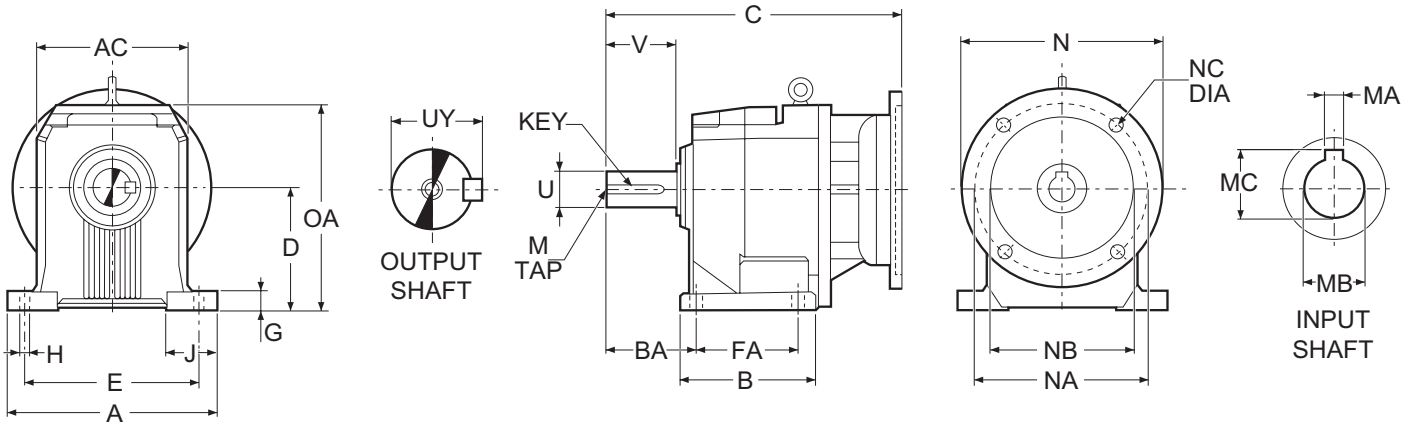
Output shaft (Inch series)

		U	UY	V	Key	M
C 80 2, C 80 3, C 80 4	**NF**	3.125 $^{+0}_{-0.0007}$	3.454	5.512	3/4 x 3/4 x 4 5/32	3/4 - 10 UNC

Motor

	AB	C	CB	P	Weight [lbs / *kg*]
C 80 2_S3 M3S **C 80 3_S3 M3S**	5.591 *142*	29.23 *742.5*	33.01 *838.5*	7.677 *195*	321 / *146*
C 80 2_S3 M3L **C 80 3_S3 M3L**	5.591 *142*	30.49 *774.5*	34.08 *865.5*	7.677 *195*	337 / *153*
C 80 2_S4 M4S **C 80 3_S4 M4S**	7.598 *193*	37.74 *882.5*	39.04 *991.5*	10.157 *258*	392 / *178*
C 80 2_S4 M4L **C 80 3_S4 M4L**	7.598 *193*	34.74 *882.5*	39.04 *991.5*	10.157 *258*	431 / *196*
C 80 2_S4 M4LC **C 80 3_S4 M4LC**	7.598 *193*	36.12 *917.5*	40.02 *1017*	10.157 *258*	449 / *204*
C 80 2_S5 M5S **C 80 3_S5 M5S**	9.646 *245*	38.15 *969*	43.66 *1109*	12.205 *310*	524 / *238*
C 80 2_S5 M5L **C 80 3_S5 M5L**	9.646 *245*	39.88 *1013*	45.39 *1153*	12.205 *310*	559 / *254*
C 80 4_S1 M1	4.252 *108*	28.88 *733.5*	31.28 *794.5*	5.433 *138*	299 / *136*
C 80 4_S2 M2S	4.685 *119*	30.02 *762.5*	32.78 *832.5*	6.142 *156*	310 / *141*
C 80 4_S3 M3S	5.591 *142*	31.71 *805.5*	35.49 *901.5*	7.677 *195*	328 / *149*
C 80 4_S3 M3L	5.591 *142*	32.97 *837.5*	36.56 *928.5*	7.677 *195*	343 / *156*
C 80 4_S4 M4S	7.598 *193*	37.22 *945.5*	41.52 *1055*	10.157 *258*	400 / *182*
C 80 4_S4 M4L	7.598 *193*	37.22 *945.5*	41.52 *1055*	10.157 *258*	442 / *201*

Dimensions are inch / *mm*



Gearcase

	A	AC	B	BA	D	E	FA	G	H	J	OA
C 80 2, C 80 3, C 80 4	17.323	12.598	10.906	6.811	9.843	14.567	8.268	1.378	1.024	4.331	16.535
	440	*320*	*277*	*173*	*250*	*370*	*210*	*35*	*26*	*110*	*420*

Output shaft (Inch series)

		U	UY	V	Key	M
C 80 2, C 80 3, C 80 4	**NP**	3.125 $^{+0}_{-0.0007}$	3.454	5.512	3/4 x 3/4 x 4 5/32	3/4 - 10 UNC

NEMA Flange

	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	304 / *138*
N140TC	6.496	5.875	4.500	0.394	309 / *140*
N180TC	8.996	7.250	8.500	0.551	318 / *144*
N210TC	8.996	7.250	8.500	0.551	322 / *146*
N250TC	13.780	7.250	8.500	0.551	340 / *154*
N280TC	13.780	9.000	10.500	0.551	340 / *154*
N320TC	17.717	11.000	12.500	0.669	388 / *176*

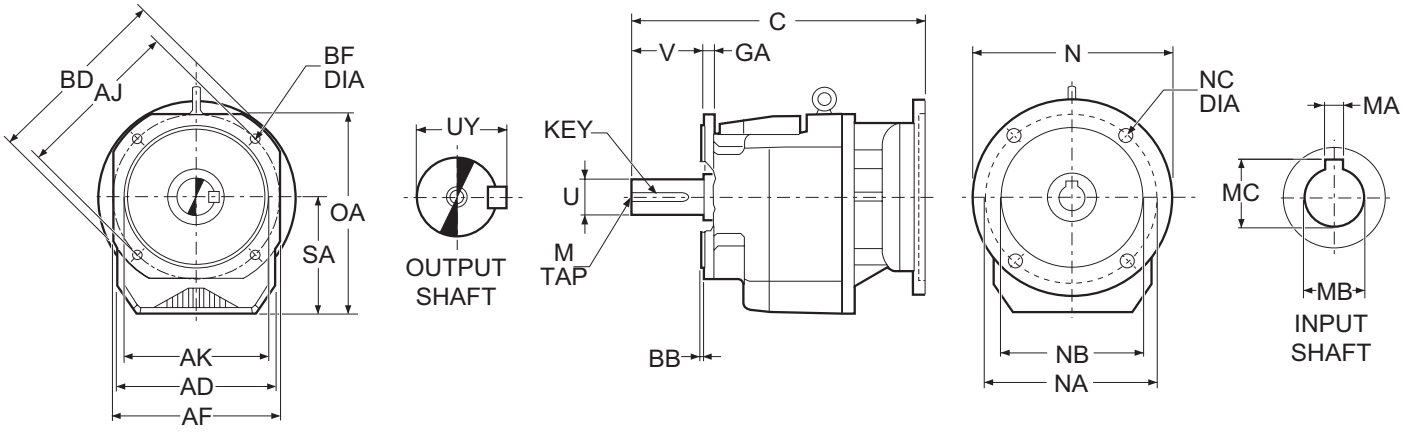
Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518
N250TC	0.375	1.625	1.796
N280TC	0.500	1.875	2.102
N320TC	0.500	2.125	2.350

	C						
	N56C	**N140TC**	**N180TC**	**N210TC**	**N250TC**	**N280TC**	**N320TC**
C 80 2	—	—	21.58	23.03	25.98	26.18	29.04
			548	*585*	*660*	*665*	*737.5*
C 80 3	—	—	21.58	23.03	25.98	26.18	29.04
			548	*585*	*660*	*665*	*737.5*
C 80 4	22.74	22.74	24.056	25.30	—	—	—
	577.5	*577.5*	*611*	*642.5*			

Dimensions are $\frac{\text{inch}}{mm}$

Flange mounted, NEMA input C 80 2 C 80 3 C 80 4



Gearcase

	AD	SA	OA
C 80 2, C 80 3, C 80 4	12.598	9.724	16.614
	320	*247*	*422*

Flange

AF	AJ	AK		BB	BD	BF	GA
13.780	13.780	11.811	-0.0022 -0.0042	0.197	15.748	0.709	0.787
350	*350*	*300*	*-0.056* *-0.108*	*5*	*400*	*18*	*20*

Output shaft (Inch series)

		U	UY	V	Key	M
C 80 2, C 80 3, C 80 4	**NF**	3.125 $^{+0}_{-0.0007}$	3.454	5.512	3/4 x 3/4 x 4 5/32	3/4 - 10 UNC

NEMA Flange

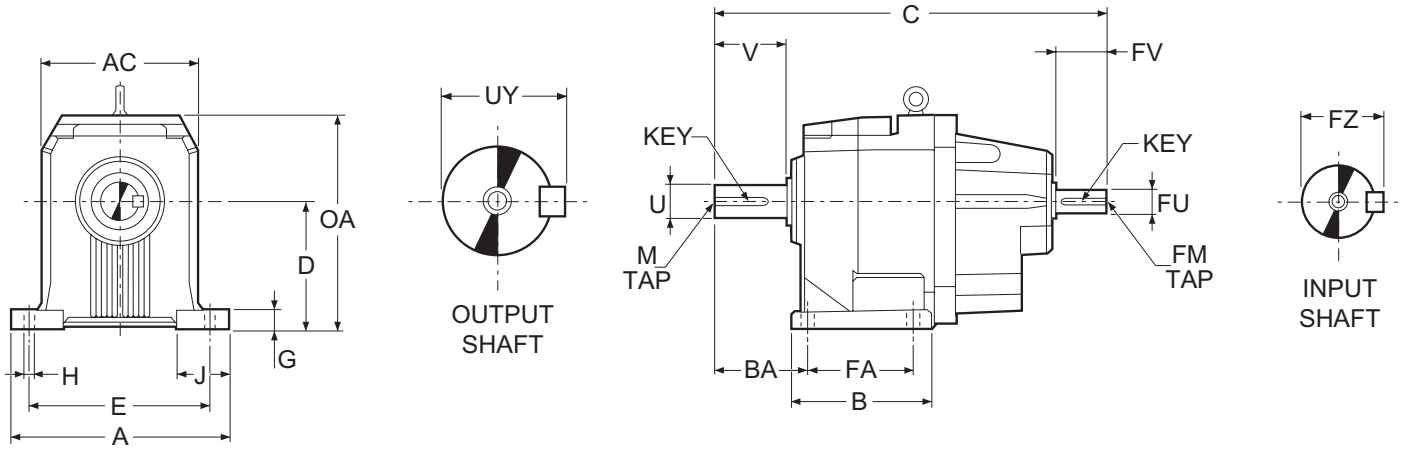
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	304 / *138*
N140TC	6.496	5.875	4.500	0.394	309 / *140*
N180TC	8.996	7.250	8.500	0.551	318 / *144*
N210TC	8.996	7.250	8.500	0.551	322 / *146*
N250TC	13.780	7.250	8.500	0.551	340 / *154*
N280TC	13.780	9.000	10.500	0.551	340 / *154*
N320TC	17.717	11.000	12.500	0.669	388 / *176*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518
N250TC	0.375	1.625	1.796
N280TC	0.500	1.875	2.102
N320TC	0.500	2.125	2.350

	C						
	N56C	**N140TC**	**N180TC**	**N210TC**	**N250TC**	**N280TC**	**N320TC**
C 80 2	—	—	21.58 *548*	23.03 *585*	25.98 *660*	26.18 *665*	29.04 *737.5*
C 80 3	—	—	21.58 *548*	23.03 *585*	25.98 *660*	26.18 *665*	29.04 *737.5*
C 80 4	22.74 *577.5*	22.74 *577.5*	24.056 *611*	25.30 *642.5*	—	—	—

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	C	D	E	FA	G	H	J	OA
C 80 2, C80 3	17.323	12.598	10.906	6.811	28.21	9.843	14.567	8.268	1.378	1.024	4.331	16.535
	440	*320*	*277*	*173*	*716.5*	*250*	*370*	*210*	*35*	*26*	*110*	*420*
C 80 4	17.323	12.598	10.906	6.811	26.24	9.843	14.567	8.268	1.378	1.024	4.331	16.535
	440	*320*	*277*	*173*	*666.5*	*250*	*370*	*210*	*35*	*26*	*110*	*420*

Output shaft (Inch series)

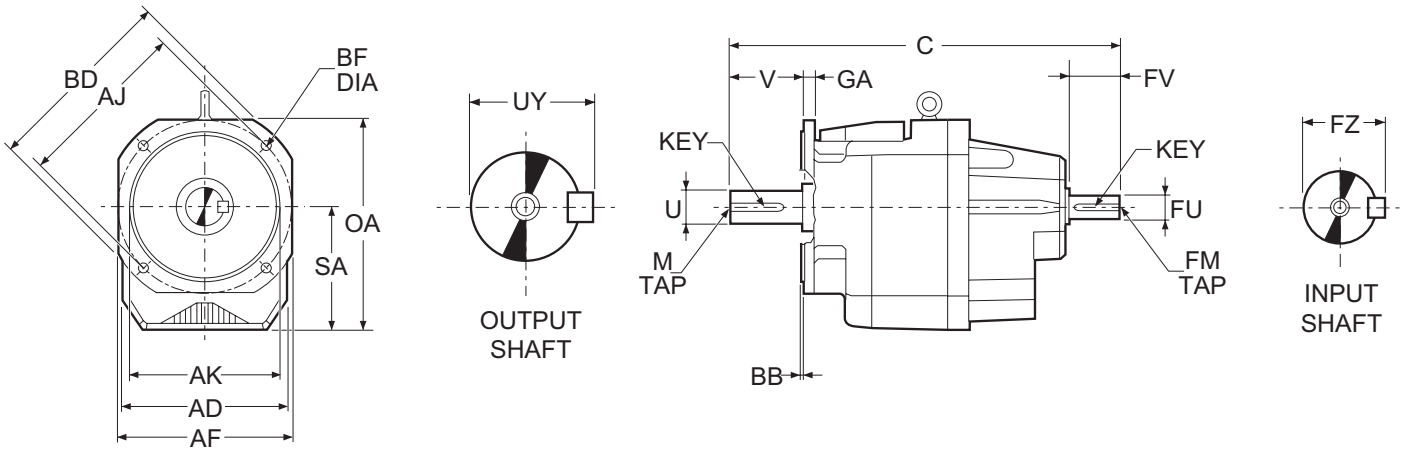
		U	UY	V	Key	M
C 80 2, C 80 3, C 80 4	**NP**	3.125 $^{+0}_{-0.0007}$	3.454	5.512	3/4 x 3/4 x 4 5/32	3/4 - 10 UNC

Input shaft (Inch series)

		FU	FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 80 2, C 80 3	**NHS**	1.625 $^{+0}_{-0.0006}$	1.791	4.250	3/8 x 3/8 x 4	5/8 - 11 UNC	339 / *154*
C 80 4	**NHS**	1.000 $^{+0}_{-0.0005}$	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	310 / *141*

Dimensions are $\frac{\text{inch}}{mm}$

Flange mounted, solid input shaft C 80 2 C 80 3 C 80 4



Gearcase

	AD	C	SA	OA
C 80 2, C 80 3	12.598	28.21	9.724	16.614
	320	*716.5*	*247*	*422*
C 80 4	12.598	26.24	9.724	16.614
	320	*666.5*	*247*	*422*

Flange

AF	AJ	AK		BB	BD	BF	GA
13.780	13.780	11.811	-0.0022 -0.0042	0.197	15.748	0.709	0.787
350	*350*	*300*	*-0.056* *-0.108*	*5*	*400*	*18*	*20*
13.780	13.780	11.811	-0.0022 -0.0042	0.197	15.748	0.709	0.787
350	*350*	*300*	*-0.056* *-0.108*	*5*	*400*	*18*	*20*

Output shaft (Inch series)

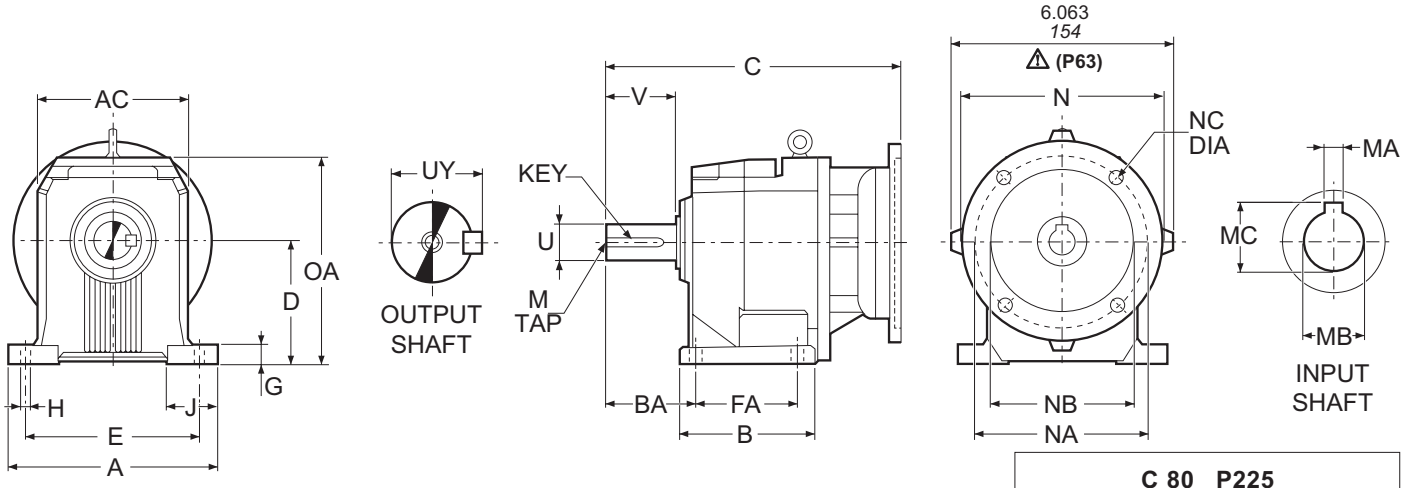
		U		UY	V	Key	M
C 80 2, C 80 3, C 80 4	**NF**	3.125	+0 -0.0007	3.454	5.512	3/4 x 3/4 x 4 5/32	3/4 - 10 UNC

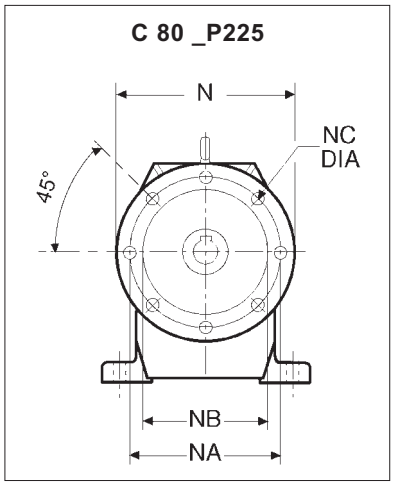
Input shaft (Inch series)

		FU		FZ	FV	Key	FM
C 80 2, C 80 3	**NHS**	1.625	+0 -0.0006	1.791	4.250	3/8 x 3/8 x 4	5/8 - 11 UNC
C 80 4	**NHS**	1.000	+0 -0.0005	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

Weight [lbs / *kg*]
339 / *154*
310 / *141*

Dimensions are inch / *mm*





	C						
	P63 P71	**P80 P90**	**P100 P112**	**P132**	**P160 P180**	**P200**	**P225**
C 80 2, C 80 3	—	20.98 *533*	21.38 *543*	22.82 *579.5*	25.00 *635*	25.98 *660*	27.78 *705.5*
C 80 4	22.70 *576.5*	23.47 *596*	23.86 *606*	25.30 *642.5*	—	—	—

Gearcase

	A	**AC**	**B**	**BA**	**D**	**E**	**FA**	**G**	**H**	**J**	**OA**
C 80 2, C 80 3, C 80 4	17.323 *440*	12.598 *320*	10.906 *277*	6.811 *173*	9.843 *250*	14.567 *370*	8.268 *210*	1.378 *35*	1.024 *26*	4.331 *110*	16.535 *420*

Output shaft (Inch series)

		U		**UY**	**V**	**Key**	**M**
C 80 2, C 80 3, C 80 4	**NP**	3.125	$^{+0}_{-0.0007}$	3.454	5.512	3/4 x 3/4 x 4 5/32	3/4 - 10 UNC

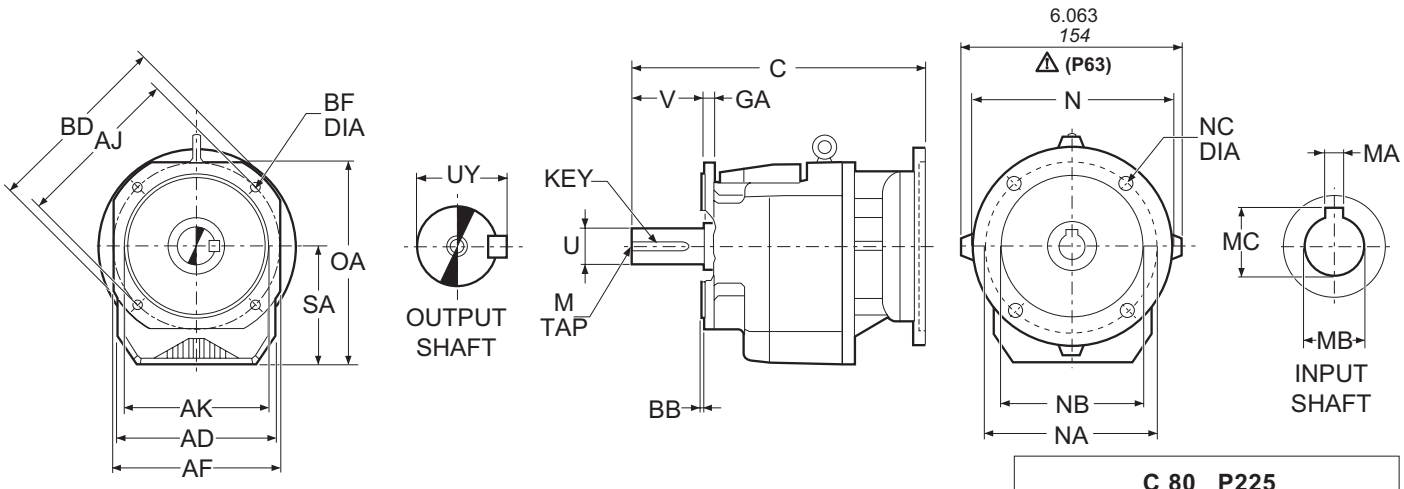
IEC Flange

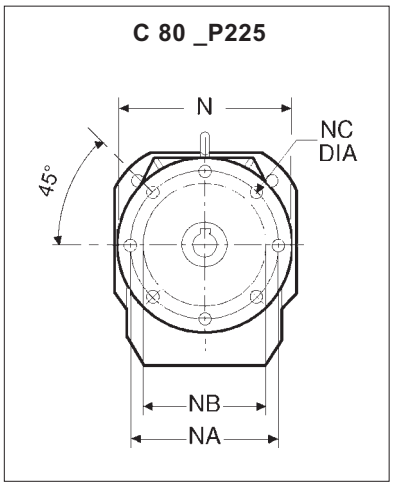
	N	**NA**	**NB**	**NC**	**Weight** [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	304 / *138*
P71	*160*	*130*	*110*	*M8x16*	304 / *138*
P80, P90	*200*	*165*	*130*	*M10x12*	308 / *140*
P100, P112	*250*	*215*	*180*	*M12x16*	317 / *144*
P132	*300*	*265*	*230*	*14*	321 / *146*
P160, P180	*350*	*300*	*250*	*18*	339 / *154*
P200	*400*	*350*	*300*	*M16x25*	387 / *176*
P225	*450*	*400*	*350*	*18*	392 / *178*

Hollow input shaft

	MA	**MB**	**MC**
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*
P132	*10*	*38*	*41.3*
P160	*12*	*42*	*45.3*
P180	*14*	*48*	*51.8*
P200	*16*	*55*	*59.3*
P225	*18*	*60*	*64.4*

Dimensions are $\frac{\text{inch}}{mm}$





	C						
	P63 P71	P80 P90	P100 P112	P132	P160 P180	P200	P225
C 80 2, C 80 3	—	20.98 *533*	21.38 *543*	22.82 *579.5*	25.00 *635*	25.98 *660*	27.78 *705.5*
C 80 4	22.70 *576.5*	23.47 *596*	23.86 *606*	25.30 *642.5*	—	—	—

Gearcase

	AD	SA	OA
C 80 2, C 80 3, C 80 4	12.598 *320*	9.724 *247*	16.614 *422*

Flange

AF	AJ	AK		BB	BD	BF	GA
13.780 *350*	13.780 *350*	11.811 *300*	-0.0022 -0.0042 *-0.056 -0.108*	0.197 *5*	15.748 *400*	0.709 *18*	0.787 *20*

Output shaft (Inch series)

	U	UY	V	Key	M
C 80 2, C 80 3, C 80 4 NF	3.125 +0 -0.0007	3.454	5.512	3/4 x 3/4 x 4 5/32	3/4 - 10 UNC

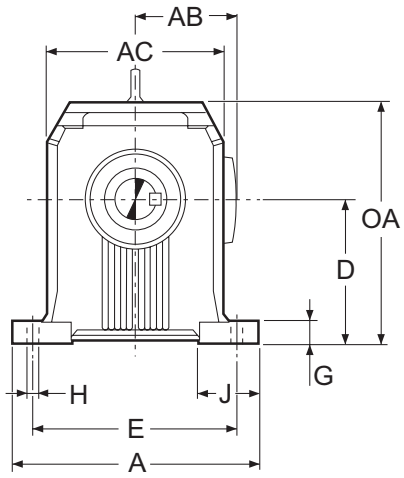
IEC Flange

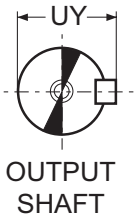
	N	NA	NB	NC	Weight [lbs / *kg*]
P63	*140*	*115*	*95*	*M8x19*	304 / *138*
P71	*160*	*130*	*110*	*M8x16*	304 / *138*
P80, P90	*200*	*165*	*130*	*M10x12*	308 / *140*
P100, P112	*250*	*215*	*180*	*M12x16*	317 / *144*
P132	*300*	*265*	*230*	*14*	321 / *146*
P160, P180	*350*	*300*	*250*	*18*	339 / *154*
P200	*400*	*350*	*300*	*M16x25*	387 / *176*
P225	*450*	*400*	*350*	*18*	392 / *178*

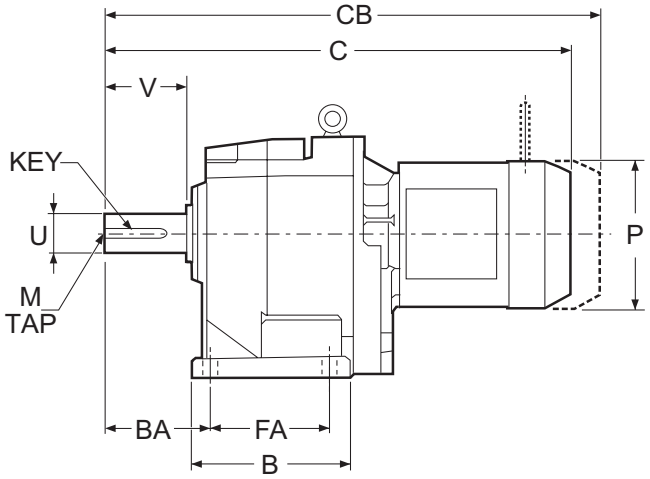
Hollow input shaft

	MA	MB	MC
P63	*4*	*11*	*12.8*
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*
P132	*10*	*38*	*41.3*
P160	*12*	*42*	*45.3*
P180	*14*	*48*	*51.8*
P200	*16*	*55*	*59.3*
P225	*18*	*60*	*64.4*

Dimensions are inch / *mm*







Gearcase

	A	AC	B	BA	D	E	FA	G	H	J	OA
C 90 2, C 90 3, C 90 4	20.472 *520*	14.764 *375*	13.346 *339*	8.268 *210*	11.811 *300*	17.323 *440*	9.843 *250*	1.575 *40*	1.299 *33*	5.512 *140*	19.488 *495*

Output shaft (Inch series)

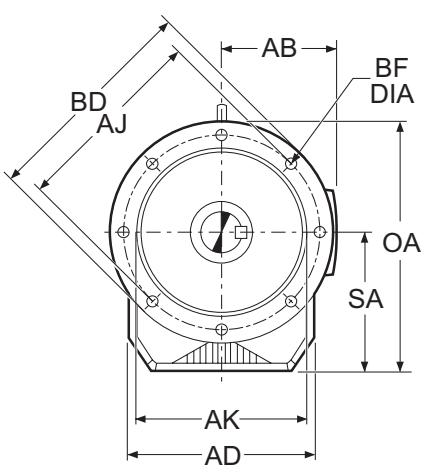
		U	UY	V	Key	M
C 90 2, C 90 3, C 90 4	**NP**	3.625 $^{+0}_{-0.0009}$	4.009	6.693	7/8 x 7/8 x 5 1/2	1 - 8 UNC

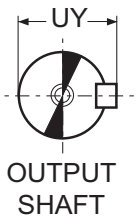
Motor

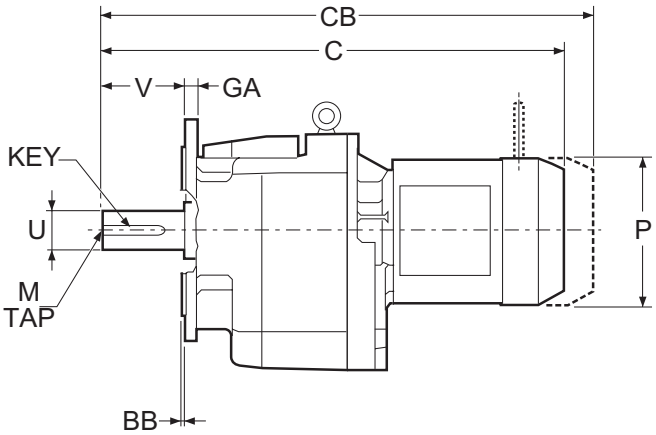
	AB	C	CB	P	**Weight** [lbs / *kg*]
C 90 2_S3 M3S **C 90 3_S3 M3S**	5.591 *142*	33.54 *852*	37.32 *948*	7.677 *195*	519 / *236*
C 90 2_S3 M3L **C 90 3_S3 M3L**	5.591 *142*	34.80 *884*	38.39 *975*	7.677 *195*	535 / *243*
C 90 2_S4 M4S **C 90 3_S4 M4S**	7.598 *193*	37.56 *954*	41.85 *1063*	10.157 *258*	592 / *269*
C 90 2_S4 M4L **C 90 3_S4 M4L**	7.598 *193*	40.43 *1027*	44.33 *1126*	10.157 *258*	634 / *288*
C 90 2_S4 M4LC **C 90 3_S4 M4LC**	7.598 *193*	40.43 *1027*	44.33 *1126*	10.157 *258*	651 / *296*
C 90 2_S5 M5S **C 90 3_S5 M5S**	9.646 *245*	42.46 *1079*	47.97 *1219*	12.205 *310*	722 / *328*
C 90 2_S5 M5L **C 90 3_S5 M5L**	9.646 *245*	44.19 *1123*	49.71 *1263*	12.205 *310*	757 / *344*
C 90 4_S2 M2S	4.685 *119*	35.12 *892*	37.87 *962*	6.142 *156*	524 / *238*
C 90 4_S3 M3S	5.591 *142*	36.81 *935*	40.59 *1031*	7.677 *195*	541 / *246*
C 90 4_S3 M3L	5.591 *142*	38.07 *967*	41.65 *1058*	7.677 *195*	557 / *253*
C 90 4_S4 M4S	7.598 *193*	42.32 *1075*	46.61 *1184*	10.157 *258*	614 / *279*
C 90 4_S4 M4L	7.598 *193*	42.32 *1075*	46.61 *1184*	10.157 *258*	656 / *298*

Dimensions are $\frac{\text{inch}}{mm}$

Flange mounted, integral motor C 90 2 C 90 3 C 90 4







Gearcase

	AD	SA	OA
C 90 2, C 90 3, C 90 4	14.764 *375*	11.614 *295*	20.472 *520*

Flange

AJ	AK		BB	BD	BF	GA
15.748 *400*	13.780 *350*	-0.0024 -0.0047 -0.062 -0.119	0.197 *5*	17.717 *450*	0.709 *18*	0.866 *22*

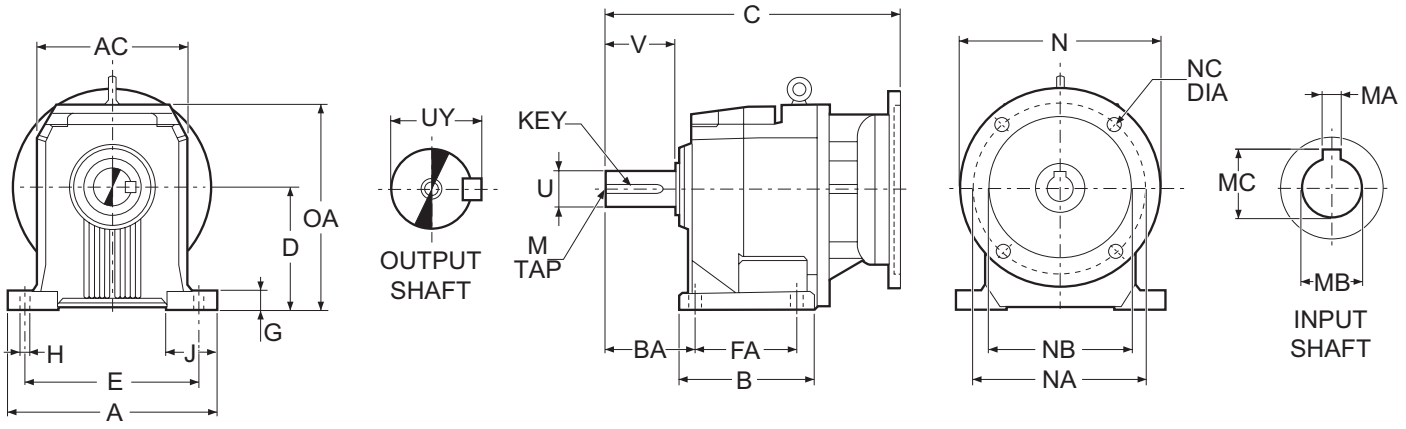
Output shaft (Inch series)

		U	UY	V	Key	M
C 90 2, C 90 3, C 90 4	**NF**	3.625 +0 -0.0009	4.009	6.693	7/8 x 7/8 x 5 1/2	1 - 8 UNC

Motor

	AB	C	CB	P	Weight [lbs / *kg*]
C 90 2_S3 M3S **C 90 3_S3 M3S**	5.591 *142*	33.54 *852*	37.32 *948*	7.677 *195*	519 / *236*
C 90 2_S3 M3L **C 90 3_S3 M3L**	5.591 *142*	34.80 *884*	38.39 *975*	7.677 *195*	535 / *243*
C 90 2_S4 M4S **C 90 3_S4 M4S**	7.598 *193*	39.06 *992*	43.35 *1101*	10.157 *258*	592 / *269*
C 90 2_S4 M4L **C 90 3_S4 M4L**	7.598 *193*	39.06 *992*	43.35 *1101*	10.157 *258*	634 / *288*
C 90 2_S4 M4LC **C 90 3_S4 M4LC**	7.598 *193*	40.43 *1027*	44.33 *1126*	10.157 *258*	651 / *296*
C 90 2_S5 M5S **C 90 3_S5 M5S**	9.646 *245*	42.46 *1079*	47.97 *1219*	12.205 *310*	722 / *328*
C 90 2_S5 M5L **C 90 3_S5 M5L**	9.646 *245*	44.19 *1123*	49.71 *1263*	12.205 *310*	757 / *344*
C 90 4_S2 M2S	4.685 *119*	35.12 *892*	37.87 *962*	6.142 *156*	524 / *238*
C 90 4_S3 M3S	5.591 *142*	36.81 *935*	40.59 *1031*	7.677 *195*	541 / *246*
C 90 4_S3 M3L	5.591 *142*	38.07 *967*	41.65 *1058*	7.677 *195*	557 / *253*
C 90 4_S4 M4S	7.598 *193*	42.32 *1075*	46.61 *1184*	10.157 *258*	614 / *279*
C 90 4_S4 M4L	7.598 *193*	42.32 *1075*	46.61 *1184*	10.157 *258*	656 / *298*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	D	E	FA	G	H	J	OA
C 90 2, C 90 3, C 90 4	20.472 *520*	14.764 *375*	13.346 *339*	8.268 *210*	11.811 *300*	17.323 *440*	9.843 *250*	1.575 *40*	1.299 *33*	5.512 *140*	19.488 *495*

Output shaft (Inch series)

		U	UY	V	Key	M
C 90 2, C 90 3, C 90 4	**NP**	3.625 $^{+0}_{-0.0009}$	4.009	6.693	7/8 x 7/8 x 5 1/2	1 - 8 UNC

NEMA Flange

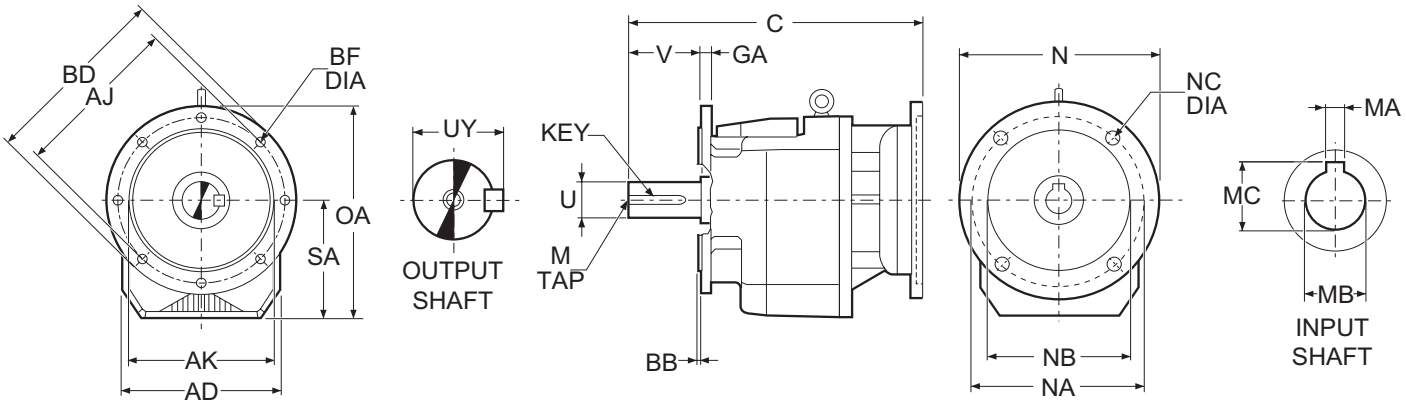
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	520 / *236*
N140TC	6.496	5.875	4.500	0.394	525 / *238*
N180TC	8.996	7.250	8.500	0.551	534 / *242*
N210TC	8.996	7.250	8.500	0.551	538 / *244*
N250TC	13.780	7.250	8.500	0.551	547 / *248*
N280TC	13.780	9.000	10.500	0.551	547 / *248*
N320TC	17.717	11.000	12.500	0.669	600 / *272*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518
N250TC	0.375	1.625	1.796
N280TC	0.500	1.875	2.102
N320TC	0.500	2.125	2.350

	C						
	N56C	**N140TC**	**N180TC**	**N210TC**	**N250TC**	**N280TC**	**N320TC**
C 90 2	—	—	25.93 *658.5*	27.38 *695.5*	30.37 *771.5*	30.57 *776.5*	33.43 *849*
C 90 3	—	—	25.93 *658.5*	27.38 *695.5*	30.37 *771.5*	30.57 *776.5*	33.43 *849*
C 90 4	28.66 *728*	28.66 *728*	29.19 *741.5*	30.65 *778.5*	33.45 *849.5*	33.64 *854.5*	—

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	AD	SA	OA
C 90 2, C 90 3, C 90 4	14.764	11.614	20.472
	375	*295*	*520*

Flange

AJ	AK		BB	BD	BF	GA
15.748	13.780	-0.0024 -0.0047	0.197	17.717	0.709	0.866
400	*350*	-0.062 -0.119	*5*	*450*	*18*	*22*

Output shaft (Inch series)

		U	UY	V	Key	M
C 90 2, C 90 3, C 90 4	**NF**	3.625 $^{+0}_{-0.0009}$	4.009	6.693	7/8 x 7/8 x 5 1/2	1 - 8 UNC

NEMA Flange

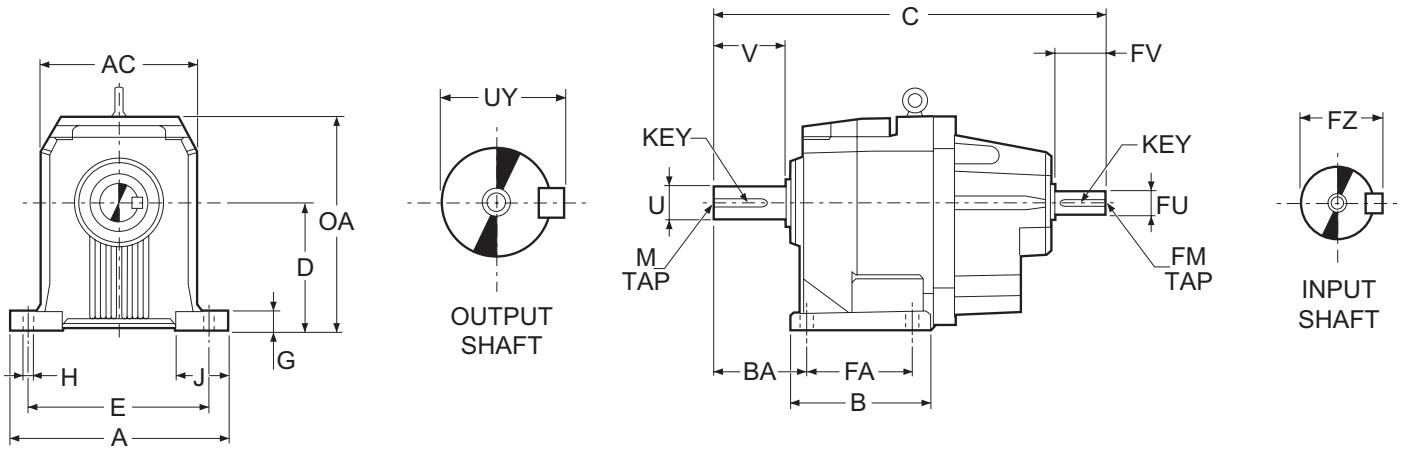
	N	NA	NB	NC	Weight [lbs / *kg*]
N56C	6.496	5.875	4.500	0.394	520 / *236*
N140TC	6.496	5.875	4.500	0.394	525 / *238*
N180TC	8.996	7.250	8.500	0.551	536 / *242*
N210TC	8.996	7.250	8.500	0.551	538 / *244*
N250TC	13.780	7.250	8.500	0.551	547 / *248*
N280TC	13.780	9.000	10.500	0.551	547 / *248*
N320TC	17.717	11.000	12.500	0.669	600 / *272*

Hollow input shaft

	MA	MB	MC
N56C	0.188	0.625	0.710
N140TC	0.188	0.875	0.964
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518
N250TC	0.375	1.625	1.796
N280TC	0.500	1.875	2.102
N320TC	0.500	2.125	2.350

	C						
	N56C	**N140TC**	**N180TC**	**N210TC**	**N250TC**	**N280TC**	**N320TC**
C 90 2	—	—	25.93 *658.5*	27.38 *695.5*	30.37 *771.5*	30.57 *776.5*	33.43 *849*
C 90 3	—	—	25.93 *658.5*	27.38 *695.5*	30.37 *771.5*	30.57 *776.5*	33.43 *849*
C 90 4	28.66 *728*	28.66 *728*	29.19 *741.5*	30.65 *778.5*	33.45 *849.5*	33.64 *854.5*	—

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	C	D	E	FA	G	H	J	OA
C 90 2, C90 3	20.472	14.764	13.346	8.268	36.12	11.811	17.323	9.843	1.575	1.299	5.512	19.488
	520	*375*	*339*	*210*	*917.5*	*300*	*440*	*250*	*40*	*33*	*140*	*495*
C 90 4	20.472	14.764	13.346	8.268	31.38	11.811	17.323	9.843	1.575	1.299	5.512	19.488
	520	*375*	*339*	*210*	*797*	*300*	*440*	*250*	*40*	*33*	*140*	*495*

Output shaft (Inch series)

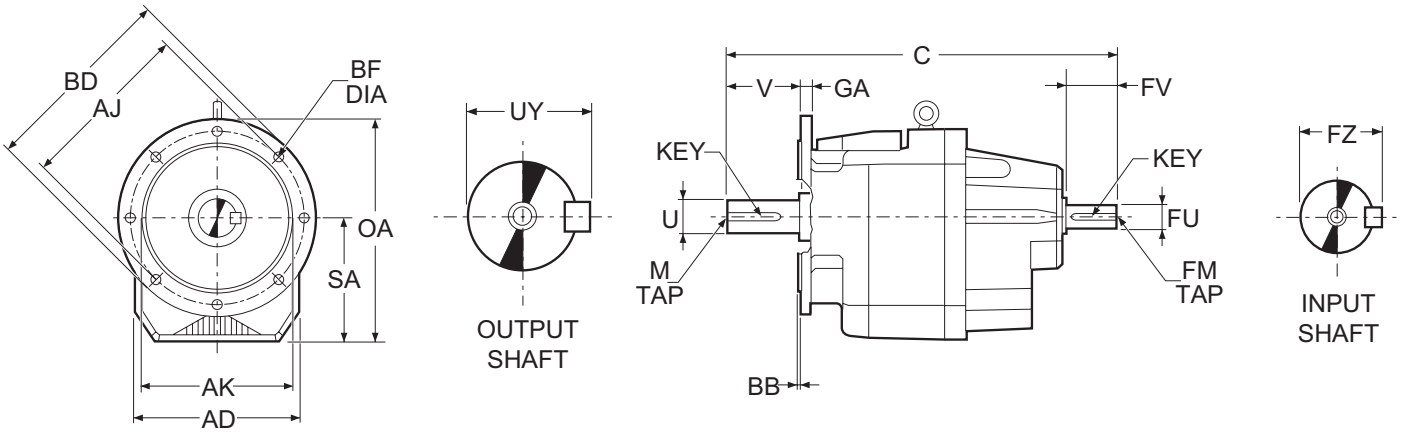
		U		UY	V	Key	M
C 90 2, C 90 3, C 90 4	**NP**	3.625	$^{+0}_{-0.0009}$	4.009	6.693	7/8 x 7/8 x 5 1/2	1 - 8 UNC

Input shaft (Inch series)

		FU		FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 90 2, C 90 3	**NHS**	2.125	$^{+0}_{-0.0007}$	2.345	5.000	1/2 x 1/2 x 4 3/4	3/4 - 10 UNC	601 / *273*
C 90 4	**NHS**	1.000	$^{+0}_{-0.0005}$	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	528 / *240*

Dimensions are $\frac{\text{inch}}{mm}$

Flange mounted, solid input shaft C 90 2 C 90 3 C 90 4



Gearcase

	AD	C	SA	OA
C 90 2, C 90 3	14.764	36.12	11.614	20.472
	375	*917.5*	*295*	*520*
C 90 4	14.764	31.38	11.614	20.472
	375	*797*	*295*	*520*

Flange

AJ	AK		BB	BD	BF	GA
15.748	13.780	-0.0024 -0.0047	0.197	17.717	0.709	0.866
400	*350*	-0.062 -0.119	*5*	*450*	*18*	*22*
15.748	13.780	-0.0024 -0.0047	0.197	17.717	0.709	0.866
400	*350*	-0.062 -0.119	*5*	*450*	*18*	*22*

Output shaft (Inch series)

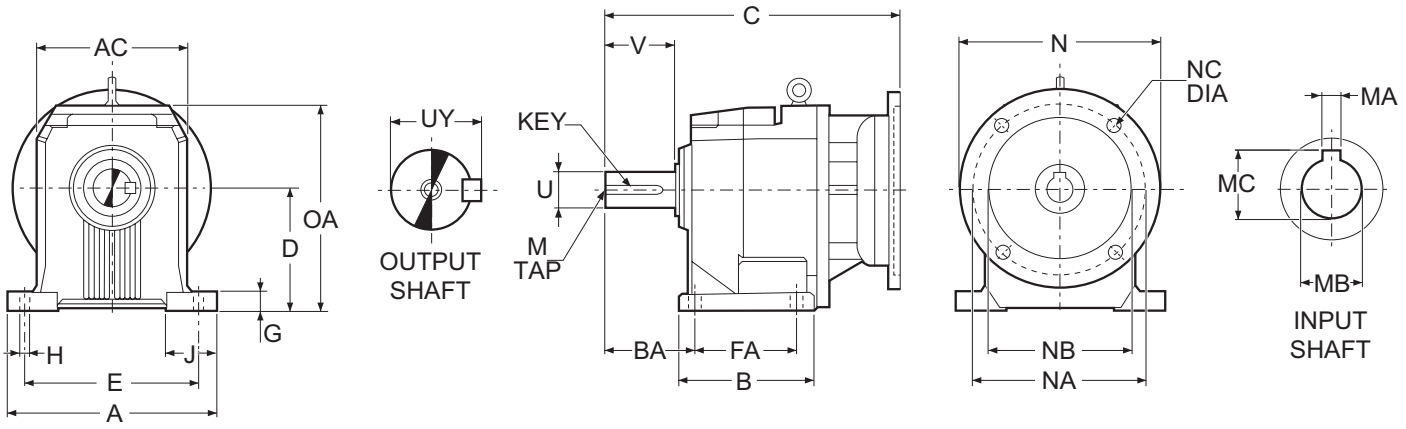
		U		UY	V	Key	M
C 90 2, C 90 3, C 90 4	**NF**	3.625	+0 -0.0009	4.009	6.693	7/8 x 7/8 x 5 1/2	1 - 8 UNC

Input shaft (Inch series)

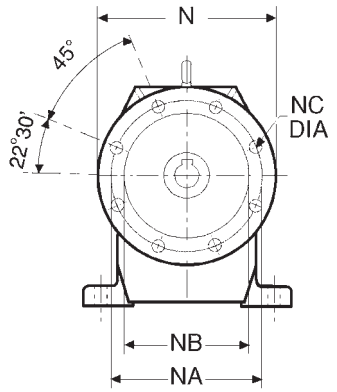
		FU		FZ	FV	Key	FM
C 90 2, C 90 3	**NHS**	2.125	+0 -0.0007	2.345	5.000	1/2 x 1/2 x 4 3/4	3/4 - 10 UNC
C 90 4	**NHS**	1.000	+0 -0.0005	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

Weight [lbs / *kg*]
601 / *273*
528 / *240*

Dimensions are inch / *mm*



C 90 _P225_P250



	C							
	P71	**P80 P90**	**P100 P112**	**P132**	**P160 P180**	**P200**	**P225**	**P250**
C 90 2, C 90 3	—	25.37 *644.5*	25.77 *654.5*	27.21 *691*	29.39 *746.5*	30.37 *771.5*	32.17 *817*	33.35 *847*
C 90 4	27.85 *707.5*	28.62 *727*	29.02 *737*	30.45 *773.5*	32.44 *824*	—	—	—

Gearcase

	A	AC	B	BA	D	E	FA	G	H	J	OA
C 90 2, C 90 3, C 90 4	20.472 *520*	14.764 *375*	13.346 *339*	8.268 *210*	11.811 *300*	17.323 *440*	9.843 *250*	1.575 *40*	1.299 *33*	5.512 *140*	19.488 *495*

Output shaft (Inch series)

		U	UY	V	Key	M
C 90 2, C 90 3, C 90 4	**NP**	3.625 $^{+0}_{-0.0009}$	4.009	6.693	7/8 x 7/8 x 5 1/2	1 - 8 UNC

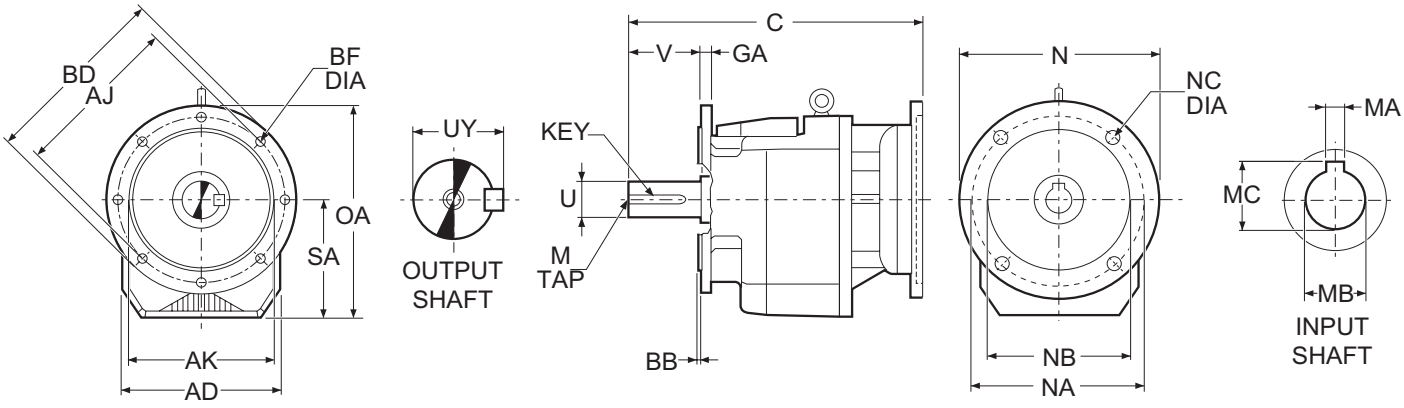
IEC Flange

	N	NA	NB	NC	Weight [lbs / *kg*]
P71	*160*	*130*	*110*	*M8x16*	519 / *236*
P80, P90	*200*	*165*	*130*	*M10x12*	524 / *238*
P100, P112	*250*	*215*	*180*	*M12x16*	532 / *242*
P132	*300*	*265*	*230*	*14*	537 / *244*
P160, P180	*350*	*300*	*250*	*18*	552 / *251*
P200	*400*	*350*	*300*	*M16x25*	598 / *272*
P225	*450*	*400*	*350*	*18*	601 / *273*
P250	*550*	*500*	*450*	*18*	649 / *295*

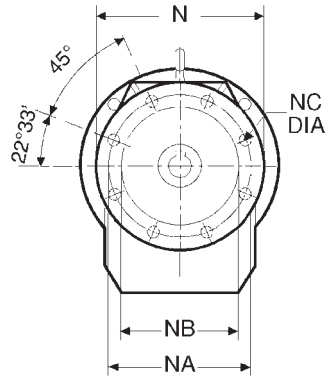
Hollow input shaft

	MA	MB	MC
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*
P132	*10*	*38*	*41.3*
P160	*12*	*42*	*45.3*
P180	*14*	*48*	*51.8*
P200	*16*	*55*	*59.3*
P225	*18*	*60*	*64.4*
P250	*18*	*65*	*69.4*

Dimensions are $\frac{\text{inch}}{mm}$



C 90 _P225_P250



	C							
	P71	**P80 P90**	**P100 P112**	**P132**	**P160 P180**	**P200**	**P225**	**P250**
C 90 2, C 90 3	—	25.37 *644.5*	25.77 *654.5*	27.21 *691*	29.39 *746.5*	30.37 *771.5*	32.17 *817*	33.35 *847*
C 90 4	27.85 *707.5*	28.62 *727*	29.02 *737*	30.45 *773.5*	32.44 *824*	—	—	—

Gearcase

	AD	SA	OA
C 90 2, C 90 3, C 90 4	14.764 *375*	11.614 *295*	20.472 *520*

Flange

AJ	AK		BB	BD	BF	GA
15.748 *400*	13.780 *350*	-0.0024 -0.0047 -0.062 -0.119	0.197 *5*	17.717 *450*	0.709 *18*	0.866 *22*

Output shaft (Inch series)

		U	UY	V	Key	M
C 90 2, C 90 3, C 90 4	**NF**	3.625 $^{+0}_{-0.0009}$	4.009	6.693	7/8 x 7/8 x 5 1/2	1 - 8 UNC

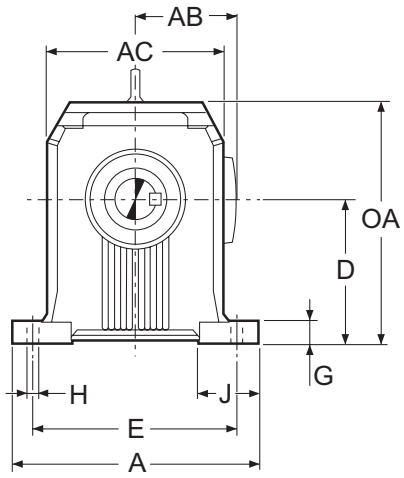
IEC Flange

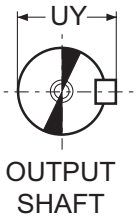
	N	NA	NB	NC	Weight [lbs / *kg*]
P71	*160*	*130*	*110*	*M8x16*	519 / *236*
P80, P90	*200*	*165*	*130*	*M10x12*	524 / *238*
P100, P112	*250*	*215*	*180*	*M12x16*	532 / *242*
P132	*300*	*265*	*230*	*14*	537 / *244*
P160, P180	*350*	*300*	*250*	*18*	552 / *251*
P200	*400*	*350*	*300*	*M16x25*	598 / *272*
P225	*450*	*400*	*350*	*18*	601 / *273*
P250	*550*	*500*	*450*	*18*	649 / *295*

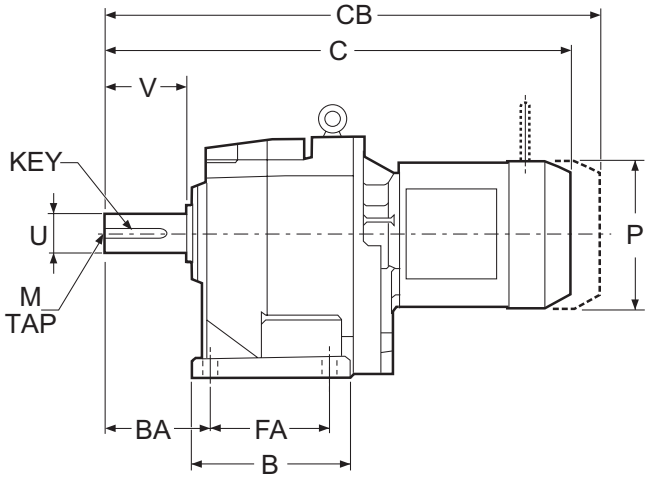
Hollow input shaft

	MA	MB	MC
P71	*5*	*14*	*16.3*
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*
P132	*10*	*38*	*41.3*
P160	*12*	*42*	*45.3*
P180	*14*	*48*	*51.8*
P200	*16*	*55*	*59.3*
P225	*18*	*60*	*64.4*
P250	*18*	*65*	*69.4*

Dimensions are $\frac{\text{inch}}{mm}$







Gearcase

	A	AC	B	BA	D	E	FA	G	H	J	OA
C 100 2, C 100 3, C 100 4	22.047 *560*	17.323 *440*	15.315 *389*	10.039 *255*	13.583 *345*	19.291 *490*	11.417 *290*	1.772 *45*	1.299 *33*	6.299 *160*	22.441 *570*

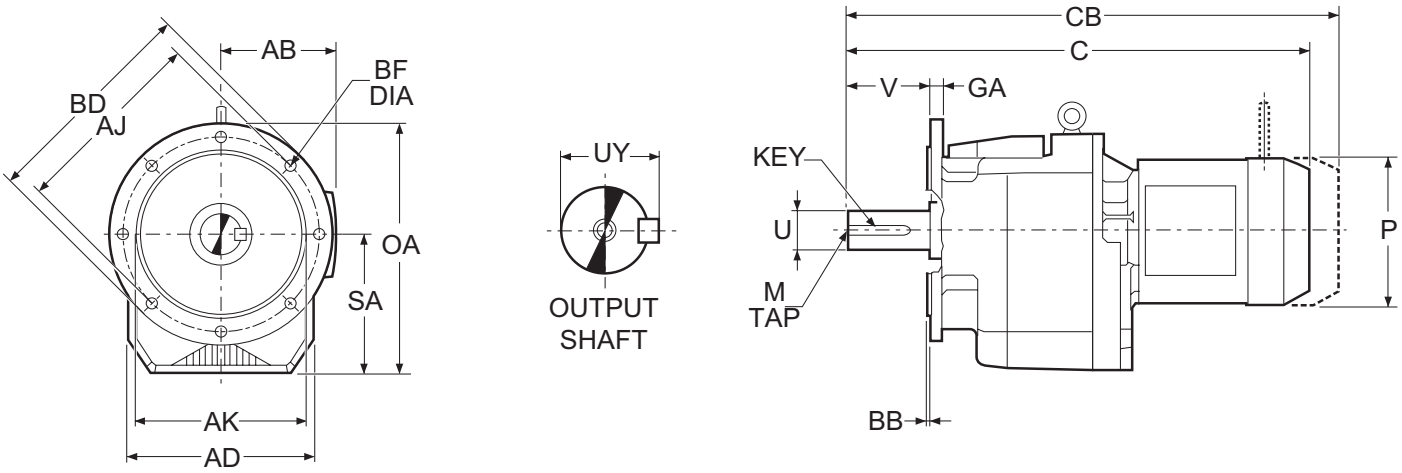
Output shaft (Inch series)

		U	UY	V	Key	M
C 100 2, C 100 3, C 100 4	**NP**	4.375 $^{+0}_{-0.0009}$	4.817	8.268	1 x 1 x 7 1/2	1 - 8 UNC

Motor

	AB	C	CB	P	**Weight** [lbs / *kg*]
C 100 2_S4 M4S **C 100 3_S4 M4S**	7.598 *193*	41.30 *1049*	45.59 *1158*	10.157 *258*	860 / *391*
C 100 2_S4 M4L **C 100 3_S4 M4L**	7.598 *193*	44.17 *1122*	48.07 *1221*	10.157 *258*	902 / *410*
C 100 2_S4 M4LC **C 100 3_S4 M4LC**	7.598 *193*	44.17 *1122*	48.07 *1221*	10.157 *258*	920 / *418*
C 100 2_S5 M5S **C 100 3_S5 M5S**	9.646 *245*	46.20 *1174*	51.71 *1314*	12.205 *310*	990 / *450*
C 100 2_S5 M5L **C 100 3_S5 M5L**	9.646 *245*	47.93 *1218*	53.45 *1358*	12.205 *310*	1025 / *466*
C 100 4_S2 M2S	4.685 *119*	38.84 *986.5*	41.59 *1057*	6.142 *156*	785 / *357*
C 100 4_S3 M3S	5.591 *142*	40.53 *1030*	44.31 *1126*	7.677 *195*	805 / *366*
C 100 4_S3 M3L	5.591 *142*	41.79 *1062*	45.37 *1153*	7.677 *195*	821 / *373*
C 100 4_S4 M4S	7.598 *193*	46.04 *1170*	50.34 *1729*	10.157 *258*	878 / *399*
C 100 4_S4 M4L	7.598 *193*	46.04 *1170*	50.34 *1279*	10.157 *258*	920 / *418*
C 100 4_S4 M4LC	9.646 *245*	47.42 *1205*	51.32 *1304*	10.157 *258*	937 / *426*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	AD	SA	OA
C 100 2, C 100 3, C 100 4	17.323 *440*	13.386 *340*	24.213 *615*

Flange

AJ	AK		BB	BD	BF	GA
19.685 *500*	17.717 *450*	-0.0027 -0.0052 -0.068 -0.131	0.197 *5*	21.654 *550*	0.709 *18*	0.984 *25*

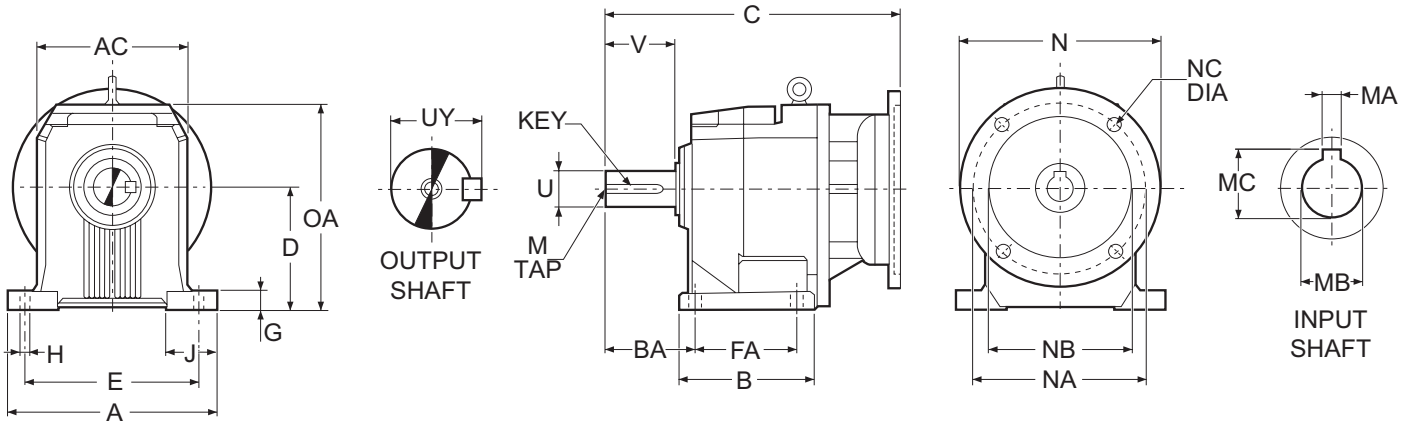
Output shaft (Inch series)

	U	UY	V	Key	M
C 100 2, C 100 3, C 100 4 NF	4.375 +0 -0.0009	4.817	8.268	1 x 1 x 7 1/2	1 - 8 UNC

Motor

	AB	C	CB	P	Weight [lbs / *kg*]
C 100 2_S4 M4S **C 100 3_S4 M4S**	7.598 *193*	41.30 *1049*	45.59 *1158*	10.157 *258*	860 / *391*
C 100 2_S4 M4L **C 100 3_S4 M4L**	7.598 *193*	44.17 *1122*	48.07 *1221*	10.157 *258*	902 / *410*
C 100 2_S4 M4LC **C 100 3_S4 M4LC**	7.598 *193*	44.17 *1122*	48.07 *1221*	10.157 *258*	920 / *418*
C 100 2_S5 M5S **C 100 3_S5 M5S**	9.646 *245*	46.20 *1174*	51.71 *1314*	12.205 *310*	990 / *450*
C 100 2_S5 M5L **C 100 3_S5 M5L**	9.646 *245*	47.93 *1218*	53.45 *1358*	12.205 *310*	1025 / *466*
C 100 4_S2 M2S	4.685 *119*	38.84 *986.5*	41.59 *1057*	6.142 *156*	785 / *357*
C 100 4_S3 M3S	5.591 *142*	40.53 *1030*	44.31 *1126*	7.677 *195*	805 / *366*
C 100 4_S3 M3L	5.591 *142*	41.79 *1062*	45.37 *1153*	7.677 *195*	821 / *373*
C 100 4_S4 M4S	7.598 *193*	46.04 *1170*	50.34 *1279*	10.157 *258*	878 / *399*
C 100 4_S4 M4L	7.598 *193*	46.04 *1170*	50.34 *1279*	10.157 *258*	920 / *418*
C 100 4_S4 M4LC	9.646 *245*	47.42 *1205*	51.32 *1304*	10.157 *258*	937 / *426*

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	D	E	FA	G	H	J	OA
C 100 2, C 100 3, C 100 4	22.047 *560*	17.323 *440*	15.315 *389*	10.039 *255*	13.583 *345*	19.291 *490*	11.417 *290*	1.772 *45*	1.299 *33*	6.299 *160*	22.441 *570*

Output shaft (Inch series)

		U	UY	V	Key	M
C 100 2, C 100 3, C 100 4	**NP**	4.375 $^{+0}_{-0.0009}$	4.817	8.268	1 x 1 x 7 1/2	1 - 8 UNC

NEMA Flange

	N	NA	NB	NC	Weight [lbs / *kg*]
N180TC	8.996	7.250	8.500	0.551	827 / *375*
N210TC	8.996	7.250	8.500	0.551	831 / *377*
N250TC	13.780	7.250	8.500	0.551	840 / *381*
N280TC	13.780	9.000	10.500	0.551	840 / *381*
N320TC	17.717	11.000	12.500	0.669	889 / *403*

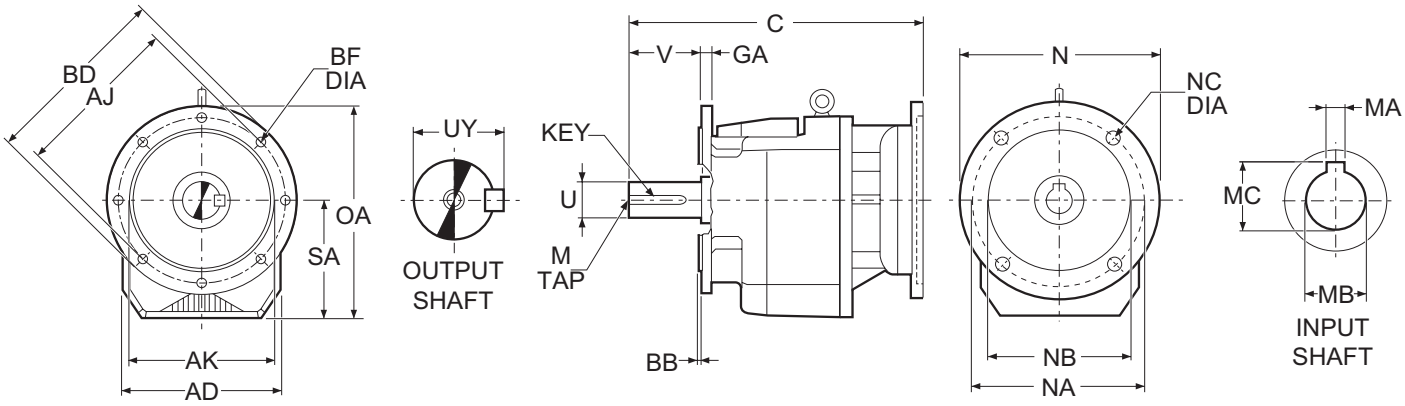
Hollow input shaft

	MA	MB	MC
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518
N250TC	0.375	1.625	1.796
N280TC	0.500	1.875	2.102
N320TC	0.500	2.125	2.350

	C				
	N180TC	**N210TC**	**N250TC**	**N280TC**	**N320TC**
C 100 2	—	31.12 *790.5*	34.11 *866.5*	34.31 *871.5*	37.17 *944*
C 100 3	—	31.12 *790.5*	34.11 *866.5*	34.31 *871.5*	37.17 *944*
C 100 4	32.91 *836*	34.37 *873*	37.17 *944*	37.36 *949*	—

Dimensions are $\frac{\text{inch}}{mm}$

Flange mounted, NEMA input C 100 2 C 100 3 C 100 4



Gearcase

	AD	SA	OA
C 100 2, C 100 3, C 100 4	17.323	13.386	24.213
	440	*340*	*615*

Flange

AJ	AK		BB	BD	BF	GA
19.685	17.717	-0.0027 -0.0052	0.197	21.654	0.709	0.984
500	*450*	-0.068 -0.131	*5*	*550*	*18*	*25*

Output shaft (Inch series)

		U		UY	V	Key	M
C 100 2, C 100 3, C 100 4	**NF**	4.375	+0 -0.0009	4.817	8.268	1 x 1 x 7 1/2	1 - 8 UNC

NEMA Flange

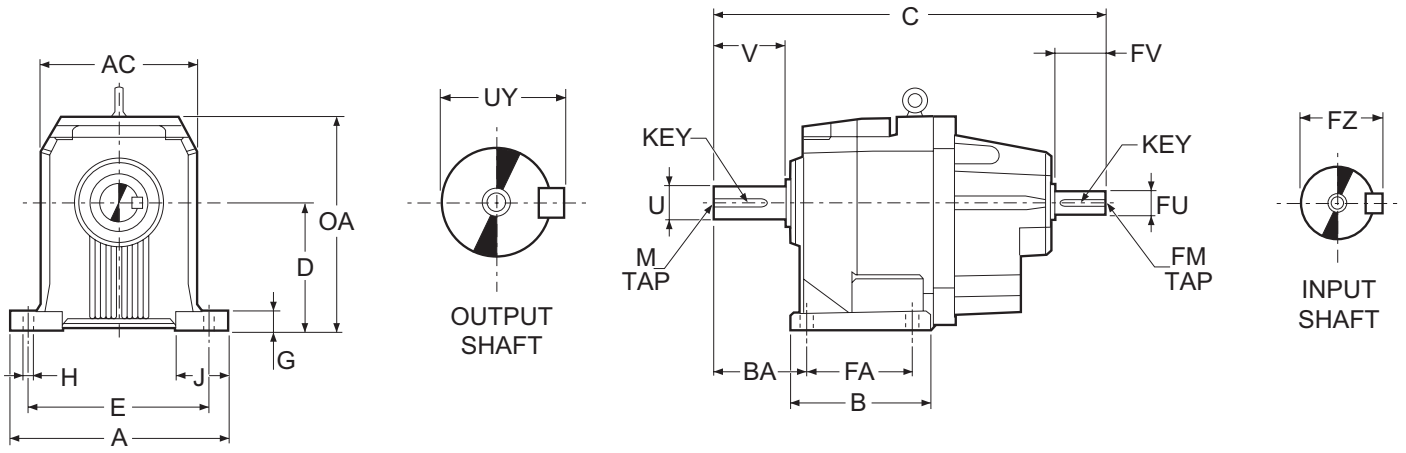
	N	NA	NB	NC	Weight [lbs / *kg*]
N180TC	8.996	7.250	8.500	0.551	827 / *375*
N210TC	8.996	7.250	8.500	0.551	831 / *377*
N250TC	13.780	7.250	8.500	0.551	840 / *381*
N280TC	13.780	9.000	10.500	0.551	840 / *381*
N320TC	17.717	11.000	12.500	0.669	889 / *403*

Hollow input shaft

	MA	MB	MC
N180TC	0.250	1.125	1.241
N210TC	0.312	1.375	1.518
N250TC	0.375	1.625	1.796
N280TC	0.500	1.875	2.102
N320TC	0.500	2.125	2.350

	C				
	N180TC	**N210TC**	**N250TC**	**N280TC**	**N320TC**
C 100 2	—	31.12	34.11	34.31	37.17
		790.5	*866.5*	*871.5*	*944*
C 100 3	—	31.12	34.11	34.31	37.17
		790.5	*866.5*	*871.5*	*944*
C 100 4	32.91	34.37	37.17	37.36	—
	836	*873*	*944*	*949*	

Dimensions are $\frac{\text{inch}}{mm}$



Gearcase

	A	AC	B	BA	C	D	E	FA	G	H	J	OA
C 100 2, C 100 3	22.047	17.323	15.315	10.039	39.86	13.583	19.291	11.417	1.772	1.299	6.299	22.441
	560	*440*	*389*	*255*	*1012.5*	*345*	*490*	*290*	*45*	*33*	*160*	*570*
C 100 4	22.047	17.323	15.315	10.039	35.12	13.583	19.291	11.417	1.772	1.299	6.299	22.441
	560	*440*	*389*	*255*	*892*	*345*	*490*	*290*	*45*	*33*	*160*	*570*

Output shaft (Inch series)

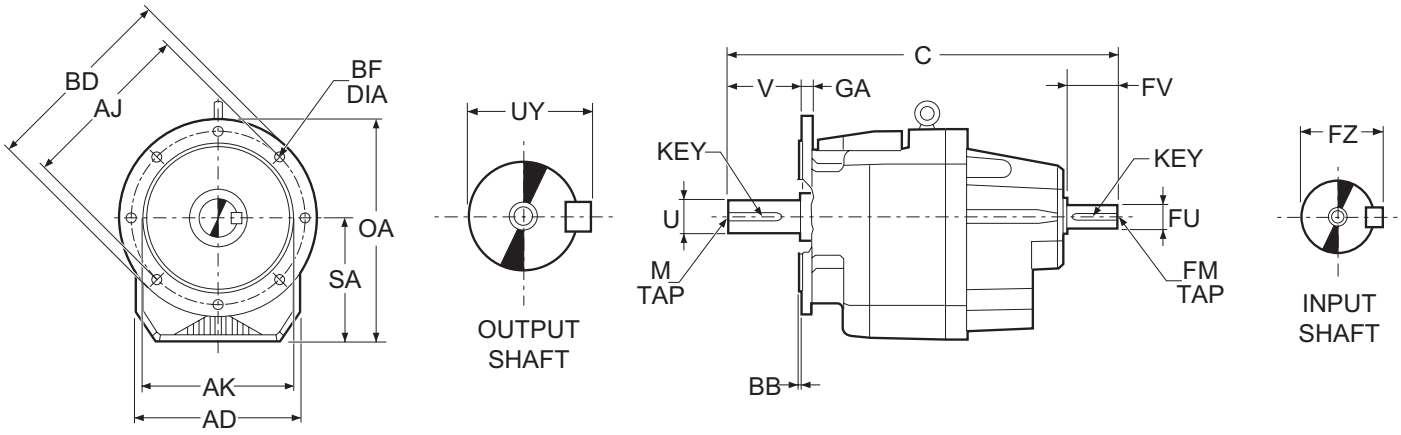
		U		UY	V	Key	M
C 100 2, C 100 3, C 100 4	**NP**	4.375	$^{+0}_{-0.0009}$	4.817	8.268	1 x 1 x 7 1/2	1 - 8 UNC

Input shaft (Inch series)

		FU		FZ	FV	Key	FM	**Weight** [lbs / *kg*]
C 100 2, C 100 3	**NHS**	2.125	$^{+0}_{-0.0007}$	2.345	5.000	1/2 x 1/2 x 4 3/4	3/4 - 10 UNC	900 / *409*
C 100 4	**NHS**	1.000	$^{+0}_{-0.0005}$	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC	818 / *372*

Dimensions are $\frac{\text{inch}}{mm}$

Flange mounted, solid input shaft C 100 2 C 100 3 C 100 4



Gearcase

	AD	C	SA	OA
C 100 2, C 100 3	17.323	39.86	13.386	24.213
	440	*1012.5*	*340*	*615*
C 100 4	17.323	35.12	13.386	24.213
	440	*892*	*340*	*615*

Flange

AJ	AK		BB	BD	BF	GA
19.685	17.717	-0.0027 -0.0052	0.197	21.654	0.709	0.984
500	*450*	-0.068 -0.131	*5*	*550*	*18*	*25*
19.685	17.717	-0.0027 -0.0052	0.197	21.654	0.709	0.984
500	*450*	-0.068 -0.131	*5*	*550*	*18*	*25*

Output shaft (Inch series)

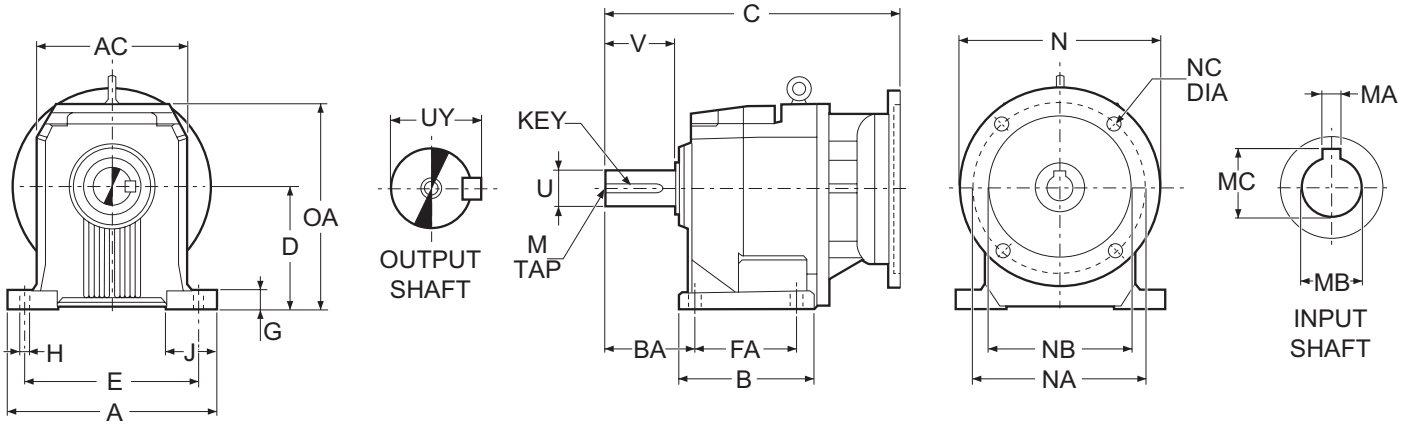
		U		UY	V	Key	M
C 100 2, C 100 3, C 100 4	**NF**	4.375	+0 -0.0009	4.817	8.268	1 x 1 x 7 1/2	1 - 8 UNC

Input shaft (Inch series)

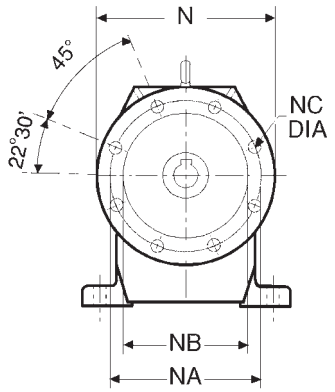
		FU		FZ	FV	Key	FM
C 100 2, C 100 3	**NHS**	2.125	+0 -0.0007	2.345	5.000	1/2 x 1/2 x 4 3/4	3/4 - 10 UNC
C 100 4	**NHS**	1.000	+0 -0.0005	1.110	1.970	1/4 x 1/4 x 1 3/4	3/8 - 16 UNC

Weight [lbs / *kg*]
900 / *409*
818 / *372*

Dimensions are $\frac{\text{inch}}{mm}$



C 100 _P225_P250_P280



	C						
	P80 P90	**P100 P112**	**P132**	**P160 P180**	**P200**	**P225**	**P250 P280**
C 100 2, C 100 3	—	29.51 *749.5*	30.95 *786*	33.13 *841.5*	34.11 *866.5*	35.91 *912*	37.09 *942*
C 100 4	32.38 *822.5*	32.78 *832.5*	34.21 *869*	36.20 *919.5*	—	—	—

Gearcase

	A	**AC**	**B**	**BA**	**D**	**E**	**FA**	**G**	**H**	**J**	**OA**
C 100 2, C 100 3, C 100 4	22.047 *560*	17.323 *440*	15.315 *389*	10.039 *255*	13.583 *345*	19.291 *490*	11.417 *290*	1.772 *45*	1.299 *33*	6.299 *160*	22.441 *570*

Output shaft (Inch series)

		U	**UY**	**V**	**Key**	**M**
C 100 2, C 100 3, C 100 4	**NP**	4.375 $^{+0}_{-0.0009}$	4.817	8.268	1 x 1 x 7 1/2	1 - 8 UNC

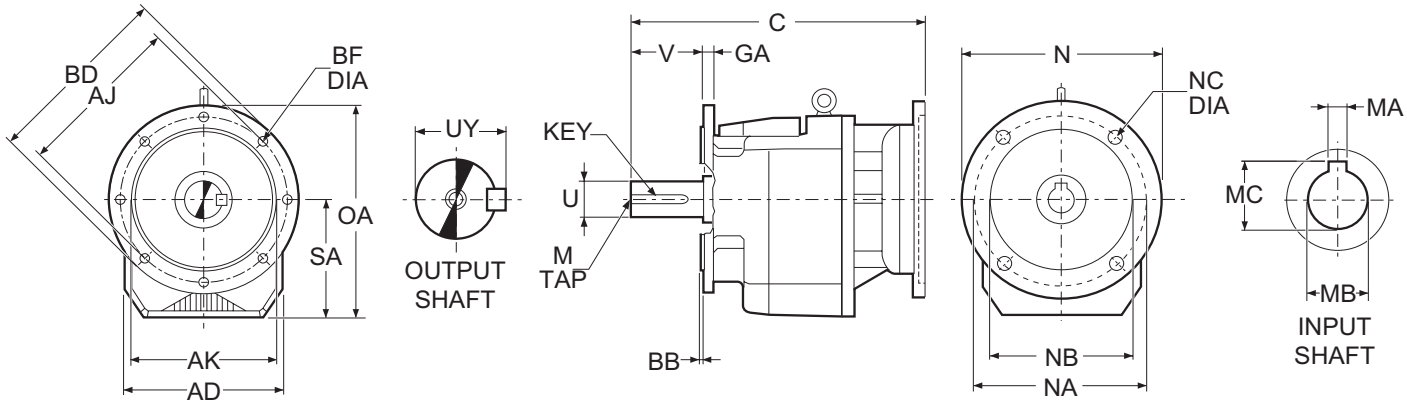
IEC Flange

	N	**NA**	**NB**	**NC**	**Weight** [lbs / *kg*]
P80, P90	*200*	*165*	*130*	*M10x12*	816 / *371*
P100, P112	*250*	*215*	*180*	*M12x16*	825 / *375*
P132	*300*	*265*	*230*	*14*	829 / *377*
P160, P180	*350*	*300*	*250*	*18*	840 / *382*
P200	*400*	*350*	*300*	*M16x25*	887 / *403*
P225	*450*	*400*	*350*	*18*	887 / *403*
P250, P280	*550*	*500*	*450*	*18*	937 / *426*

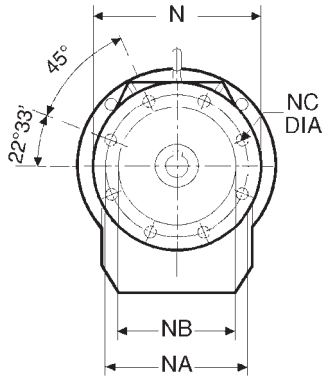
Hollow input shaft

	MA	**MB**	**MC**
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*
P132	*10*	*38*	*41.3*
P160	*12*	*42*	*45.3*
P180	*14*	*48*	*51.8*
P200	*16*	*55*	*59.3*
P225	*18*	*60*	*64.4*
P250	*18*	*65*	*69.4*
P280	*20*	*75*	*79.9*

Dimensions are $\frac{\text{inch}}{mm}$



C 100 _P225_P250_P280



	C						
	P80 P90	**P100 P112**	**P132**	**P160 P180**	**P200**	**P225**	**P250 P280**
C 100 2, C 100 3	—	29.51 *749.5*	30.95 *786*	33.13 *841.5*	34.11 *866.5*	35.91 *912*	37.09 *942*
C 100 4	32.38 *822.5*	32.78 *832.5*	34.21 *869*	36.20 *919.5*	—	—	—

Gearcase

	AD	SA	OA
C 100 2, C 100 3, C 100 4	17.323 *440*	13.386 *340*	24.213 *615*

Flange

AJ	AK		BB	BD	BF	GA
19.685 *500*	17.717 *450*	-0.0027 -0.0052 -0.068 -0.131	0.197 *5*	21.654 *550*	0.709 *18*	0.984 *25*

Output shaft (Inch series)

	U	UY	V	Key	M
C 100 2, C 100 3, C 100 4 NF	4.375 +0 -0.0009	4.817	8.268	1 x 1 x 7 1/2	1 - 8 UNC

IEC Flange

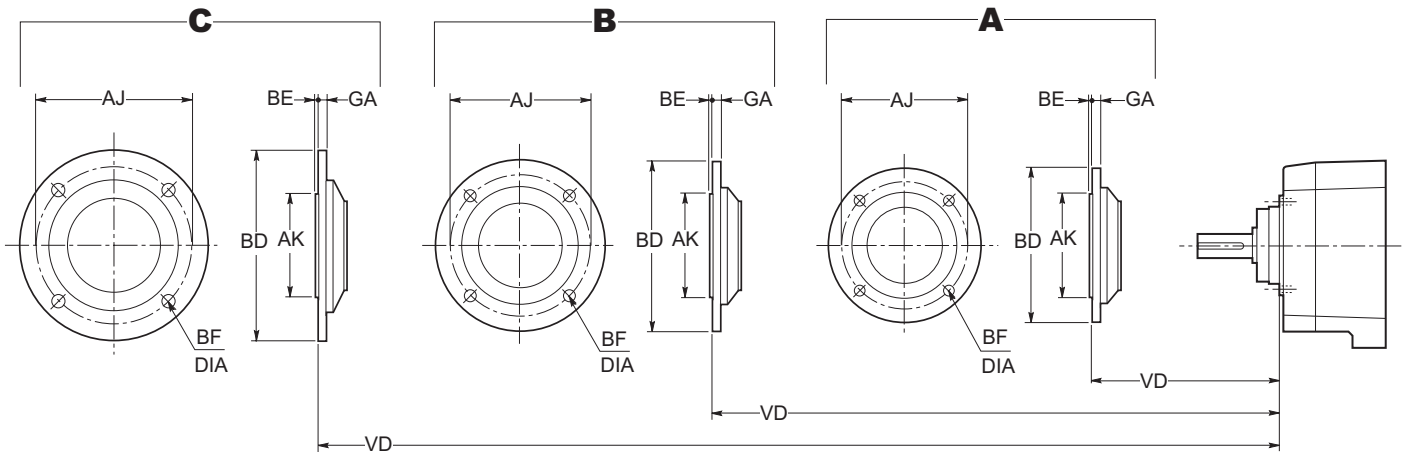
	N	NA	NB	NC	Weight [lbs / *kg*]
P80, P90	*200*	*165*	*130*	*M10x12*	816 / *371*
P100, P112	*250*	*215*	*180*	*M12x16*	825 / *375*
P132	*300*	*265*	*230*	*14*	829 / *377*
P160, P180	*350*	*300*	*250*	*18*	840 / *382*
P200	*400*	*350*	*300*	*M16x25*	887 / *403*
P225	*450*	*400*	*350*	*18*	887 / *403*
P250, P280	*550*	*500*	*450*	*18*	937 / *426*

Hollow input shaft

	MA	MB	MC
P80	*6*	*19*	*21.8*
P90	*8*	*24*	*27.3*
P100, P112	*8*	*28*	*31.3*
P132	*10*	*38*	*41.3*
P160	*12*	*42*	*45.3*
P180	*14*	*48*	*51.8*
P200	*16*	*55*	*59.3*
P225	*18*	*60*	*64.4*
P250	*18*	*65*	*69.4*
P280	*20*	*75*	*79.9*

Dimensions are inch / *mm*

Flange options for C 11_NU...C 61_NU

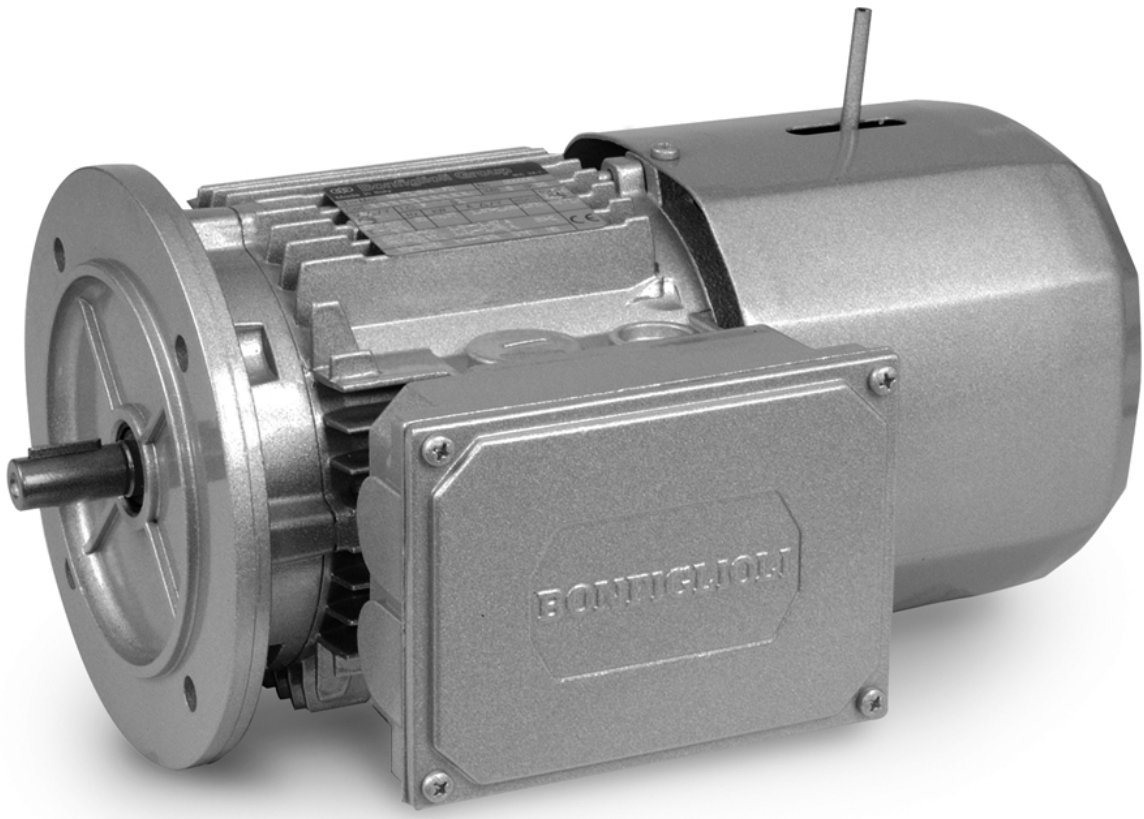


Flange

		AJ	AK	BD	BE	BF	GA	VD
FA	**C 11**	3.937 *100*	3.150 $^{-0.0017}_{-0.0033}$ *80* $^{-0.043}_{-0.083}$	4.724 *120*	0.118 *3*	0.276 *7*	0.315 *8*	0.866 *22*
	C 21	4.528 *115*	3.740 $^{-0.0017}_{-0.0033}$ *95* $^{-0.043}_{-0.083}$	5.512 *140*	0.118 *3*	0.354 *9*	0.394 *10*	1.220 *31*
	C 31	5.118 *130*	4.331 $^{-0.0017}_{-0.0033}$ *110* $^{-0.043}_{-0.083}$	6.299 *160*	0.118 *3*	0.354 *9*	0.394 *10*	1.417 *36*
	C 35	6.496 *165*	5.118 $^{-0.0017}_{-0.0033}$ *130* $^{-0.043}_{-0.083}$	7.874 *200*	0.138 *3.5*	0.433 *11*	0.433 *11*	0.709 *18*
	C 41	6.496 *165*	5.118 $^{-0.0017}_{-0.0033}$ *130* $^{-0.043}_{-0.083}$	7.874 *200*	0.138 *3.5*	0.433 *11*	0.433 *11*	1.575 *40*
	C 51	8.465 *215*	7.087 $^{-0.0017}_{-0.0033}$ *180* $^{-0.043}_{-0.083}$	9.843 *250*	0.157 *4*	0.551 *14*	0.512 *13*	0.768 *19.5*
	C 61	10.433 *265*	9.055 $^{-0.0017}_{-0.0033}$ *230* $^{-0.043}_{-0.083}$	11.811 *300*	0.157 *4*	0.551 *14*	0.630 *16*	0.984 *25*
FB	**C 11**	4.528 *115*	3.740 $^{-0.0017}_{-0.0033}$ *95* $^{-0.043}_{-0.083}$	5.512 *140*	0.118 *3*	0.354 *9*	0.394 *10*	0.866 *22*
	C 21	5.118 *130*	4.331 $^{-0.0017}_{-0.0033}$ *110* $^{-0.043}_{-0.083}$	6.299 *160*	0.118 *3*	0.354 *9*	0.394 *10*	1.220 *31*
	C 31	6.496 *165*	5.118 $^{-0.0017}_{-0.0033}$ *130* $^{-0.043}_{-0.083}$	7.874 *200*	0.138 *3.5*	0.433 *11*	0.433 *11*	1.417 *36*
	C 35	8.465 *215*	7.087 $^{-0.0017}_{-0.0033}$ *180* $^{-0.043}_{-0.083}$	9.843 *250*	0.157 *4*	0.551 *14*	0.551 *14*	0.709 *18*
	C 41	8.465 *215*	7.087 $^{-0.0017}_{-0.0033}$ *180* $^{-0.043}_{-0.083}$	9.843 *250*	0.157 *4*	0.551 *14*	0.512 *13*	1.575 *40*
	C 51	10.433 *265*	9.055 $^{-0.0017}_{-0.0033}$ *230* $^{-0.043}_{-0.083}$	11.811 *300*	0.157 *4*	0.551 *14*	0.630 *16*	0.768 *19.5*
	C 61	11.811 *300*	9.843 $^{-0.0017}_{-0.0033}$ *250* $^{-0.043}_{-0.083}$	13.780 *350*	0.197 *5*	0.709 *18*	0.709 *18*	0.984 *25*
FC	**C 11**	5.118 *130*	4.331 $^{-0.0017}_{-0.0033}$ *110* $^{-0.043}_{-0.083}$	6.299 *160*	0.118 *3*	0.354 *9*	0.394 *10*	0.866 *22*
	C 21	6.496 *165*	5.118 $^{-0.0017}_{-0.0033}$ *130* $^{-0.043}_{-0.083}$	7.874 *200*	0.138 *3.5*	0.433 *11*	0.433 *11*	1.220 *31*
	C 31	8.465 *215*	7.087 $^{-0.0017}_{-0.0033}$ *180* $^{-0.043}_{-0.083}$	9.843 *250*	0.157 *4*	0.551 *14*	0.512 *13*	1.417 *36*

Dimensions are $\frac{\text{inch}}{mm}$

3.0 BONFIGLIOLI ELECTRIC MOTORS



3.1 GENERAL INFORMATION

BONFIGLIOLI RIDUTTORI three-phase AC induction motors and brake motors are designed for continuous operation, IEC dimensional standard and comply electrically with all relevant standards including NEMA MG1.

They are supplied either integral (M type) to a BONFIGLIOLI gear unit or flanged design (BN type).

The motors also comply with national standards adapted to IEC 60034-1 as charted along side.

(C1)

Canada	CSA C22.2 N° 100
Great Britain	BS5000 / BS 4999
Germany	DIN VDE 0530
Australia	AS 1359
Belgium	NBNC 51 - 101
Norway	NEK – IEC 34
France	NF C 51
Austria	OEVE M 10
Switzerland	SEV 3009
Netherlands	NEN 3173
Sweden	SS 426 01 01

Abbreviations and units

Symb.	U.m.	Description
cos φ	–	Power factor
η	–	Efficiency
$\mathbf{f_m}$	–	Intermittence adjustment factor
$\mathbf{f_t}$	–	Ambient temperature factor
I	–	Cyclic duration factor
$\mathbf{I_n}$	[A]	Rated current
$\mathbf{I_s}$	[A]	Locked rotor current
$\mathbf{J_c}$	[lb·ft^2]	Load inertia
$\mathbf{J_m}$	[lb·ft^2]	Motor inertia
n	[rpm]	Speed
$\mathbf{K_c}$	–	Torque factor
$\mathbf{K_d}$	–	Load factor
$\mathbf{K_i}$	–	Inertia factor
$\mathbf{T_b}$	[lb·in]	Brake torque
$\mathbf{T_n}$	[lb·in]	Motor rated torque
$\mathbf{T_a}$	[lb·in]	Mean starting torque
$\mathbf{T_k}$	[lb·in]	Breakdown torque
$\mathbf{T_L}$	[lb·in]	Load torque
$\mathbf{T_s}$	[lb·in]	Locked rotor torque
$\mathbf{P_b}$	[W]	Power absorbed by brake coil
$\mathbf{P_n}$	[W]	Rated power output
$\mathbf{t_1}$	[ms]	Brake release time
$\mathbf{t_{1s}}$	[ms]	Shorter brake release time
$\mathbf{t_2}$	[ms]	Brake reaction time
$\mathbf{t_{2c}}$	[ms]	Faster reaction time
$\mathbf{t_a}$	[°C/ °F]	Ambient temperature
$\mathbf{t_f}$	[min]	Operating time at constant load
$\mathbf{t_r}$	[min]	Rest time
W	[lb•ft]	Brake work between two successive adjustments
$\mathbf{W_{max}}$	[lb•ft]	Max permissible brake work
Z	[1/h]	Permissible starts per hour

Conversion table for commonly used metric – imperial units

Length

1 in	=	25.40 mm	= 0.0254 m
1 ft	=	304.8 mm	= 0.3048 m
1 yd	=	914.4 mm	= 0.9144 m

Area

1 in^2	=	645.16 mm^2	= 0.645×10^{-3} m^2
1 ft^2	=	92.9×10^3 mm^2	= 92.9× 10^3 m^2
1 yd^2	=	836×10^3 mm^2	= 0.8361 m^2

Volume

1 in^3	=	16.4×10^{-3} dm^3	= 16.4×10^{-6} m^3
1 ft^3	=	28.32 dm^3	= 28.3×10^{-3} m^3

Force – Weight

1 lbm	=	2.2046 kg
1 lbf	=	4.4482 N

Torque

1 lb in	=	0.1129 Nm
1 lb ft	=	1.3558 Nm

Power

1 hp	=	0.7457 kW

Moment of inertia

1 lb ft^2	=	4.214×10^{-2}	kg m^2
1 lb in s^2	=	1.12985×10^{-1}	kg m^2
1 lb ft s^2	=	1.35582	kg m^2

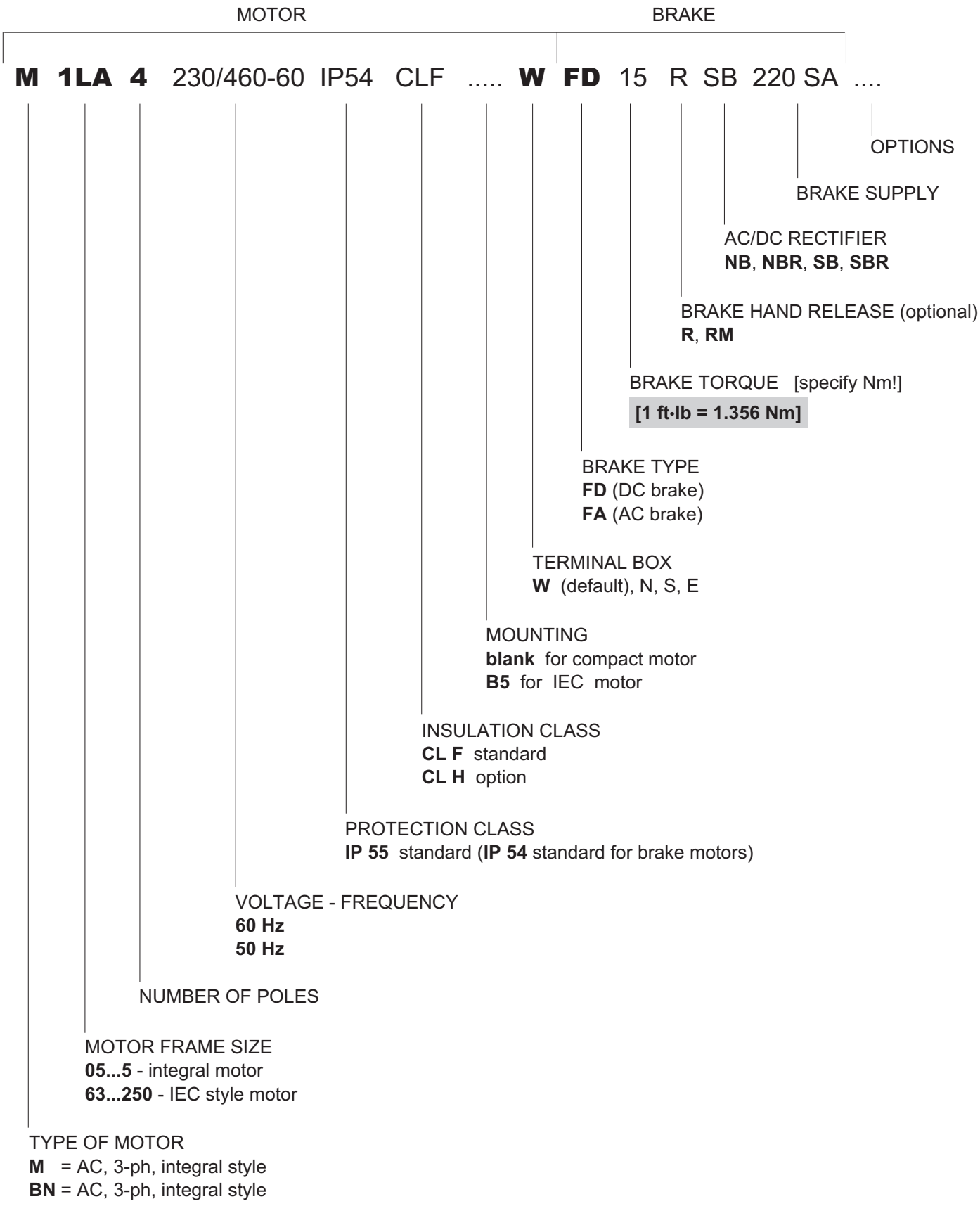
Pressure – stress

1 lb/in^2	=	6.89×10^{-3}	N/mm^2
1 lb/ft^2	=	47.88	N/m^2

Temperature

t [°F]	=	$\frac{5}{9}$ x [t – 32]	[°C]
T [°C]	=	$\left(\frac{9}{5}\text{ x T} + 32\right)$	[°F]

3.2 MOTOR ORDERING NUMBERS



US power mains voltages and the corresponding rated voltages to be specified for the motor are indicated in the following table:

(C2)

Frequency	Mains voltage	V_{mot}
60 Hz	208 V	**200 V**
	240 V	**230 V**
	480 V	**460 V**
	600 V	**575 V**

Motors with YY/Y connection (e.g. 230/460-60; 220/440-60) feature, as standard, a 9-stud terminal board.
For DC brake motors type BN_FD, the rectifier is fed with 1-phase 230V a.c., factory pre-wired in the motor terminal box as standard.

Brake power supply for brake motors is as follows:

(C3)

BN_FD M_FD	
Wired to terminal box 1~230V a.c.	
BN_FA M_FA	
	Specify
Separate power supply 230V Δ - 60Hz	**230SA**
Separate power supply 460V Y - 60Hz	**460SA**

Tolerances

As per the IEC standards applicable the tolerances here after apply to the following quantities.

(C4)

-0.15 (1 - η) P ≤ 75 hp	Efficiency
-(1 - cosφ)/6 min 0.02 max 0.07	Power factor
±20% *	Slip
+20%	Locked rotor current
-15% +25%	Locked rotor torque
-10%	Max. torque

* ± 30% for motors with Pn < 0.75 hp

CUS

Motors for USA and Canada

BN and M motors are available in NEMA Design C configuration (concerning electrical characteristics), certified to CSA (Canadian standard) C22.2 No. 100 and UL (Underwriters Laboratory) UL 1004. By specifying the option CUS the name plate is marked with both symbols shown here below.

3.3 MECHANICAL CHARACTERISTICS

IP..

Enclosures

Motors are provided as totally enclosed fan-cooled (TEFC) according to NEMA MG1 1-26-2 1998 and they are designed for IP 55 (IP 54 for brake motors) degree of protection in accordance with NEMA MG1- 5 / IEC 60034-5 Standards. Higher degree of protection (IP 56, or IP 55 for brake motors) is available on request.
The following table provides an overview of the available degree of protection.
Regardless of the protection class specified on order, motors to be installed outdoors require protection against direct sunlight and in addition – when they are to be installed with the shaft downwards – a drip cover to keep out water and solid matter (option **RC**).

(C5)

		IP 54	IP 55	IP 56
		n.a.	standard	at request
BN_FD BN_FA	**M_FD M_FD**	standard	at request	n.a.

Cooling

The motors are self ventilated (IEC 411 / NEMA MG1-6) and are equipped with a plastic fan working in both directions. The motors must be installed allowing sufficient space between fan cowl and the nearest wall to ensure

free air intake and allow access for maintenance purposes on motor and brake, if supplied.
Independent, forced air ventilation (IEC 416 / NEMA MG1-6) can be supplied on request (option U1).
This solution enables to increase the motor duty factor when driven by an inverter and operating at reduced speed.

Direction of rotation

Rotation is possible in both directions. If terminals U1, V1, and W1 are connected to line phases L1, L2 and L3, clockwise rotation (looking from drive end) is obtained. For counterclockwise rotation, switch two phases.

Noise

Noise levels, measured using the method prescribed by ISO 1680 Standards, are within the maximum levels specified by Standards CEI EN 60034-9.

Vibrations and balancing

Rotor shafts are balanced with half key fitted and fall within the vibration class N, as per Standard CEI EN 60034-14. If a further reduced noise level is required improved balancing can be optionally requested (class N).
Table below shows the value for the vibration velocity for standard (N) and improved (R) balancing.

(C6)

Vibration class	Angular velocity	Limits of the vibration velocity [mm/s]	
	n [rpm]	**BN 56…BN 132 M05…M4**	**BN 160MR…BN 200 M5**
N	$600 \le n \le 3600$	1.8	2.8
R	$600 \le n \le 1800$	0.71	1.12
	$1800 < n \le 3600$	1.12	1.8

Values refer to measures with freely suspended motor in unloaded conditions.

Winding connection and motor terminal box

Standard terminal board has 9 studs for YY-Y dual-voltage winding and 6 studs for star/delta winding configuration (single-speed motors).

An earth terminal located in the terminal box is provided as standard on all motors.
For DC brake motors, the AC/DC rectifier is supplied in the terminal box and it is provided with adequately connected terminals.
All connections must be carried out according to the diagrams inside the terminal box or in the instruction manual.

Cable entry

(C7)

		Cable entry (metric thread)	Max cable diam. [mm]
BN 63	**M 05**	2 x M20	13
BN 71	**M 1**	2 x M25	17
BN 80 - BN 90	**M 2**	2 x M25	17
BN 100	**M 3**	2 x M32	21
		2 x M25	17
BN 112	—	2 x M32 2 x M25	17
BN 132...BN 160MR	**M 4**	4 x M32	21
BN 160M...BN 200L	**M 5**	2 x M40	29

Bearings

Life lubricated preloaded radial ball bearings are used, types are shown in the chart here under.
Calculated endurance lifetime L_{10}, as per ISO 281, in unloaded condition, exceeds 40000 hrs.

DE = drive end
NDE = non drive end

(C8)

	DE	NDE	
	M, M_FD, M_FA	**M**	**M_FD, M_FA**
M05	6004 2Z C3	6201 2Z C3	6201 2RS C3
M1	6004 2Z C3	6202 2Z C3	6202 2RS C3
M2	6007 2Z C3	6204 2Z C3	6204 2RS C3
M3	6207 2Z C3	6206 2Z C3	6206 2RS C3
M4	6309 2Z C3	6208 2Z C3	6208 2RS C3
M5	6309 2Z C3	6209 2Z C3	6209 2RS C3

(C9)

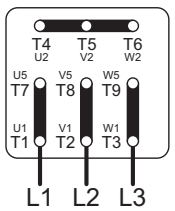
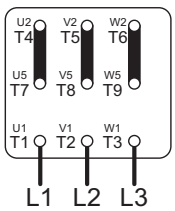
	DE	NDE	
	BN, BN_FD, BN_FA	BN	BN_FD, BN_FA
BN 56	6201 2Z C3	6201 2Z C3	-
BN 63	6201 2Z C3	6201 2Z C3	6201 2Z C3
BN 71	6202 2Z C3	6202 2Z C3	6202 2Z C3
BN 80	6204 2Z C3	6204 2Z C3	6204 2Z C3
BN 90	6205 2Z C3	6205 2Z C3	6205 2Z C3
BN 100	6206 2Z C3	6206 2Z C3	6206 2Z C3
BN 112	6306 2Z C3	6306 2Z C3	6306 2Z C3
BN 132	6308 2Z C3	6308 2Z C3	6308 2Z C3
BN 160MR	6309 2Z C3	6308 2Z C3	6308 2Z C3
BN 160M/L	6309 2Z C3	6309 2Z C3	6309 2Z C3
BN 180M	6210 2Z C3	6309 2Z C3	6309 2Z C3
BN 180L	6310 2Z C3	6310 2Z C3	6310 2Z C3
BN 200L	6312 2Z C3	6310 2Z C3	6310 2Z C3

3.4 ELECTRICAL CHARACTERISTICS

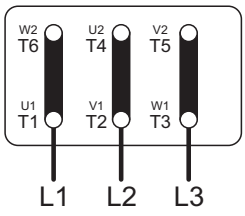
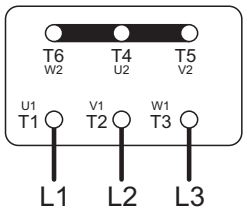
Voltage

Motors can operate on any voltage within the range of 200 – 690 Volts. Voltage to be <600 V for CSA/UL motors. Voltage values available as standard are 230/460V-60 Hz and 575V-60Hz.
Other voltage values may be available on request.

(C10)

Low Voltage	High Voltage
230V - 60Hz	460V - 60Hz
200V - 50Hz	400V - 50Hz
Single-Speed / Dual-Voltage	
Low Voltage YY	High Voltage Y
	

(C11)

Low Voltage	High Voltage
200V - 50Hz	346V - 50Hz
208V - 60Hz	360V - 60Hz
220V - 50Hz	380V - 50Hz
230V - 50Hz	400V - 50Hz
240V - 50Hz	415V - 50Hz
330V - 60Hz	575V - 60Hz
Single-Speed / Dual-Voltage	
Low Voltage Δ	High Voltage Y
	

Rated horsepower

Motor outputs shown in this catalogue are based on continuous operation at 40 °C [100 °F] ambient temperature and maximum elevation not exceeding 3300 feet (1000 m) above the sea level.
Motors can operate at higher ambient temperatures with output adjusted in accordance with the chart (C12) here below.

(C12)

Ambient temperature [°F]	100	115	120	130	140
Power output as a % of rated power	100%	95%	90%	85%	80%

Should a derating factor higher than 15% apply, contact our Technical Service.

Insulation class

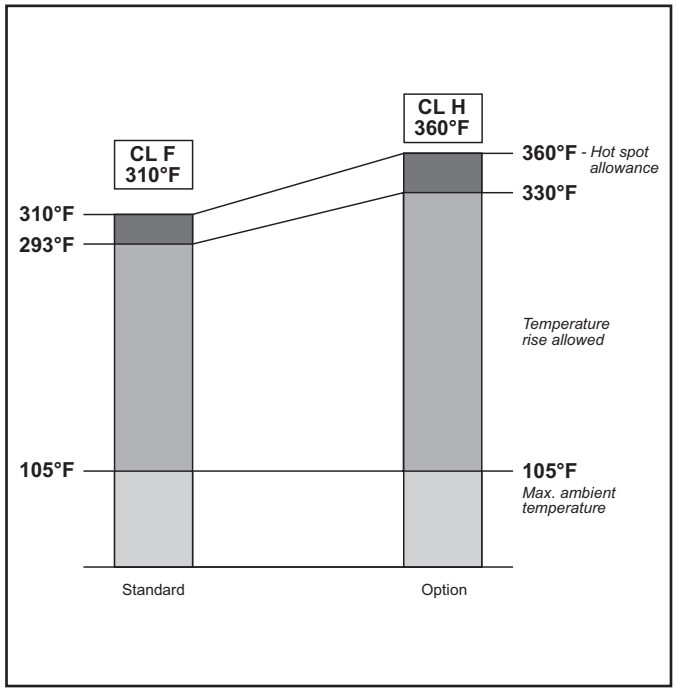
CL F

Bonfiglioli motors use class **F** insulating materials (enamelled wire, insulators, impregnation resins) as compared to the standard motor.

CL H

Motors manufactured in higher insulation class **H** are available at request.
In standard motors, the stator windings temperature rise normally stays below the 80 K limit corresponding to class B over temperature.
A careful selection of insulating components makes the motors compatible with tropical climates and normal vibration.
For applications involving the presence of aggressive chemicals or high humidity, contact Bonfiglioli Engineering for assistance with product selection.

(C13)



Types of duty

Unless otherwise indicated, the power rating of motors specified in the catalogue refers to continuous duty S1.
For motors used under conditions other than S1, the type of duty required is definied with reference to CEI EN 60034-1 Standards.
In particular, for intermittent duties type S2 and S3, power can be adjusted with respect to continuous duty through multipliers listed in table (C14) applicable to single speed motors.

$$f_m = \frac{P\ (S2...S8)}{P\ (S1)}$$

(C14)

	Duty						
	S2			S3 *			S4 - S8
	Cycle duration (min)			Cyclic duration factor (I)			Consult factory
	10	30	60	25%	40%	60%	
f_m	1.35	1.15	1.05	1.25	1.15	1.1	

* Cycle duration must, in any event, be equal to or less than 10 minutes; if this time is exceeded, please contact our Technical Service.

Cycle duration factor:

$$I = \frac{t_f}{t_f + t_r} \times 100$$

t_f = operating time at constant load
t_r = rest time

Limited duration duty S2

This type of duty is characterized by operation at constant load for a limited time, which is shorter than the time required to reach thermal equilibrium, followed by a rest period of sufficient duration to restore ambient temperature in the motor.

Periodical intermittent duty S3

This type of duty is characterized by a sequence of identical operation cycles, each including a constant load operation period and a rest period.
For this type of duty, the starting current does not significantly influence overtemperature.

Inverter-driven motors

The electric motors of series BN and M may be used in combination with PWM inverters with rated voltage at transformer input up to 500 V.Standard motors use a phase insulating system with separators, class 2 enam-

elled wire and class H impregnation resins (1600V peak-to-peak voltage pulse capacity and rise edge t_s > 0.1µs at motor terminals). Table (C15) shows the typical torque/speed curves referred to S1 duty for motors with base frequency f_b = 60 Hz.
Because ventilation is somewhat impaired in operation at lower frequencies (approx. 30 Hz), standard motors with incorporated fan (IC411) require adequate torque derating or - alternately - the addition of a separate supply fan cooling.
Above base frequency, upon reaching the maximum output voltage of the inverter, the motor enters a steady-power field of operation, and shaft torque drops with ratio (f/f_b).
As motor maximum torque decreases with $(f/f_b)^2$, the allowed overloading must be reduced progressively.

(C15)

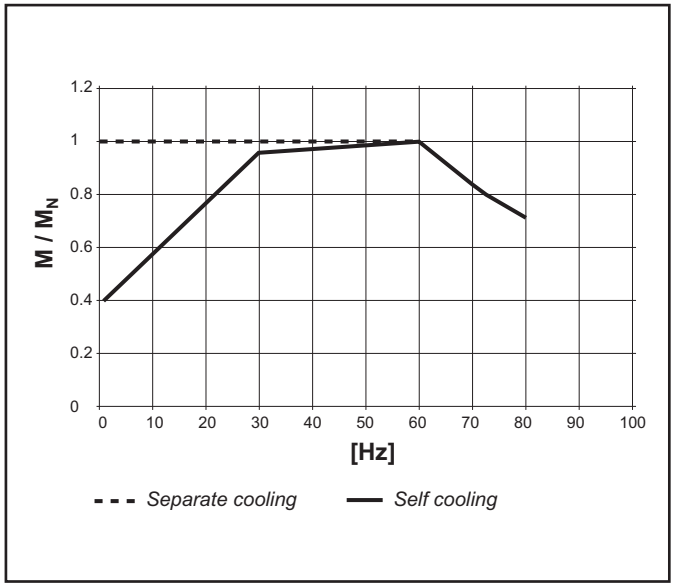


Table (C16) reports the mechanical limit speed for motor operation above rated frequency:

(C16)

		n [rpm]		
		2p	4p	6p
≤ **BN 112**	**M05…M3**	5200	4000	3000
BN 132...BN 200L	**M4, M5**	4500	4000	3000

Above rated speed, motors generate increased mechanical vibration and fan noise. Class R rotor balancing is highly recommended in these applications. Installing a separate supply fan cooling may also be advisable.

Indipendent fan cooling and brake (if fitted) must always be connected direct to mains power supply.

Permissible starts per hour Z

The rating charts of brakemotors lend the permitted number of starts Z_0, based on 50% intermittence and for unloaded operation.
The catalogue value represents the maximum number of starts per hour for the motor without exceeding the rated temperature for the insulation class F.
To give a practical example for an application characterized by inertia J_c, drawing power P_r and requiring mean torque at start-up T_L the actual number of starts per hour for the motor can be calculated approximately through the following equation:

$$Z = \frac{Z_0 \times K_c \times K_d}{K_J}$$

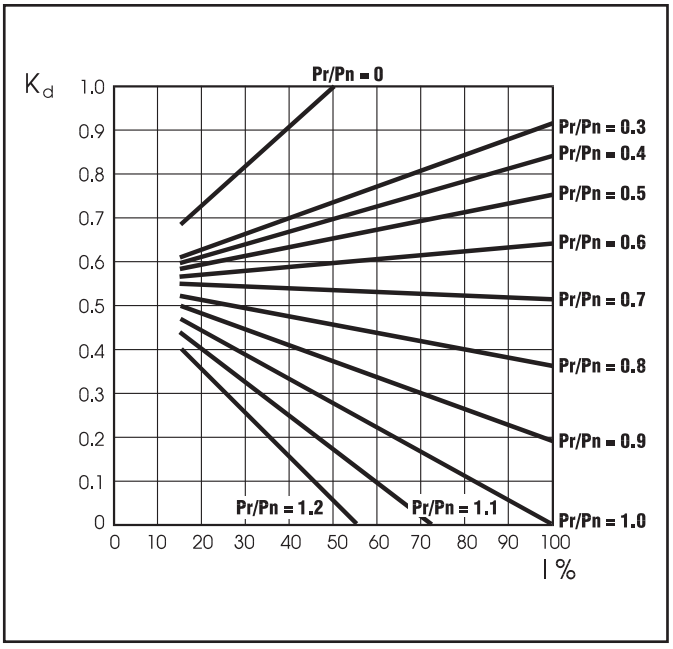
where:

$K_J = \frac{J_m + J_c}{J_m}$ =inertia factor

$K_c = \frac{T_a - T_L}{T_a}$ = torque factor

K_d = load factor (see table C16)

(C17)



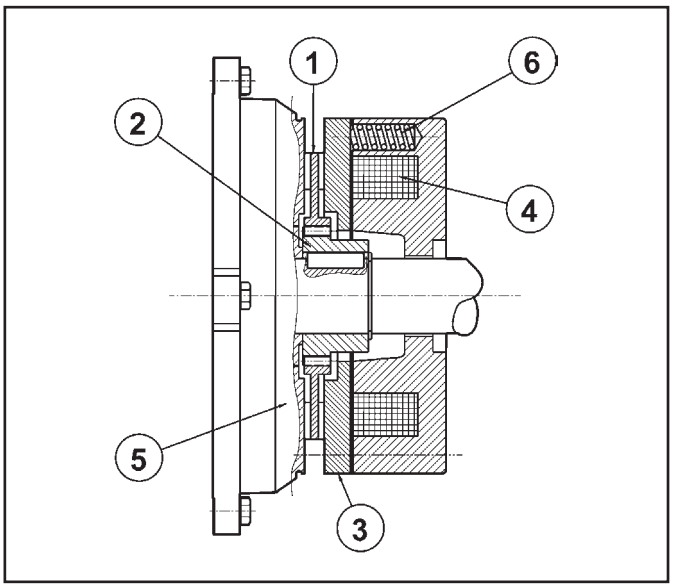
If actual starts per hour is within permitted value (Z) it may be worth checking that braking work is compatible with brake (thermal) capacity W_{max} also given in table (C22) and dependent on the number of switches (s/h).

3.5 BRAKE MOTORS

Operation

Versions with incorporated brake use spring-applied DC (FD option) or AC (FA option) brakes.
All brakes are designed to provide fail-safe operation, meaning that they are applied by spring-action in the event of a power failure.

(C18)



Key:
① brake disc
② disc carrier
③ pressure plate
④ brake coil
⑤ motor rear shield
⑥ brake springs

When power is disconnected, the springs push the armature plate against the brake disc. The disc becomes trapped between the armature plate and motor shield and stops the shaft from rotating.
When the coil is energized, a magnetic field attracts the armature plate, so that the brake disc – which is integral with the motor shaft – is released.

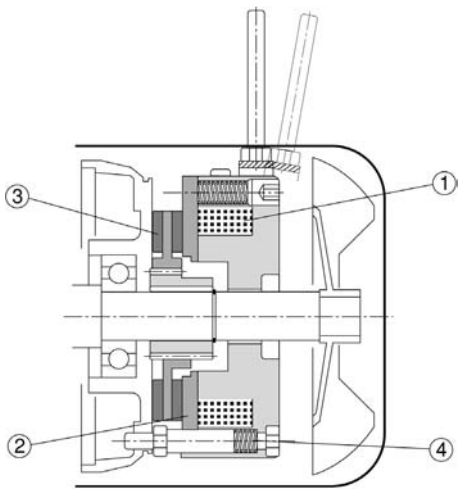
Most significant features

- High braking torques (normally $T_b \approx 2\ T_n$), braking torque adjustment.
- Steel brake disc with double friction lining (low-wear, asbestos-free lining).
- Hexagonal socket head on motor shaft end (N.D.E.) for manual rotation (not compatible with options PS, RC, TC, U1, U2, EN1, EN2, EN3).
- Manual release lever.
- Corrosion-proof treatment on all brake surfaces.
- Class F insulation

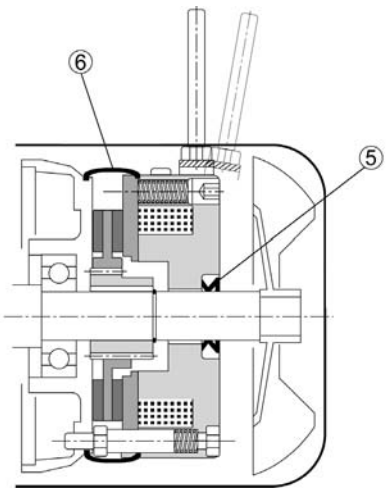
3.6 DC BRAKE MOTORS TYPE BN_FD

Frame sizes: BN 63 … BN 200L

(C19)



IP 54 (DEFAULT FOR BRAKE MOTORS)



IP 55 (OPTIONAL ON BRAKE MOTORS)

Direct current electromagnetic brake bolted onto motor shield. Preloading springs provide axial positioning of magnet body.
Brake disc slides axially on steel hub fitted onto motor shaft with anti-vibration spring.
Brake torque factory setting is indicated in the corresponding motor rating charts.
Braking torque may be modified by changing the type and/or number of springs.
At request, motors may be equipped with manual release lever with automatic return (**R**) or system for holding brake in the released position (**RM**).

See table (C33) for available release lever locations.
FD brakes ensure excellent dynamic performance with low noise. DC brake operating characteristics may be optimized to meet application requirements by choosing from the various rectifier/power supply and wiring connection options available.

Protection class

Standard protection class is IP54.
Brake motor FD is also available in protection class **IP 55**, which incorporates the following variants:

① V-ring at N.D.E. of motor shaft

② dust and water-proof rubber boot

③ stainless steel shim placed between motor shield and brake disc

④ stainless steel hub

⑤ stainless steel brake disc

FD brake power supply

A rectifier housed into the terminal box feeds the DC brake coil. Wiring connection across rectifier and brake coil is performed at the factory.
On single-speed motors, rectifier is pre-wired to the motor terminal board.
Rectifier standard power supply voltage V_B is as indicated in the following table (C20), regardless of mains frequency:

(C20)

2, 4, 6 P					**1 speed**
		**BN_FD / M_FD** V_{mot} ± 10% 3 ~	V_B ± 10% 1 ~	brake connected to terminal board power supply	separate power supply
BN 63…BN 200	**M05...M5**	230/460 V – 60 Hz	230 V	standard	specify **V_B SA** or **V_B SD**

The diode half-wave rectifier ($V_{dc} \approx 0{,}45 \times V_{ac}$) is available in versions **NB**, **SB**, **NBR** e **SBR**, as detailed in the table (C21). Rectifier **SB** with electronic energizing control over-energizes the electromagnet upon power-up to cut brake release response time and then switches to normal half-wave operation once the brake has been released.

Use of the **SB** rectifier is mandatory in the event of:

- high number of operations per hour
- reduced brake release response time
- brake is exposed to extreme thermal stress

Rectifiers **NBR** or **SBR** are available for applications requiring quick brake release response.

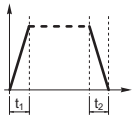
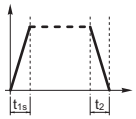
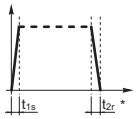
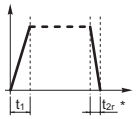
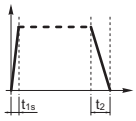
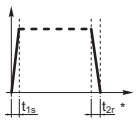
These rectifiers complement the **NB** and **SB** types as their electronic circuit incorporates a static switch that de-energizes the brake quickly in the event voltage is missing.

This arrangement ensures short brake release response time with no need for additional external wiring and contacts.

Optimum performance of rectifiers **NBR** and **SBR** is achieved with separate brake power supply.

Available voltages: 230V ± 10%.

(C21)

		Brake	~/⎓ Standard	At request
BN 63	**M05**	**FD 02**	**NB** 	**SB,** 
BN 71	**M1**	**FD 03**		
		FD 53		**SBR,** 
BN 80	**M2**	**FD 04**		
BN 90S	**—**	**FD 14**		
BN 90L	**—**	**FD 05**		**NBR** 
BN 100	**M3**	**FD 15**		
—		**FD 55**	**SB** 	**SBR** 
BN 112	**—**	**FD 06S**		
BN 132...160MR	**M4**	**FD 56**		
BN 160L - BN 180M	**M5**	**FD 06**		
BN 180L - NM 200L	**—**	**FD 07**		

(*) $t_{2c} < t_{2r} < t_2$

FD brake technical specifications

The table (C22) shows the technical specifications of DC brakes type FD.

(C22)

Brake	Brake torque T_b [lb·in] Springs			Release t_1	Release t_{1s}	Braking t_2	Braking t_{2c}	W_{max} per each brake operation [lb·ft]			W	P
	6	4	2	[ms]	[ms]	[ms]	[ms]	10 s/h	100 s/h	1000 s/h	[lb·ftx10^6]	[W]
FD02	—	31	15	30	15	80	9	3300	1050	130	11	17
FD03	44	31	15	50	20	100	12	5200	1400	170	18	24
FD53	66	44	22	60	30	100	12					
FD04	133	88	44	80	35	140	15	7400	2300	260	27	33
FD14												
FD05	354	230	115	130	65	170	20	13300	3300	370	37	45
FD15	354	230	115	130	65	170	20					
FD55	487	327	159	—	65	170	20					
FD06S	831	354	177	—	80	220	25	15000	3500	400	52	55
FD56	—	664	327	—	90	150	20	21500	5500	600	59	65
FD06		885	443		100	150	20					
FD07	1328	885	443	—	120	200	25	29500	6900	750	96	65
FD08*	2200	1770	1500	—	140	350	30	44500	10300	1100	170	100
FD09**	3540	2650	1770	—	200	450	40	51500	7600	1250	170	120

∗ brake torque values obtained with 9, 7 and 6 springs,

∗∗ brake torque values obtained with 12, 9 and 6 springs, respectively

Key:

t_1 = brake release time with half-wave rectifier

t_{1s} = brake release time with over-energizing rectifier

t_2 = brake engagement time with AC line disconnect and separate power supply

t_{2c} = brake engagement time with AC and DC line disconnect.
Values for t_1, t_{1s}, t_2, t_{2c} indicated in the tab. (C23) are referred to brake set at maximum torque, medium air gap and rated voltage

W_{max} = max energy per each brake operation

W = braking energy between two successive air gap adjustments

P_b = brake power absorption at normal ambient temperature

T_b = static braking torque (±15%)

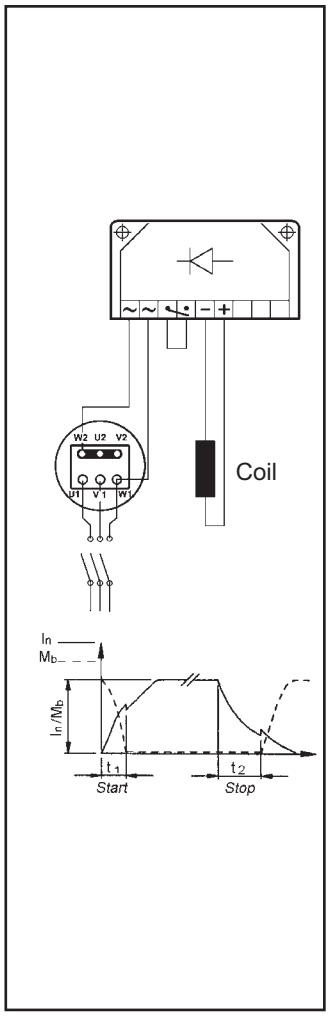
[s/h] = starts per hour

FD brake connections

On standard single-speed motors, the rectifier is connected to the motor terminal board at the factory.

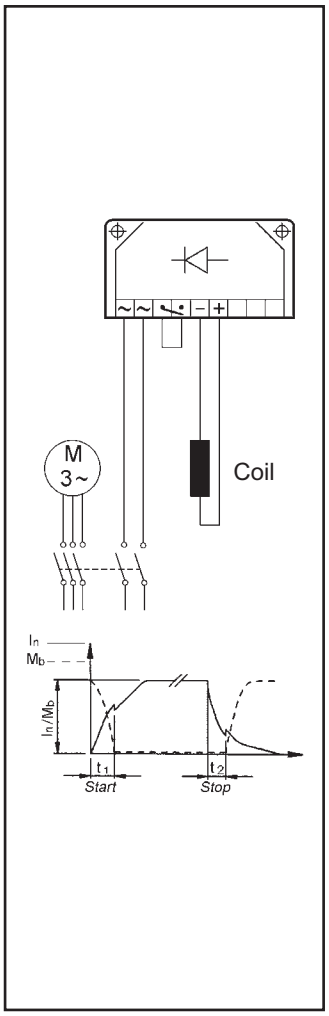
Because the load is of the inductive type, brake control and DC line switch must use contacts from the usage class AC-3 to IEC 60947-4-1.

(C23)



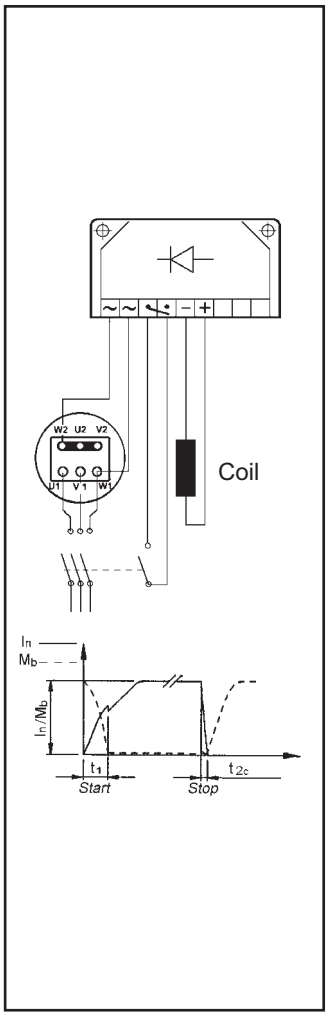
Brake supply from motor terminals and A.C. line disconnect. Longer stop time t_2, dependent on motor time constants. Use when no particular braking performance is required.

(C24)



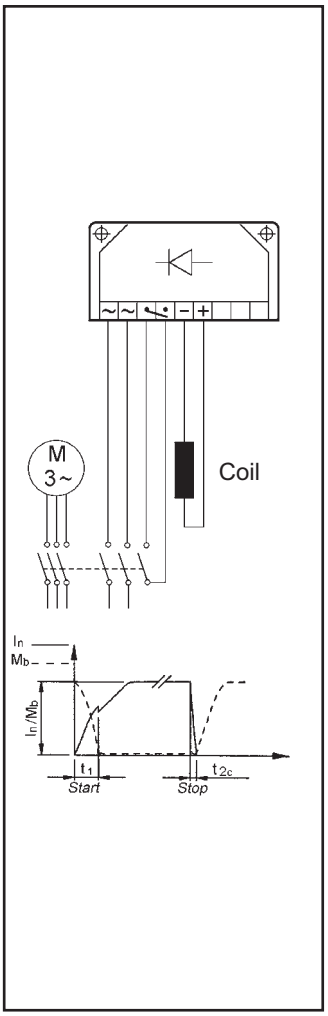
Separate power supply to brake coil and A.C. line disconnect.
Stopping time is independent on motor. See table C22

(C25)



Brake coil energized from motor terminals, both A.C. and D.C. line switch off.
Rapid stopping time, t_{2c}. See table C22

(C26)

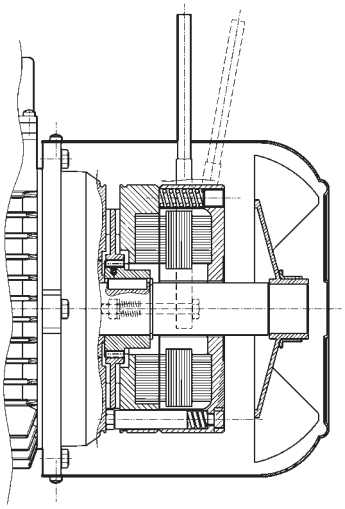


Separate power supply to brake coil. Both A.C. and D.C. line disconnect.
Rapid stopping time to t_{2c} value, see table C22

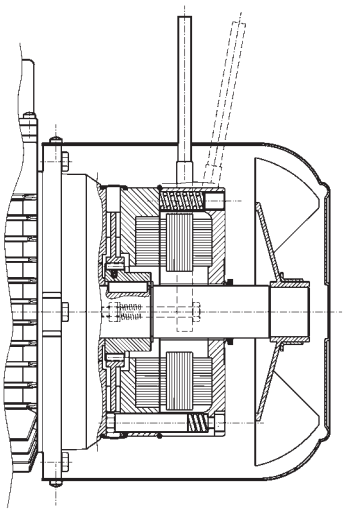
3.7 AC BRAKE MOTORS TYPE BN_FA

Frame sizes: BN 63 … BN 180M

(C27)



IP 54



IP 55

Electromagnetic brake operates from three-phase **alternated current** power supply and is bolted onto motor rear shield. Preloaded springs provide axial positioning of the magnet body.
Steel brake disc slides axially on steel hub fitted onto motor shaft with anti-vibration spring.
Brake torque factory setting is indicated in the corresponding motor rating charts.
Spring preloading screws provide stepless braking torque adjustment.
Torque adjustment range is 30% $T_{bMAX} < T_b < T_{bMAX}$ (where T_{bMAX} is maximum braking torque as shown in tab. (C29).
Thanks to their high dynamic characteristics, FA brakes are ideal for heavy-duty applications as well as applications requiring frequent stop/starts and fast response time.

Motors may be equipped with manual release lever with automatic return (**R**) at request. See table (C33) for available lever locations.

Degree of protection

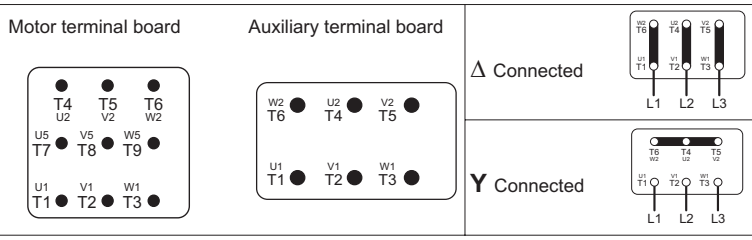
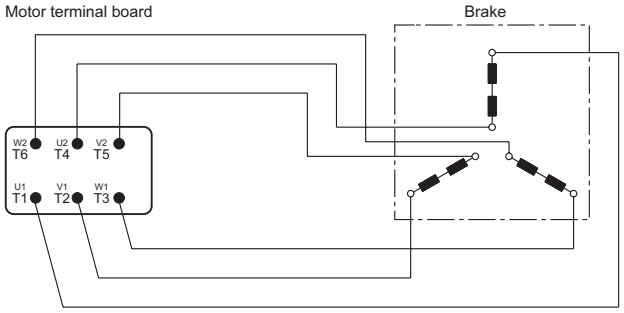
Standard degree of protection is IP54.
Brake motor BN_FA is also available with degree of protection **IP 55**, which incorporates the following variants:

- V-ring at N.D.E. of motor shaft
- water-proof rubber grommet
- O-ring

FA brake power supply

Depending on motor voltage the brake may require the supply voltage to be specified, or not, as detailed in the diagram below. Special voltages in the 24...690 V range may be available on request.

(C28)

Motor voltage - V_{mot}	Brake voltage - V_B	Specify	Brake wiring scherme
230/460 V YY/Y 60 Hz	230 Δ - 60 Hz	**230SA**	
	460 Y - 60 Hz	**460SA**	
330/575 V Δ/Y 60 Hz	330/575 V Δ/Y 60 Hz	not required	

Technical specifications of FA brakes

(C29)

Brake	Brake torque T_b [lb·in]	Release t_1 [ms]	Braking t_2 [ms]	W_{max} [lb·ft] 10 s/h	W_{max} [lb·ft] 100 s/h	W_{max} [lb·ft] 1000 s/h	W [lb·ftx10^6]	P_b [VA]
FA 02	31	4	20	4500	1400	180	15	60
FA 03	66	4	40	7000	1900	230	25	80
FA 04 / **FA 14**	133	6	60	10000	3100	350	30	110
FA 05 / **FA 15**	354	8	90	18000	4500	500	50	250
FA 06S	530	16	120	20000	4800	550	70	470
FA 06	663	16	140	29000	7400	800	80	550
FA 07	1328	16	180	40000	9300	1000	130	600
FA 08	2200	20	200	60000	14000	1500	230	1200

Key:

T_b = max static braking torque (±15%)

t_1 = brake release time

t_2 = brake engagement time

W_{max} = max energy per brake operation (brake thermal capacity)

W = braking energy between two successive air gap adjustments

P_b = power drawn by brake at 20° (50 Hz)

[s/h] = starts per hour

NOTE

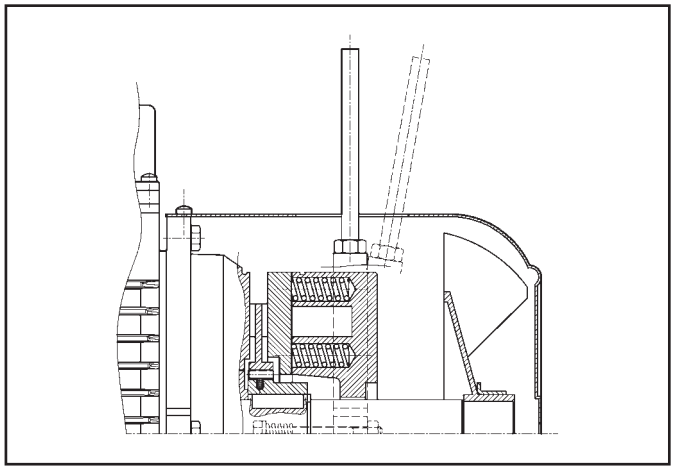
Values t_1 and t_2 in the table refer to a brake set at rated torque, medium air gap and rated voltage.

3.8 - BRAKE RELEASE SYSTEMS

Spring-applied brakes type **FD** and **FA** may be equipped with optional manual release devices. These are typically used for manually releasing the brake before servicing any machine or plant parts operated by the motor.

R

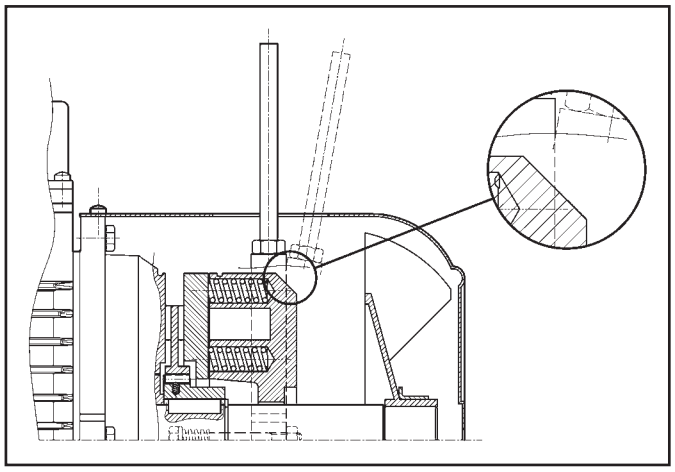
(C30)



A return spring brings the release lever back in the original position.

RM

(C31)



On motors type BN_FD, it the option RM is specified, the release lever may be locked in the ”release” position by tightening the lever until lever end becomes engaged with a brake housing projection.

The availability for the two lever options is charted here below:

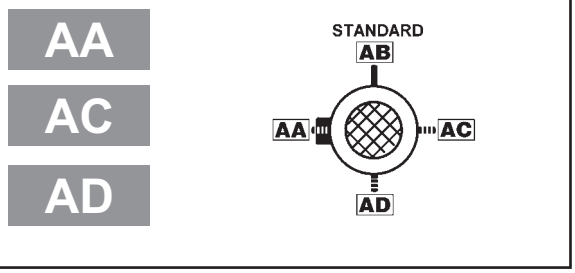
(C32)

	R	RM
BN_FD	BN 63...BN 200	BN 63...BN 160MR
M_FD	M 05...M 5	M 05...M 4LC
BN_FA	BN 63...BN 180M	n.a.
M_FA	M 05...M 5	

Release lever arrangement

Unless otherwise specified, the release lever is located 90° away from the terminal box – identified by letters [**AB**] in the diagram below – in a clockwise direction on both options **R** and **RM**.
Alternative lever positions [**AA**], [**AC**] and [**AD**] are also possible when the corresponding option is specified:

(C33)



Fly-wheel data (F1)

The table below shows values of weight and inertia of flywheel (option F1). Overall dimensions of motors remain unchanged. The option is available for DC brake-motors only.

(C34)

Main data for flywheel			
		Fly-wheel weight [lbs]	Fly-wheel inertia [lb • ft^2] x 10^{-5}
BN 63	**M05**	0.31	2.7
BN 71	**M1**	0.51	5.7
BN 80	**M2**	0.76	11.4
BN 90 **BN 90 L**	**–**	1.14	22.3
BN 100	**M3**	1.58	35.4
BN 112	**–**	2.19	62.4
BN 132 S **BN 132 M**	**M4**	2.81	108.6

3.9 - OPTIONS

Thermal protective devices

In addition to the standard protection provided by the magneto-thermal device, motors can be supplied with built-in thermal probes to protect the winding against overheating caused, by insufficient ventilation or by an intermittent duty.
This additional protection should always be specified for servoventilated motors (IC416).

E3

Thermistors

These are semi-conductors having rapid resistance variation when they are close to the rated switch off temperature.
Variations of the R = f(T) characteristic are specified under DIN 44081, IEC 34-11 Standards.
These elements feature several advantages: compact dimensions, rapid response time and, being contact-free, absolutely no wear.
Positive temperature coefficient thermistors are normally used (also known as PTC “cold conductor resistors”).
Unlike bimetallic thermostates, they cannot directly intervene on currents of energizing coils, and must therefore be connected to a special control unit (triggering apparatus) to be interfaced with the external connections.
Thus protected, three PTCs connected in series are installed in the winding, the terminals of which are located on the auxiliary terminal-board.

Bimetallic thermostates

These types of protective devices house a bimetal disk. When the rated switch off temperature is reached, the disk switches the contacts from their initial rest position.
As temperature falls, the disk and the contacts automatically return to rest position.
Three bimetallic thermostates connected in series are usually employed, with normally closed contacts. The terminals are located in an auxiliary terminal-board.

H1

Anti-condensation heaters

Where an application involves high humidity or extreme temperature fluctuation, motors may be equipped with an anti-condensate heater.
A single-phase power supply is available in the auxiliary terminal board inside the main terminal box. Values for the absorbed power are listed here below:

(C35)

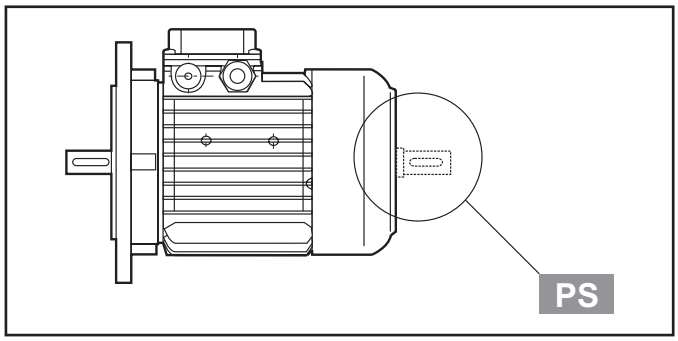
		**H1**
		1~ 230V ± 10%
		P [W]
BN 56...BN 80	**M0...M2**	10
BN 90...BN 160MR	**M3 - M4**	25
BN 160M...BN 180M	**M5**	50
BN 180L...BN 200L	**–**	65

Warning!
Always disconnect power supply to the anti-condensante heater before operating the motor.

PS

Second shaft extension

(C36)



This option is not compatible with variants RC, TC, U1, U2, EN1, EN2, EN3. For shaft dimensions please see motor dimensions tables.

AL AR

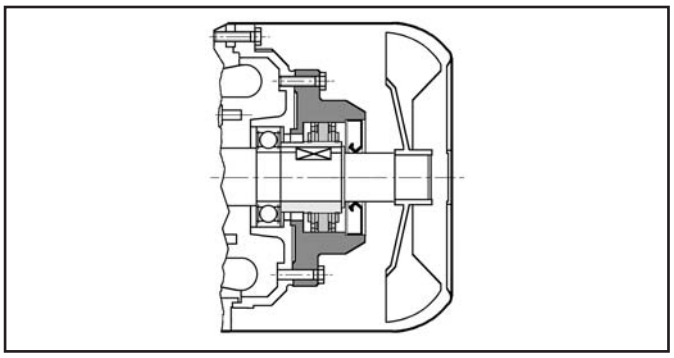
Backstop device

For applications where backdriving must be avoided, motors equipped with an anti run-back device can be used (available for the M series only).
While allowing rotation in the direction required, this device operates instantaneously in case of a power failure, preventing the shaft from running back.
The anti run-back device is life lubricated with special grease for this specific application.
When ordering, customers should indicate the required rotation direction, AL or AR.
Never use the anti run-back device to prevent reverse rotation caused by faulty electrical connection.
Table (C37) shows rated and maximum locking torques for the anti run-back devices.
A diagram of the device can be seen in Table (C38).
Overall dimensions are same as the corresponding brake motor.

(C37)

	Rated locking torque [lb·in]	Max. locking torque [lb·in]	Release speed [rpm]
M1	53	90	750
M2	140	240	650
M3	480	815	520
M4	970	1815	430

(C38)



Ventilation

Motors are cooled through outer air blow (IC 411 according to CEI EN 60034-6) and are equipped with a plastic radial fan, which operates in both directions.
Ensure that fan cover is installed at a suitable distance from the closest wall so to allow air circulation and servicing of motor and brake, if fitted.
On request, motors can be supplied with independently power-supplied forced ventilation system starting from BN 71 or M1 size.
Motor is cooled by an axial fan with independent power supply and fitted on the fan cover (IC 416 cooling system).
This option comes handy for inverter driven motors so that constant torque operation is possible even at low speed or when high starting frequencies are needed.
Motors with rear shaft projection (PS option) are excluded.

(C39)

Power supply					
		**V a.c.** ± 10%	**Hz**	**P** [W]	**I** [A]
BN 71	**M1**	1~ 230	50 / 60	22	0.14
BN 80	**M2**			22	0.14
BN 90	**–**			40	0.25
BN 100 (*)	**M3**			50	0.25
BN 112	**–**	3~ 230 Δ / 400Y		50	0.26 / 0.15
BN 132S	**M4S**			110	0.38 / 0.22
BN 132M... BN160MR	**M4L**				
BN 160... BN 180M	**M5**	3~460	60	210	1.25 / 0.72

This variant features two options, designated **U1** and **U2**, having the same length overall.
Longer side of fan cover (ΔL) is specified for both models in the table below. Overall dimension can be reckoned from motor size table.

(C40)

Extra length for servoventilated motors			[in]
		ΔL_1 add for standard motor	ΔL_2 add for brakemotor
BN 71	**M1**	3.66	1.26
BN 80	**M2**	5.00	2.17
BN 90	**–**	5.16	1.89
BN 100	**M3**	4.69	1.10
BN 112	**–**	5.12	1.22
BN 132S	**M4S**	6.34	2.01
BN 132M	**M4L**	6.34	2.01

U1

Fan wiring terminals are housed in a separate terminal box.
In brake motors of size BN 71...BN 160MR, with **U1** model, the release lever cannot be positioned to AA.

U2

Fan terminals are wired in the motor terminal box.
The U2 option does not apply to motors BN 160 through BN 200L, with the only exception of motor BN 160MR for which the option is available instead and to motors with option CUS (compliant to norms CSA and UL)..

(C41)

(*)			**V a.c.** ± 10%	**Hz**	**P** [W]	**I** [A]
	BN 100_U2	**M3**	3~ 230 Δ / 400Y	50/60	40	0.24 / 0.14

RC

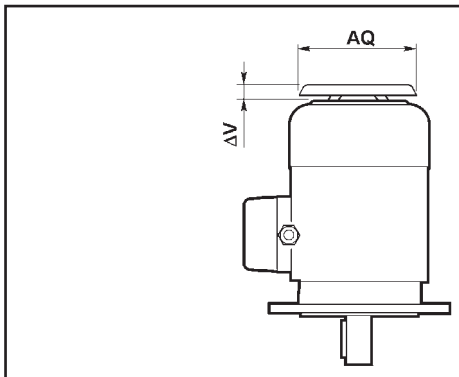
Drip cover

The drip cover protects the motor from dripping and avoids the ingress of solid bodies. It is recommended when motor is installed in a vertical position with the shaft downwards.
Relevant dimensions are indicated in the table (C42).
The drip cover is not compatible with variants PS, EN1, EN2, EN3.

(C42)

		**AQ** [in]	**ΔV** [in]
BN 63	**M05**	4.65	0.95
BN 71	**M1**	5.28	1.06
BN 80	**M2**	5.98	0.98
BN 90	**–**	6.61	1.18
BN 100	**M3**	7.48	1.10
BN 112	**–**	8.31	1.26
BN 132...BN 160MR	**M4**	10.00	1.26
BN 160M...BN 180M	**M5**	11.89	1.42
BN 180L...BN 200L	**–**	13.39	1.42

(C43)



TC

Textile canopy

Option TC is a cover variant for textile industry environments, where lint may obstruct the fan grid and prevent a regular flow of cooling air.

This option is not compatible with variants EN1, EN2, EN3. Overall dimensions are the same as drip cover type RC.

Feedback units

Motors may be combined with three different types of encoders to achieve feedback circuits.
Configurations with double-extended shaft (PS) and rain canopy (RC, TC) are not compatible with the installation of the encoder.

EN1

Incremental encoder, V_{IN}= 5 V, line-driver output RS 422.

EN2

Incremental encoder, V_{IN}=10-30 V, line-driver output RS 422.

EN3

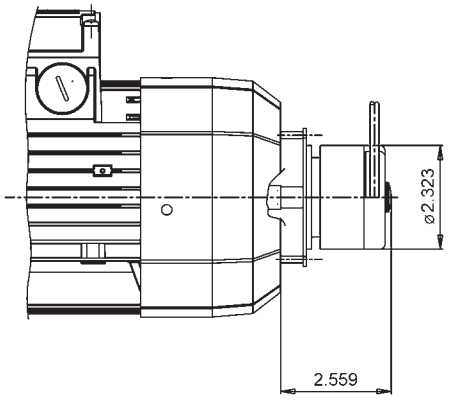
Incremental encoder, V_{IN}=12-30 V, push-pull output 12-30 V.

(C44)

		EN1	EN2	EN3
Interface		RS 422	RS 422	push-pull
Power supply voltage	[V]	4...6	10...30	12...30
Output voltage	[V]	5	5	12...30
No-load operating current	[mA]	120	100	100
No. of pulses per revolution		1024		
No. of signals		6 (A, B, C + inverted signals)		
Max. output frequency	[kHz]	300	300	200
Max. speed	[rpm]	600 (900 rpm x 10s)		
Temperature range	[°C]	-20...+70		
Protection class		IP 65		

(C45)

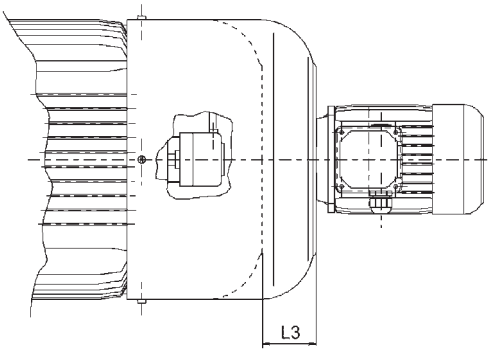
EN1, EN2, EN3



BN 63...BN 200L	**M05...M5**
BN 63_FD...BN 200L_FD	**M05_FD...M5_FD**
BN 63_FA...BN 200L_FA	**M05_FA...M5_FA**

(C46)

EN_ + U1



		L3
BN 160M...BN 180M	**M5**	2.835
BN 180L...BN 200L	**-**	3.228
BN 160M_FD...BN 180M_FD	**M5_FD**	1.378
BN 180L_FD...BN 200L_FD	**-**	1.614

If the encoder device (options EN1, EN2, EN3) is specified on motors BN71...BN160MR and M1...M4, along with the independent fan cooling (options U1, U2), the extra length of motor is coincident with that of the correspondent U1 and U2 execution.

3.10 COMPACT MOTOR RATING CHARTS

2 POLE - 3600 rpm - S1

60 Hz

P_n			n	T_n	η	cosφ	I_n at 460V	$\frac{I_s}{I_n}$	$\frac{T_s}{T_n}$	$\frac{T_k}{T_n}$	J_m lb·ft²		Weight lbs	Brake type	T_b	Z_o 1/h rectifier		Weight lbs	Brake type	T_b	Z_o 1/h	Weight lbs
hp	kW		rpm	lb·in	%		A				1)	2)	1)		lb·in	**NB**	**SB**	2)		lb·in		2)
0.25	0.18	**M 05A 2**	3380	4.7	60	0.74	0.53	4.1	3.0	3.2	0.0048	0.0062	7.1	**FD 02**	15	2700	3300	10.8	**FA 02**	15	3300	10.4
0.33	0.25	**M 05B 2**	3400	6.1	65	0.75	0.63	4.9	3.2	3.3	0.0055	0.0071	7.9	**FD 02**	15	2700	3300	11.7	**FA 02**	15	3300	11.2
0.5	0.37	**M 05C 2**	3420	9.2	69	0.76	0.89	5.5	3.3	3.5	0.0062	0.0078	10.6	**FD 02**	30	2500	3000	14.3	**FA 02**	30	3000	13.9
0.75	0.55	**M 1SD 2**	3450	13.7	76	0.75	1.23	6.2	3.4	3.9	0.0097	0.0126	12.8	**FD 03**	44	2200	2700	18.7	**FA 03**	44	2700	18.1
1	0.75	**M 1LA 2**	3440	18.3	77	0.75	1.62	6.2	3.8	4.1	0.0119	0.0145	15.2	**FD 03**	44	1500	2100	21	**FA 03**	44	2100	21
1.5	1.1	**M 2SA 2**	3430	27.6	77	0.76	2.40	6.2	3.8	3.9	0.0214	0.0252	19.4	**FD 04**	88	1200	1600	28	**FA 04**	88	1600	28
2	1.5	**M 2SB 2**	3420	36.8	80	0.81	2.89	6.0	3.3	3.5	0.0271	0.0309	23	**FD 04**	133	1000	1300	32	**FA 04**	133	1300	32
3	2.2	**M 3SA 2**	3430	55	81	0.83	4.2	6.0	2.4	2.5	0.0570	0.0665	34	**FD 15**	230	800	1000	49	**FA 15**	230	1000	51
5	3.7	**M 3LB 2**	3490	92	84	0.83	6.7	6.7	2.9	3.2	0.0926	0.102	49	**FD 15**	354	360	500	62	**FA 15**	354	500	64
7.5	5.5	**M 4SA 2**	3490	135	83	0.86	9.8	6.4	2.7	3.0	0.240	0.266	72	**FD 06**	440		400	101	**FA 06**	440	400	104
10	7.5	**M 4SB 2**	3490	181	82	0.88	13.0	6.2	2.8	3.2	0.318	0.344	88	**FD 06**	440		350	117	**FA 06**	440	350	143
15	11	**M 4LC 2**	3510	271	87	0.88	18.3	6.9	2.7	3.0	0.499		132									
20	15	**M 5SB 2**	3510	359	86	0.90	24.2	6.0	2.5	2.7	0.808		154									
25	18.5	**M 5SC 2**	3520	449	88	0.91	29.2	6.9	2.8	3.0	0.998		183									
30	22	**M 5LA 2**	3520	537	88	0.91	35.1	6.9	2.8	3.1	1.164		209									

1) without brake
2) with brake

4 POLE - 1800 rpm - S1

60 Hz

P_n			n	T_n	η	cosφ	I_n at 460V	$\frac{I_s}{I_n}$	$\frac{T_s}{T_n}$	$\frac{T_k}{T_n}$	J_m lb·ft²		Weight lbs	Brake type	T_b	Z_o 1/h rectifier		Weight lbs	Brake type	T_b	Z_o 1/h	Weight lbs
hp	kW		rpm	lb·in	%		A				1)	2)	1)		lb·in	**NB**	**SB**	2)		lb·in		2)
0.12	0.09	**M 0B 4**	1670	4.5	59	0.52	0.37	2.8	2.9	2.9	0.0036		6.4									
0.16	0.12	**M 05A 4**	1690	6.0	60	0.57	0.44	3.3	2.4	2.5	0.0048	0.0062	7.1	**FD 02**	15	7000	9000	10.8	**FA 02**	15	9000	10.4
0.25	0.18	**M 05B 4**	1670	9.4	58	0.60	0.65	3.2	2.8	2.9	0.0055	0.0071	7.9	**FD 02**	30	7000	9000	11.7	**FA 02**	30	9000	11.2
0.33	0.25	**M 05C 4**	1670	12.4	64	0.64	0.77	3.3	2.5	2.6	0.0078	0.0093	10.6	**FD 02**	30	6000	8000	14.3	**FA 02**	30	8000	13.9
0.50	0.37	**M 1SD 4**	1700	18.5	66	0.73	0.96	4.5	2.6	2.8	0.0164	0.0190	12.1	**FD 03**	44	4800	7500	18.1	**FA 03**	44	7500	17.4
0.75	0.55	**M 1LA 4**	1710	27.6	72	0.70	1.37	4.9	3.0	3.1	0.0216	0.0242	15.2	**FD 53**	66	3400	7000	21	**FA 53**	66	7000	21
1	0.75	**M 2SA 4**	1720	36.6	78	0.75	1.61	6.2	3.4	3.5	0.0482	0.0523	20	**FD 04**	133	3000	6000	29	**FA 04**	133	6000	29
1.5	1.1	**M 2SB 4**	1720	55	78	0.76	2.33	6.3	3.4	3.5	0.0594	0.0641	23	**FD 04**	133	2000	4200	32	**FA 04**	133	4200	32
2	1.5	**M 3SA 4**	1720	73	82	0.73	3.15	5.7	2.9	3.3	0.0808	0.0903	34	**FD 15**	230	1500	3000	49	**FA 15**	230	3000	51
3	2.2	**M 3LA 4**	1720	110	81	0.73	4.67	5.5	2.7	2.9	0.0960	0.105	37	**FD 15**	354	1000	2700	53	**FA 15**	354	2700	53
5	3.7	**M 3LC 4**	1730	182	84	0.74	7.5	5.6	2.8	3.1	0.145	0.154	51	**FD 55**	480		1200	64	**FA 55**	480	1200	66
7.5	5.5	**M 4SA 4**	1730	273	84	0.84	9.8	6.3	2.9	3.1	0.506	0.530	93	**FD 56**	664		850	121	**FA 06**	664	850	124
10	7.5	**M 4LA 4**	1740	362	85	0.84	13.2	6.1	2.9	3.0	0.641	0.665	112	**FD 06**	885		700	141	**FA 06**	885	700	143
15	11	**M 4LC 4**	1740	543	88	0.81	19.4	6.5	3.1	3.2	0.855	0.907	143	**FD 07**	1328		600	179	**FA 07**	1328	600	183
20	15	**M 5SB 4**	1750	720	90	0.84	24.9	5.8	2.3	2.7	1.544	1.781	187	**FD 08**	1770		400	254	**FA 08**	1770	400	251
25	18.5	**M 5LA 4**	1760	895	90	0.83	31.1	5.8	2.5	3.1	1.876	2.054	223	**FD 08**	2210		300	289	**FA 08**	2210	300	287

1) without brake
2) with brake

6 POLE - 1200 rpm - S1

60 Hz

P_n			n	T_n	η	cosφ	I_n at 460V	$\frac{I_s}{I_n}$	$\frac{T_s}{T_n}$	$\frac{T_k}{T_n}$	J_m lb·ft²		Weight lbs	Brake type	T_b	Z_o 1/h rectifier		Weight lbs	Brake type	T_b	Z_o 1/h	Weight lbs
hp	kW		rpm	lb·in	%		A				1)	2)	1)		lb·in	**NB**	**SB**	2)		lb·in		2)
0.12	0.09	**M 05A 6**	1100	6.9	47	0.46	0.52	2.4	2.9	2.9	0.0081	0.0095	9.5	**FD 02**	30	7000	10000	13.2	**FA 02**	30	10000	12.8
0.16	0.12	**M 05B 6**	1100	9.2	49	0.54	0.57	2.3	2.4	2.4	0.0088	0.0102	10.1	**FD 02**	30	7000	10000	13.9	**FA 02**	30	10000	13.4
0.25	0.18	**M 1SC 6**	1100	14.3	61	0.65	0.57	3.3	2.6	2.8	0.0200	0.0226	11.2	**FD 03**	44	6500	10000	17.2	**FA 03**	44	10000	16.5
0.33	0.25	**M 1SD 6**	1100	18.9	64	0.65	0.75	3.2	2.6	2.7	0.0259	0.0290	13.9	**FD 03**	44	6200	8000	19.8	**FA 03**	44	8000	19.2
0.50	0.37	**M 1LA 6**	1100	28.6	66	0.65	1.08	3.3	2.6	2.7	0.0306	0.0330	16.1	**FD 53**	66	4000	7000	22	**FA 03**	66	7000	21
0.75	0.55	**M 2SA 6**	1140	41.4	76	0.66	1.38	4.9	3.2	3.4	0.0594	0.0641	23	**FD 04**	133	3800	5000	32	**FA 04**	133	5000	32
1	0.75	**M 2SB 6**	1140	55	76	0.61	2.03	4.4	2.8	3.0	0.0665	0.0713	25	**FD 04**	133	2700	5000	34	**FA 04**	133	5000	34
1.5	1.1	**M 3SA 6**	1140	83	74	0.68	2.74	4.4	2.4	2.8	0.147	0.157	37	**FD 15**	230	2300	4500	51	**FA 15**	230	4500	53
2	1.5	**M 3LA 6**	1140	111	76	0.66	3.75	4.5	2.4	2.8	0.195	0.204	46	**FD 15**	354	1500	3000	60	**FA 15**	354	3000	62
3	2.2	**M 3LC 6**	1140	166	77	0.68	5.3	5.1	2.6	2.9	0.226	0.235	51	**FD 55**	480		1500	64	**FA 15**	480	1500	66
5	3.7	**M 4LA 6**	1150	274	80	0.79	7.3	6.1	2.5	3.1	0.701	0.724	95	**FD 06**	885		900	123	**FA 06**	885	900	126
7.5	5.5	**M 4LB 6**	1140	414	82	0.75	11.2	5.4	2.7	2.9	0.910	0.964	119	**FD 07**	1328		800	154	**FA 07**	1328	800	159
10	7.5	**M 5SA 6**	1160	543	85	0.82	13.5	5.8	2.3	2.8	1.758	1.936	152	**FD 08**	1500		550	216	**FA 08**	1500	550	216
15	11	**M 5SB 6**	1160	815	84	0.83	19.8	5.8	2.5	2.9	2.304	2.482	196	**FD 08**	1770		400	262	**FA 08**	1770	400	260

1) without brake
2) with brake

2 POLE - 3000 rpm - S1

50 Hz

P_n			n	T_n	EFF 2	η	cosφ	I_n at 400V	$\frac{I_s}{I_n}$	$\frac{T_s}{T_n}$	$\frac{T_k}{T_n}$	J_m lb·ft²		Weight lbs	Brake type	T_b	Z_o 1/h rectifier		Weight lbs	Brake type	T_b	Z_o 1/h	Weight lbs
hp	kW		rpm	lb·in		%		A				1)	2)	1)		lb·in	**NB**	**SB**	2)		lb·in		2)
0.25	0.18	**M 05A 2**	2730	5.6		60	0.77	0.56	3.0	2.1	2.0	0.0048	0.0062	7.1	**FD 02**	15	3900	4800	10.8	**FA 02**	15	4800	10.4
0.33	0.25	**M 05B 2**	2740	7.7		66	0.76	0.72	3.3	2.3	2.3	0.0055	0.0071	7.9	**FD 02**	15	3900	4800	11.7	**FA 02**	15	4800	11.2
0.5	0.37	**M 05C 2**	2800	11.2		69	0.78	0.99	3.9	2.6	2.6	0.0062	0.0078	10.6	**FD 02**	30	3600	4500	14.3	**FA 02**	30	4500	13.9
0.75	0.55	**M 1SD 2**	2820	16.5		76	0.76	1.37	5.0	2.9	2.8	0.0097	0.0126	12.8	**FD 03**	44	2900	4200	18.7	**FA 03**	44	4200	18.1
1	0.75	**M 1LA 2**	2810	23.0		77	0.76	1.86	5.1	3.1	2.8	0.0119	0.0145	15.2	**FD 03**	44	1900	3300	21	**FA 03**	44	3300	21
1.5	1.1	**M 2SA 2**	2800	33.6	EFF 2	76	0.81	2.57	4.8	2.8	2.4	0.0214	0.0252	19.4	**FD 04**	88	1500	3000	26	**FA 04**	88	3000	28
2	1.5	**M 2SB 2**	2800	45	EFF 2	79	0.81	3.4	4.9	2.7	2.4	0.0271	0.0309	23	**FD 04**	133	1300	2600	22	**FA 04**	133	2600	32
3	2.2	**M 3SA 2**	2850	65		80	0.78	5.1	5.2	2.1	1.8	0.0570	0.0665	34	**FD 15**	230	1100	2400	49	**FA 15**	230	2400	51
5.5	4	**M 3LB 2**	2870	118	EFF 2	84	0.8	8.6	5.9	2.7	2.5	0.0926	0.102	49	**FD 15**	354	450	900	62	**FA 15**	354	900	64
7.5	5.5	**M 4SA 2**	2890	161	EFF 2	86	0.84	11.0	6.0	2.6	2.2	0.240	0.266	73	**FD 06**	440		600	101	**FA 06**	440	600	104
10	7.5	**M 4SB 2**	2900	221	EFF 2	87	0.85	14.6	6.4	2.6	2.2	0.318	0.344	88	**FD 06**	440		550	117	**FA 06**	440	550	119
15	11	**M 4LC 2**	2920	319	EFF 2	89	0.88	20.2	7.0	2.9	2.5	0.499		132									
20	15	**M 5SB 2**	2930	434	EFF 2	90	0.86	28.1	7.1	2.6	2.3	0.808		154									
25	18.5	**M 5SC 2**	2930	531	EFF 2	90	0.86	34	7.6	2.7	2.3	0.998		183									
30	22	**M 5LA 2**	2930	637	EFF 2	91	0.88	40	7.8	2.6	2.4	1.164		209									

1) without brake
2) with brake

4 POLE - 1500 rpm - S1

50 Hz

P_n			n	T_n		η	cosφ	I_n at 400V	$\frac{I_s}{I_n}$	$\frac{T_s}{T_n}$	$\frac{T_k}{T_n}$	J_m lb·ft²		Weight lbs	Brake type	T_b	Z_o 1/h rectifier		Weight lbs	Brake type	T_b	Z_o 1/h	Weight lbs
hp	kW		rpm	lb·in		%		A				1)	2)	1)		lb·in	**NB**	**SB**	2)		lb·in		2)
0.12	0.09	**M 0B 4**	1350	5.7		52	0.60	0.42	2.6	2.5	2.4	0.0036		6.4									
0.16	0.12	**M 05A 4**	1350	7.5		60	0.62	0.47	2.6	1.9	1.8	0.0048	0.0062	7.1	**FD 02**	15.5	10000	13000	10.8	**FA 02**	15.5	13000	10.4
0.25	0.18	**M 05B 4**	1320	11.5		55	0.67	0.71	2.6	2.2	2.0	0.0055	0.0071	7.9	**FD 02**	31.0	10000	13000	11.7	**FA 02**	31.0	13000	11.2
0.33	0.25	**M 05C 4**	1340	15.8		65	0.69	0.80	2.7	2.1	1.9	0.0078	0.0093	10.6	**FD 02**	31.0	7800	10000	14.3	**FA 02**	31.0	10000	13.9
0.50	0.37	**M 1SD 4**	1370	23.0		67	0.76	1.05	3.7	2	1.9	0.0164	0.0190	12.1	**FD 03**	44.3	6000	9400	18.1	**FA 03**	44.3	9400	17.4
0.75	0.55	**M 1LA 4**	1380	33.6		69	0.74	1.55	4.1	2.3	2.3	0.0216	0.0242	15.2	**FD 53**	66	4300	8700	21	**FA 03**	66	8700	21
1	0.75	**M 2SA 4**	1400	45.1		75	0.78	1.85	4.9	2.7	2.5	0.0482	0.0523	20	**FD 04**	133	4100	7800	29	**FA 04**	133	7800	29
1.5	1.1	**M 2SB 4**	1400	66		76	0.78	2.66	5.1	2.8	2.5	0.0594	0.0641	23	**FD 04**	133	2600	5300	32	**FA 04**	133	5300	32
2	1.5	**M 3SA 4**	1410	90		80	0.77	3.5	4.6	2.1	2.1	0.0808	0.0903	34	**FD 15**	230	2800	4900	49	**FA 15**	230	4900	51
3	2.2	**M 3LA 4**	1410	132		81	0.75	5.2	4.5	2.2	2.0	0.0960	0.105	37	**FD 15**	354	2600	4700	53	**FA 15**	354	4700	53
5.5	4	**M 3LC 4**	1400	239		83	0.78	9.0	4.7	2.3	2.2	0.145	0.154	51	**FD 55**	487		1300	64	**FA 15**	487	1300	66
7.5	5.5	**M 4SA 4**	1440	319		86	0.80	11.5	5.5	2.3	2.2	0.506	0.530	93	**FD 56**	664		1050	121	**FA 06**	664	1050	123
10	7.5	**M 4LA 4**	1440	443		87	0.80	15.6	5.7	2.5	2.4	0.641	0.665	112	**FD 06**	885		950	141	**FA 07**	885	950	143
15	11	**M 4 LC 4**	1440	646		88	0.81	22.2	5.9	2.7	2.5	0.855	0.907	143	**FD 07**	1328		850	179	**FA 07**	1328	850	183
20	15	**M 5SB 4**	1460	867		90	0.81	29.7	5.9	2.3	2.1	1.544	1.781	187	**FD 08**	1770		750	254	**FA 08**	1770	750	251
25	18.5	**M 5LA 4**	1460	1071		90	0.81	37	6.2	2.6	2.5	1.876	2.054	223	**FD 08**	2213		700	289	**FA 08**	2213	700	287

1) without brake
2) with brake

6 POLE - 1000 rpm - S1

50 Hz

P_n			n	T_n	η	cosφ	I_n at 400V	$\frac{I_s}{I_n}$	$\frac{T_s}{T_n}$	$\frac{T_k}{T_n}$	J_m lb·ft²		Weight lbs	Brake type	T_b	Z_o 1/h rectifier		Weight lbs	Brake type	T_b	Z_o 1/h	Weight lbs
hp	kW		rpm	lb·in	%		A				1)	2)	1)		lb·in	**NB**	**SB**	2)		lb·in		2)
0.12	0.09	**M 05A**	**6**	880	8.7	41	0.53	0.60	2.1	2.1	1.8	0.0081	0.0095	9.5	**FD 02**	31.0	9000	14000	13.2	**FA 02**	31.0	14000	12.8
0.16	0.12	**M 05B**	**6**	870	11.7	45	0.60	0.64	2.1	1.9	1.7	0.0088	0.0102	10.1	**FD 02**	31.0	9000	14000	13.9	**FA 02**	31.0	14000	13.4
0.25	0.18	**M 1SC**	**6**	900	16.9	56	0.69	0.67	2.6	1.9	1.7	0.0200	0.0226	11.2	**FD 03**	44.3	8100	13500	17.2	**FA 03**	44.3	13500	16.5
0.33	0.25	**M 1SD**	**6**	900	23.9	62	0.71	0.82	2.6	1.9	1.7	0.0259	0.0290	13.9	**FD 03**	44.3	7800	13000	19.8	**FA 03**	44.3	13000	19.2
0.50	0.37	**M 1LA**	**6**	910	34.5	66	0.69	1.17	3.0	2.4	2.0	0.0306	0.0330	16.1	**FD 53**	66	5100	9500	22	**FA 03**	66	9500	21
0.75	0.55	**M 2SA**	**6**	920	50	70	0.69	1.64	3.9	2.6	2.2	0.0594	0.0641	23	**FD 04**	133	4800	7200	32	**FA 04**	133	7200	32
1	0.75	**M 2SB**	**6**	920	69	70	0.65	2.38	3.8	2.5	2.2	0.0665	0.0713	25	**FD 04**	133	3400	6400	34	**FA 04**	133	6400	34
1.5	1.1	**M 3SA**	**6**	920	101	72	0.69	3.2	3.9	2.3	2.0	0.147	0.157	37	**FD 05**	230	2700	5000	51	**FA 15**	230	5000	53
2	1.5	**M 3LA**	**6**	940	135	73	0.72	4.1	4.0	2.1	2.0	0.195	0.204	46	**FD 15**	354	1900	4100	60	**FA 15**	354	4100	62
3	2.2	**M 3LC**	**6**	930	204	75	0.71	6	4.6	2.0	1.9	0.226	0.235	51	**FD 55**	487		1900	64	**FA 15**	487	1900	66
5	4	**M 4LA**	**6**	950	354	78	0.77	9.6	5.5	2.0	1.8	0.701	0.724	95	**FD 06**	885		1200	123	**FA 07**	885	1200	126
7.5	5.5	**M 4LB**	**6**	945	496	80	0.78	12.7	5.9	2.1	1.9	0.910	0.964	119	**FD 07**	1328		1050	154	**FA 07**	1328	1050	159
10	7.5	**M 5SA**	**6**	955	664	84	0.81	15.9	5.9	2.2	2.0	1.758	1.936	152	**FD 08**	1505		900	216	**FA 08**	1505	900	216
15	11	**M 5SB**	**6**	960	965	87	0.81	22.5	6.5	2.5	2.3	2.304	2.482	196	**FD 08**	1770		800	262	**FA 08**	1770	800	260

1) without brake
2) with brake

3.11 IEC MOTOR RATING CHARTS

2 POLE - 3600 rpm - S1

60 Hz

P_n			n	T_n	η	cosφ	I_n at 460V	$\frac{I_s}{I_n}$	$\frac{T_s}{T_n}$	$\frac{T_k}{T_n}$	J_m lb·ft²		Weight lbs	Brake type	T_b	Z_o 1/h rectifier		Weight lbs	Brake type	T_b	Z_o 1/h	Weight lbs
hp	kW		rpm	lb·in	%		A				1)	2)	1)		lb·in	**NB**	**SB**	2)		lb·in		2)
0.25	0.18	**BN 63A 2**	3360	4.7	58	0.74	0.55	3.7	2.9	3.0	0.0048	0.0062	7.7	**FD 02**	15	2700	3300	10.7	**FA 02**	15	3300	11.0
0.33	0.25	**BN 63B 2**	3370	6.2	61	0.73	0.69	4.2	2.9	3.0	0.0055	0.0071	8.6	**FD 02**	15	2700	3300	11.5	**FA 02**	15	3300	11.9
0.5	0.37	**BN 71A 2**	3420	9.2	71	0.77	0.86	5.8	3.3	3.8	0.0082	0.0109	11.9	**FD 03**	30	2400	3200	16.6	**FA 03**	30	3200	17.2
0.75	0.55	**BN 71B 2**	3450	13.7	76	0.75	1.23	6.2	3.4	3.9	0.0097	0.0126	13.7	**FD 03**	44	2200	2700	18.2	**FA 03**	44	2700	19.0
1	0.75	**BN 80A 2**	3440	18.3	76	0.76	1.62	5.9	3.1	3.7	0.0185	0.0223	19.0	**FD 04**	44	1400	1700	26	**FA 04**	44	1700	27
1.5	1.1	**BN 80B 2**	3430	27.6	77	0.76	2.40	6.2	3.8	3.9	0.0214	0.0252	21	**FD 04**	88	1200	1600	27	**FA 04**	88	1600	29
2	1.5	**BN 90SA 2**	3480	36.2	79	0.78	3.04	7.3	3.6	3.8	0.0297	0.0335	27	**FD 14**	133	750	1000	34	**FA 14**	133	1000	36
3	2.2	**BN 90L 2**	3490	54	81	0.79	4.4	7.3	3.8	3.9	0.0397	0.0435	31	**FD 05**	230	750	1000	41	**FA 05**	230	1000	46
5	3.7	**BN 100LB 2**	3490	90	84	0.83	6.7	6.7	2.9	3.2	0.0926	0.102	51	**FD 15**	354	360	500	59	**FA 15**	354	500	66
7.5	5.5	**BN 132SA 2**	3490	135	83	0.86	9.8	6.4	2.7	3.0	0.240	0.266	77	**FD 06**	440		400	98	**FA 06**	440	400	108
10	7.5	**BN 132SB 2**	3490	181	82	0.88	13.0	6.2	2.8	3.2	0.318	0.344	93	**FD 06**	440		350	113	**FA 06**	440	350	123
15	11	**BN 160MR 2**	3510	271	87	0.88	18.3	6.9	2.7	3.0	0.499		143									
20	15	**BN 160MB 2**	3510	359	86	0.90	24.2	6.0	2.5	2.7	0.808		185									
25	18.5	**BN 160L 2**	3520	449	88	0.91	29.2	6.9	2.8	3.0	0.998		214									
30	22	**BN 180M 2**	3520	537	88	0.91	35.1	6.9	2.8	3.1	1.164		240									
40	30	**BN 200L 2**	3530	716	89	0.91	46.2	6.9	2.6	3.0	1.829		309									

1) without brake
2) with brake

4 POLE - 1800 rpm - S1

60 Hz

P_n			n	T_n	η	$\cos\varphi$	I_n at 460V	$\frac{I_s}{I_n}$	$\frac{T_s}{T_n}$	$\frac{T_k}{T_n}$	J_m lb·ft²		Weight lbs	Brake type	T_b	Z_o 1/h rectifier		Weight lbs	Brake type	T_b	Z_o 1/h	Weight lbs
hp	kW		rpm	lb·in	%		A				1)	2)	1)		lb·in	**NB**	**SB**	2)		lb·in		2)
0.08	0.06	**BN 56A 4**	1670	3.0	53	0.55	0.26	2.9	3.1	3.1	0.0036		6.8									
0.12	0.09	**BN 56B 4**	1670	4.5	59	0.52	0.37	2.8	2.9	2.9	0.0036		6.8									
0.16	0.12	**BN 63A 4**	1650	6.1	55	0.64	0.43	3.1	2.4	2.5	0.0048	0.0062	7.7	**FD 02**	15	7000	9000	11.5	**FA 02**	15	9000	11.0
0.25	0.18	**BN 63B 4**	1670	9.4	58	0.59	0.68	3.1	2.8	2.9	0.0055	0.0071	8.6	**FD 02**	30	7000	9000	12.3	**FA 02**	30	9000	11.9
0.33	0.25	**BN 71A 4**	1700	12.2	64	0.74	0.65	4.3	2.6	2.7	0.0138	0.0164	11.2	**FD 03**	30	6000	8500	17.2	**FA 03**	30	8500	16.5
0.50	0.37	**BN 71B 4**	1700	18.5	66	0.73	0.97	4.5	2.6	2.8	0.0164	0.0190	13.0	**FD 03**	44	4800	7500	19.0	**FA 03**	44	7500	18.3
0.75	0.55	**BN 80A 4**	1710	27.6	73	0.75	1.28	4.9	3.0	3.0	0.0356	0.0394	18.1	**FD 04**	89	3400	7000	27	**FA 04**	89	7000	26
1	0.75	**BN 80B 4**	1720	36.6	78	0.75	1.60	6.2	3.4	3.5	0.0482	0.0523	22	**FD 04**	133	3000	6000	30	**FA 04**	133	6000	30
1.5	1.1	**BN 90S 4**	1720	55	78	0.74	2.43	5.7	3.1	3.4	0.0499	0.0546	27	**FD 14**	133	3000	7000	36	**FA 14**	133	7000	36
2	1.5	**BN 90LA 4**	1720	73	81	0.74	3.12	6.6	3.3	3.6	0.0665	0.0760	30	**FD 05**	230	2200	4700	43	**FA 05**	230	4700	45
3	2.2	**BN 100LA 4**	1720	110	81	0.73	4.8	5.5	2.7	2.9	0.0960	0.105	40	**FD 15**	354	1000	2700	55	**FA 15**	354	2700	55
5	3.7	**BN 100LC 4**	1730	182	84	0.74	7.5	5.6	2.8	3.1	0.145	0.154	55	**FD 55**	480		1200	66	**FA 15**	480	1200	64
5.5	4	**BN 112M 4**	1730	200	85	0.76	8.0	7.0	3.1	3.4	0.233	0.254	66	**FD 06S**	530		850	88	**FA 06S**	530	850	93
7.5	5.5	**BN 132S 4**	1730	273	84	0.84	10.0	6.3	2.9	3.1	0.506	0.530	97	**FD 56**	664		850	126	**FA 06**	664	850	128
10	7.5	**BN 132MA 4**	1740	362	85	0.84	13.1	6.1	2.9	3.0	0.641	0.665	117	**FD 06**	885		700	146	**FA 07**	885	700	157
15	11	**BN 160MR 4**	1740	543	88	0.81	19.4	6.5	3.1	3.2	0.855	0.907	154	**FD 07**	1328		600	190	**FA 07**	1328	600	194
20	15	**BN 160L 4**	1750	720	90	0.84	24.8	5.8	2.3	2.7	1.544	1.722	218	**FD 08**	1770		400	284	**FA 08**	1770	400	282
25	18.5	**BN 180M 4**	1760	895	90	0.83	31.3	5.8	2.5	3.1	1.876	2.054	254	**FD 08**	2210		300	320	**FA 08**	2210	300	317

1) without brake
2) with brake

6 POLE - 1200 rpm - S1

60 Hz

P_n			n	T_n	η	cosφ	I_n	$\frac{I_s}{I_n}$	$\frac{T_s}{T_n}$	$\frac{T_k}{T_n}$	J_m lb·ft²		Weight lbs	Brake type	T_b	Z_o 1/h rectifier		Weight lbs	Brake type	T_b	Z_o 1/h	Weight lbs
hp	kW		rpm	lb·in	%		at 460V A				1)	2)	1)		lb·in	**NB**	**SB**	2)		lb·in		2)
0.12	0.09	**BN 63A 6**	1100	6.9	47	0.50	0.48	2.8	2.9	2.9	0.0081	0.0095	10.1	**FD 02**	30	7000	10000	13.9	**FA 02**	30	10000	13.4
0.16	0.12	**BN 63B 6**	1100	9.2	50	0.55	0.55	2.4	2.4	2.7	0.0088	0.0102	10.8	**FD 02**	30	7000	10000	14.6	**FA 02**	30	10000	14.1
0.25	0.18	**BN 71A 6**	1100	14.3	61	0.65	0.57	3.3	2.6	2.8	0.0200	0.0226	12.1	**FD 03**	44	6500	10000	18.1	**FA 03**	44	10000	17.4
0.33	0.25	**BN 71B 6**	1100	18.9	64	0.65	0.75	3.2	2.6	2.7	0.0259	0.0285	14.8	**FD 03**	44	6200	8000	21	**FA 03**	44	8000	20
0.50	0.37	**BN 80A 6**	1130	27.9	67	0.65	1.07	3.9	2.6	2.8	0.0499	0.0546	22	**FD 04**	88	4100	5500	30	**FA 04**	88	5500	30
0.75	0.55	**BN 80B 6**	1140	41.4	76	0.66	1.38	4.9	3.2	3.4	0.0594	0.0641	25	**FD 04**	133	3800	5000	34	**FA 04**	133	5000	33
1	0.75	**BN 90S 6**	1140	55	73	0.63	2.05	4.5	2.9	3.1	0.0618	0.0665	29	**FD 14**	133	2700	4000	37	**FA 14**	133	4000	37
1.5	1.1	**BN 90L 6**	1140	83	75	0.65	2.83	4.3	2.8	2.9	0.0784	0.0879	33	**FD 05**	230	2000	3500	46	**FA 05**	230	3500	49
2	1.5	**BN 100LA 6**	1140	111	76	0.66	3.75	4.5	2.4	2.8	0.195	0.204	49	**FD 15**	354	1500	3000	62	**FA 15**	354	3000	64
3	2.2	**BN 112M 6**	1150	164	81	0.69	4.9	5.5	2.8	2.9	0.400	0.420	71	**FD 06S**	530		1250	93	**FA 06S**	530	1250	97
5	3.7	**BN 132MA 6**	1150	274	80	0.79	7.3	6.1	2.5	3.1	0.701	0.724	97	**FD 06**	885		900	128	**FA 07**	885	900	139
7.5	5.5	**BN 132MB 6**	1140	414	82	0.75	11.2	5.4	2.7	2.9	0.910	0.964	123	**FD 07**	1328		800	159	**FA 07**	1328	800	163
10	7.5	**BN 160M 6**	1160	543	85	0.82	13.5	5.8	2.3	2.8	1.758	1.936	183	**FD 08**	1500		550	247	**FA 08**	1500	550	249
15	11	**BN 160L 6**	1160	815	84	0.83	19.8	5.8	2.5	2.9	2.304	2.482	227	**FD 08**	1770		400	293	**FA 08**	1770	400	293

1) without brake
2) with brake

2 POLE - 3000 rpm - S1

50 Hz

P_n			n	T_n		η	cosφ	I_n at 400V	$\frac{I_s}{I_n}$	$\frac{T_s}{T_n}$	$\frac{T_k}{T_n}$	J_m lb·ft²		Weight lbs	Brake type	T_b	Z_o 1/h rectifier		Weight lbs	Brake type	T_b	Z_o 1/h	Weight lbs
hp	kW		rpm	lb·in		%		A				1)	2)	1)		lb·in	**NB**	**SB**	2)		lb·in		2)
0.25	0.18	**BN 63A 2**	2730	5.6		59.9	0.77	0.56	3.0	2.1	2.0	0.0048	0.0062	7.7	**FD 02**	15	3900	4800	11.5	**FA 02**	15	4800	11.0
0.33	0.25	**BN 63B 2**	2740	7.7		66.0	0.76	0.72	3.3	2.3	2.3	0.0055	0.0071	8.6	**FD 02**	15	3900	4800	12.3	**FA 02**	15	4800	11.9
0.5	0.37	**BN 71A 2**	2820	11.1		73.8	0.76	0.95	4.8	2.8	2.6	0.0082	0.0109	11.9	**FD 03**	30	3000	4100	17.9	**FA 03**	30	4200	17.2
0.75	0.55	**BN 71B 2**	2820	16.5		76.0	0.76	1.37	5.0	2.9	2.8	0.0097	0.0126	13.7	**FD 03**	44	2900	4200	19.6	**FA 03**	44	4200	19.0
1	0.75	**BN 80A 2**	2810	23.0		76.2	0.81	1.75	4.8	2.6	2.2	0.0185	0.0223	19.0	**FD 04**	44	1700	3200	28	**FA 04**	44	3200	27
1.5	1.1	**BN 80B 2**	2800	33.6	EFF 2	76.4	0.81	2.57	4.8	2.8	2.4	0.0214	0.0252	21	**FD 04**	88	1500	3000	30	**FA 04**	88	3000	29
2	1.5	**BN 90SA 2**	2870	44	EFF 2	82.0	0.80	3.3	5.9	2.7	2.6	0.0297	0.0335	27	**FD 14**	133	900	2200	36	**FA 14**	133	2200	36
3	2.2	**BN 90L 2**	2880	65	EFF 2	82.7	0.80	4.8	6.3	2.9	2.7	0.0397	0.0435	31	**FD 05**	230	900	2200	44	**FA 05**	230	2200	46
5.5	4	**BN 100LB 2**	2870	118	EFF 2	84.3	0.80	8.6	5.9	2.7	2.5	0.0926	0.102	51	**FD 15**	354	450	900	64	**FA 15**	354	1000	66
7.50	5.5	**BN 132SA 2**	2890	161	EFF 2	86.1	0.84	11.0	6.0	2.6	2.2	0.240	0.266	77	**FD 06**	440		600	106	**FA 06**	440	600	108
10	7.5	**BN 132SB 2**	2900	221	EFF 2	87.2	0.85	14.6	6.4	2.6	2.2	0.318	0.344	93	**FD 06**	440		550	121	**FA 06**	440	550	123
15	11	**BN 160MR 2**	2920	319	EFF 2	89.1	0.88	20.2	7.0	2.9	2.5	0.499		143									
20	15	**BN 160MB 2**	2930	434	EFF 2	89.6	0.86	28.1	7.1	2.6	2.3	0.808		185									
25	18.5	**BN 160L 2**	2930	531	EFF 2	90.4	0.86	34	7.6	2.7	2.3	0.998		214									
30	22	**BN 180M 2**	2930	637	EFF 2	91.3	0.88	40	7.8	2.6	2.4	1.164		240									
40	30	**BN 200L 2**	2930	867	EFF 2	91.9	0.89	53	7.9	2.7	2.9	1.829		309									

1) without brake
2) with brake

4 POLE - 1500 rpm - S1

50 Hz

P_n				n	T_n		η	cosφ	I_n at 400V	$\frac{I_s}{I_n}$	$\frac{T_s}{T_n}$	$\frac{T_k}{T_n}$	J_m lb·ft²		Weight lbs	Brake type	T_b	Z_o 1/h rectifier		Weight lbs	Brake type	T_b	Z_o 1/h	Weight lbs
hp	kW			rpm	lb·in		%		A				1)	2)	1)		lb·in	**NB**	**SB**	2)		lb·in		2)
0.08	0.06	**BN 56A**	**4**	1340	3.8		46.8	0.65	0.28	2.6	2.3	2.0	0.0036		6.8									
0.12	0.09	**BN 56B**	**4**	1350	5.7		51.7	0.60	0.42	2.6	2.5	2.4	0.0036		6.8									
0.16	0.12	**BN 63A**	**4**	1350	7.5		59.8	0.62	0.47	2.6	1.9	1.8	0.0048	0.0062	7.7	**FD 02**	15	10000	13000	11.5	**FA 02**	15	13000	11.0
0.25	0.18	**BN 63B**	**4**	1320	11.5		54.8	0.67	0.71	2.6	2.2	2.0	0.0055	0.0071	8.6	**FD 02**	30	10000	13000	12.3	**FA 02**	30	13000	11.9
0.33	0.25	**BN 71A**	**4**	1380	15.3		63.7	0.73	0.78	3.3	1.9	1.7	0.0138	0.0164	11.2	**FD 03**	30	7700	11000	17.2	**FA 03**	30	11000	16.5
0.50	0.37	**BN 71B**	**4**	1370	23.0		66.8	0.76	1.05	3.7	2.0	1.9	0.0164	0.0190	13.0	**FD 03**	44	6000	9400	19.0	**FA 03**	44	9400	18.3
0.75	0.55	**BN 80A**	**4**	1390	33.6		72.0	0.77	1.43	4.1	2.3	2.0	0.0356	0.0394	18.1	**FD 04**	89	4100	8000	27	**FA 04**	89	8000	26
1	0.75	**BN 80B**	**4**	1400	45		75.0	0.78	1.85	4.9	2.7	2.5	0.0482	0.0523	22	**FD 04**	133	4100	7800	30	**FA 04**	133	7800	30
1.5	1.1	**BN 90S**	**4**	1400	66	EFF 2	76.5	0.77	2.70	4.6	2.6	2.2	0.0499	0.0546	27	**FD 14**	133	4800	8000	36	**FA 14**	133	8000	36
2	1.5	**BN 90LA**	**4**	1390	91	EFF 2	78.7	0.77	3.6	5.3	2.8	2.4	0.0665	0.0760	30	**FD 05**	230	3400	6000	43	**FA 05**	230	6000	45
3	2.2	**BN 100LA**	**4**	1410	132	EFF 2	81.1	0.75	5.2	4.5	2.2	2.0	0.0960	0.105	40	**FD 15**	354	2600	4700	55	**FA 15**	354	4700	55
4	3	**BN 100LB**	**4**	1410	177	EFF 2	82.6	0.77	6.8	5	2.3	2.2	0.128	0.154	49	**FD 15**	354	2400	4400	62	**FA 15**	354	4400	64
5.5	4	**BN 112M**	**4**	1430	239	EFF 2	84.4	0.81	8.4	5.6	2.7	2.5	0.233	0.254	66	**FD 06S**	530	—	1400	88	**FA 06S**	530	2100	93
7.5	5.5	**BN 132S**	**4**	1440	319	EFF 2	86.3	0.80	11.5	5.5	2.3	2.2	0.506	0.530	97	**FD 56**	664	—	1050	126	**FA 06**	664	1200	128
10	7.5	**BN 132MA**	**4**	1440	443	EFF 2	87.0	0.80	15.6	5.7	2.5	2.4	0.641	0.665	117	**FD 06**	885	—	950	146	**FA 07**	885	1000	157
15	11	**BN 160MR**	**4**	1440	646	EFF 2	88.4	0.81	22.2	5.9	2.7	2.5	0.855	0.907	154	**FD 07**	1328	—	850	190	**FA 07**	1328	850	194
20	15	**BN 160L**	**4**	1460	867	EFF 2	89.9	0.81	29.7	5.9	2.3	2.1	1.544	1.722	218	**FD 08**	1770	—	750	284	**FA 08**	1770	750	282
25	18.5	**BN 180M**	**4**	1460	1071	EFF 2	90.0	0.81	37	6.2	2.6	2.5	1.876	2.054	254	**FD 08**	2210	—	700	320	**FA 08**	2210	700	317

1) without brake
2) with brake

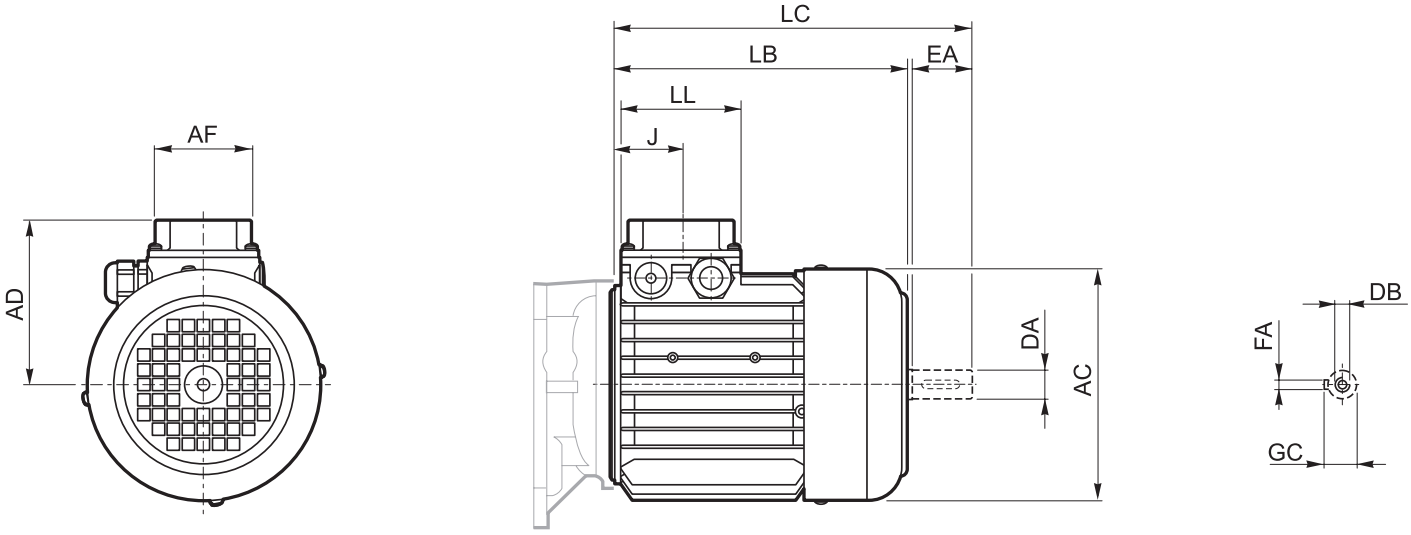
6 POLE - 1000 rpm - S1

50 Hz

P_n			n	T_n	η	cosφ	I_n at 400V	$\frac{I_s}{I_n}$	$\frac{T_s}{T_n}$	$\frac{T_k}{T_n}$	J_m lb·ft²		Weight lbs	Brake type	T_b	Z_o 1/h rectifier		Weight lbs	Brake type	T_b	Z_o 1/h	Weight lbs
hp	kW		rpm	lb·in	%		A				1)	2)	1)		lb·in	**NB**	**SB**	2)		lb·in		2)
0.12	0.09	**BN 63A 6**	880	8.7	41	0.53	0.60	2.1	2.1	1.8	0.0081	0.0095	4.6	**FD 02**	30	9000	14000	6.3	**FA 02**	30	14000	6.1
0.16	0.12	**BN 63B 6**	870	11.7	45	0.60	0.64	2.1	1.9	1.7	0.0088	0.0102	4.9	**FD 02**	30	9000	14000	6.6	**FA 02**	30	14000	6.4
0.25	0.18	**BN 71A 6**	900	16.9	56	0.69	0.67	2.6	1.9	1.7	0.0200	0.0226	5.5	**FD 03**	44	8100	13500	8.2	**FA 03**	44	13500	7.9
0.33	0.25	**BN 71B 6**	900	23.9	62	0.71	0.82	2.6	1.9	1.7	0.0259	0.0285	6.7	**FD 03**	44	7800	13000	9.4	**FA 03**	44	13000	9.1
0.50	0.37	**BN 80A 6**	910	34.5	68	0.68	1.15	3.2	2.2	2.0	0.0499	0.0546	9.9	**FD 04**	88	5200	8500	13.8	**FA 04**	88	8500	13.7
0.75	0.55	**BN 80B 6**	920	50	70	0.69	1.64	3.9	2.6	2.2	0.0594	0.0641	11.3	**FD 04**	133	4800	7200	15.2	**FA 04**	133	7200	15.1
1	0.75	**BN 90S 6**	920	69	69	0.68	2.31	3.8	2.4	2.2	0.0618	0.0665	12.6	**FD 14**	133	3400	6500	16.8	**FA 14**	133	6500	16.7
1.5	1.1	**BN 90L 6**	920	101	72	0.69	3.2	3.9	2.3	2.0	0.0784	0.0879	15	**FD 05**	230	2700	5000	21	**FA 05**	230	5000	22
2	1.5	**BN 100LA 6**	940	135	73	0.72	4.1	4	2.1	2.0	0.195	0.204	22	**FD 15**	354	1900	4100	28	**FA 15**	354	4100	29
3	2.2	**BN 112M 6**	940	195	78	0.73	5.6	4.8	2.2	2.0	0.400	0.420	32	**FD 06S**	530	—	2100	42	**FA 06S**	530	2100	44
5.5	4	**BN 132MA 6**	950	354	78	0.77	9.6	5.5	2.0	1.8	0.701	0.724	45	**FD 06**	885	—	1200	58	**FA 07**	885	1200	63
7.5	5.5	**BN 132MB 6**	945	496	80	0.78	12.7	5.9	2.1	1.9	0.910	0.964	56	**FD 07**	1328	—	1050	72	**FA 07**	1328	1050	74
10	7.5	**BN 160M 6**	955	664	84	0.81	15.9	5.9	2.2	2.0	1.758	1.936	83	**FD 08**	1500	—	900	112	**FA 08**	1500	900	113
15	11	**BN 160L 6**	960	965	87	0.81	22.5	6.5	2.5	2.3	2.304	2.482	103	**FD 08**	1770	—	800	133	**FA 08**	1770	800	133

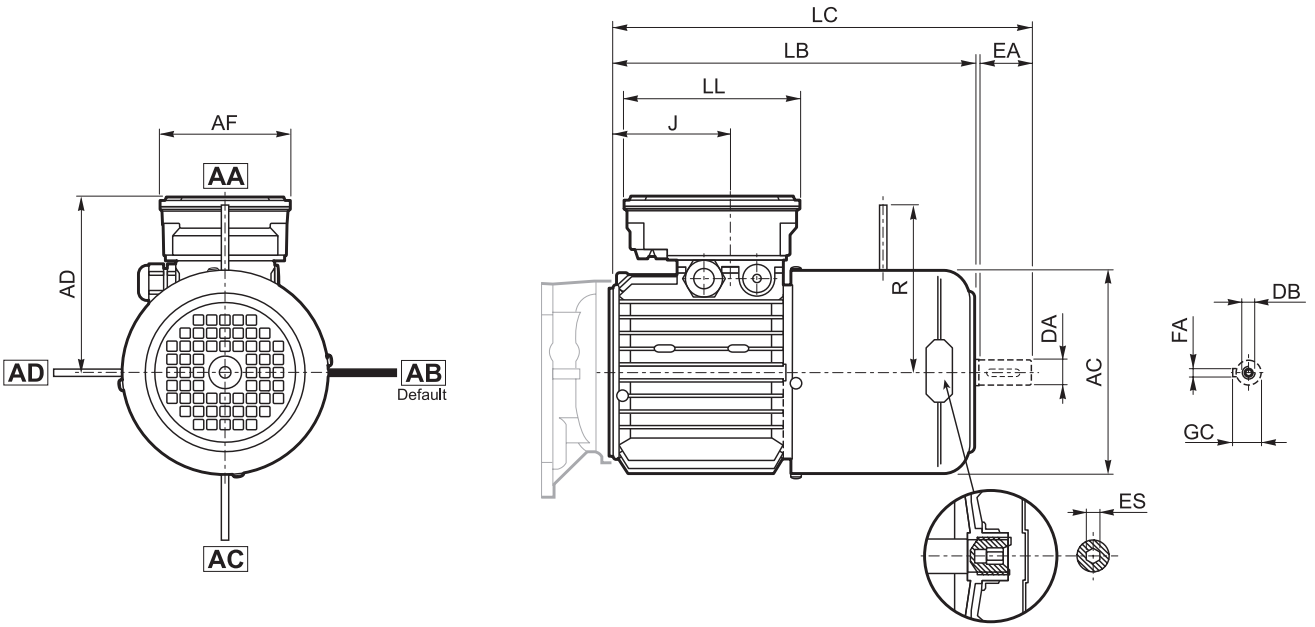
1) without brake
2) with brake

3.12 DIMENSIONS



	Rear shaft end					Motor						
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
M 0	0.35 *9*	0.79 *20*	*M3*	0.12 *3*	0.40 *10.2*	4.33 *110*	5.24 *133*	6.10 *155*	2.91 *74*	3.15 *80*	1.65 *42*	3.58 *91*
M 05	0.43 *11*	0.91 *23*	*M4*	0.16 *4*	0.49 *12.5*	4.76 *121*	6.50 *165*	7.52 *191*	2.91 *74*	3.15 *80*	1.89 *48*	3.74 *95*
M 1	0.55 *14*	1.18 *30*	*M5*	0.20 *5*	0.63 *16*	5.43 *138*	7.36 *187*	8.62 *219*	2.91 *74*	3.15 *80*	1.77 *45*	4.25 *108*
M 2 S	0.75 *19*	1.57 *40*	*M6*	0.24 *6*	0.85 *21.5*	6.14 *156*	7.95 *202*	9.65 *245*	2.91 *74*	3.15 *80*	1.73 *44*	4.69 *119*
M 3 S	1.10 *28*	2.36 *60*	*M10*	0.31 *8*	1.22 *31*	7.68 *195*	9.06 *230*	11.54 *293*	3.86 *98*	3.86 *98*	2.11 *53.5*	5.59 *142*
M 3 L	1.10 *28*	2.36 *60*	*M10*	0.31 *8*	1.22 *31*	7.68 *195*	10.31 *262*	12.80 *325*	3.86 *98*	3.86 *98*	2.11 *53.5*	5.59 *142*
M 4	1.50 *38*	3.15 *80*	*M12*	0.39 *10*	1.61 *41*	10.16 *258*	14.21 *361*	17.48 *444*	4.65 *118*	4.65 *118*	2.54 *64.5*	7.60 *193*
M 4 LC	1.50 *38*	3.15 *80*	*M12*	0.39 *10*	1.61 *41*	10.16 *258*	15.59 *396*	18.86 *479*	4.65 *118*	4.65 *118*	2.54 *64.5*	7.60 *193*
M 5 S	1.50 *38*	3.15 *80*	*M12*	0.39 *10*	1.61 *41*	12.20 *310*	16.46 *418*	19.76 *502*	7.36 *187*	7.36 *187*	3.03 *77*	9.65 *245*
M 5 L	1.50 *38*	3.15 *80*	*M12*	0.39 *10*	1.61 *41*	12.20 *310*	18.19 *462*	21.50 *546*	7.36 *187*	7.36 *187*	3.03 *77*	9.65 *245*

Dimensions are $\frac{\text{inch}}{mm}$

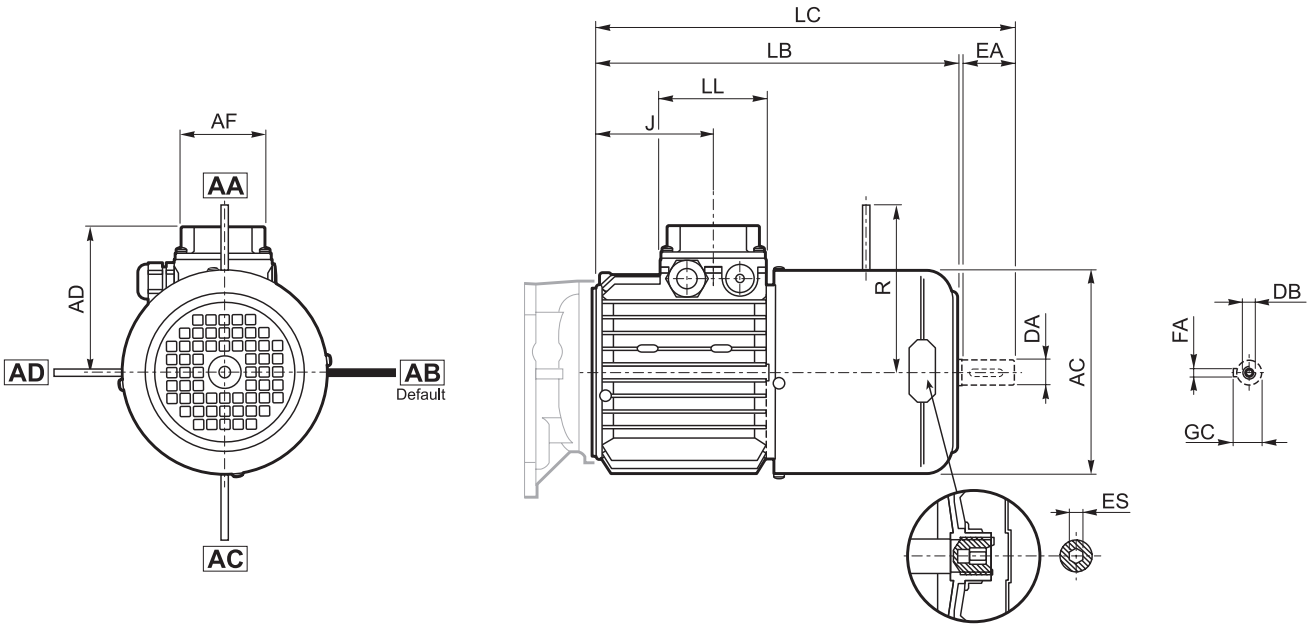


	Rear shaft end					Motor								
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R**	**ES**
M 05	0.43 *11*	0.91 *23*	*M4*	0.16 *4*	0.49 *12.5*	4.76 *121*	9.09 *231*	10.08 *256*	3.86 *98*	5.24 *133*	1.89 *48*	4.69 *119*	3.78 *96*	0.20 *5*
M 1	0.55 *14*	1.18 *30*	*M5*	0.20 *5*	0.63 *16*	5.43 *138*	9.76 *248*	11.02 *280*	3.86 *98*	5.24 *133*	2.87 *73*	5.20 *132*	4.06 *103*	0.20 *5*
M 2 S	0.75 *19*	1.57 *40*	*M6*	0.24 *6*	0.85 *21.5*	6.14 *156*	10.71 *272*	12.36 *314*	3.86 *98*	5.24 *133*	3.46 *88*	5.63 *143*	5.08 *129*	0.20 *5*
M 3 S	1.10 *28*	2.36 *60*	*M10*	0.31 *8*	1.22 *31*	7.68 *195*	12.83 *326*	15.31 *389*	4.33 *110*	6.50 *165*	4.90 *124.5*	6.10 *155*	6.30 *160*	0.24 *6*
M 3 L	1.10 *28*	2.36 *60*	*M10*	0.31 *8*	1.22 *31*	7.68 *195*	13.90 *353*	16.38 *416*	4.33 *110*	6.50 *165*	4.90 *124.5*	6.10 *155*	6.30 *160*	0.24 *6*
M 4	1.50 *38*	3.15 *80*	*M12*	0.39 *10*	1.61 *41*	10.16 *258*	18.50 *470*	21.77 *553*	5.51 *140*	7.40 *188*	7.30 *185.5*	8.27 *210*	8.03 *204 (1)*	0.24 *6*
M 4 LC	1.50 *38*	3.15 *80*	*M12*	0.39 *10*	1.61 *41*	10.16 *258*	19.49 *495*	22.76 *578*	5.51 *140*	7.40 *188*	2.54 *64.5*	8.27 *210*	8.90 *226*	0.24 *6*
M 5 S	1.50 *38*	3.15 *80*	*M12*	0.39 *10*	1.61 *41*	12.20 *310*	21.97 *558*	25.28 *642*	7.36 *187*	7.36 *187*	3.03 *77*	9.65 *245*	10.47 *266*	—
M 5 L	1.50 *38*	3.15 *80*	*M12*	0.39 *10*	1.61 *41*	12.20 *310*	23.70 *602*	27.01 *686*	7.36 *187*	7.36 *187*	3.03 *77*	9.65 *245*	10.47 *266*	—

1) For FD07 brake value R=226

ES hexagon is not supplied with PS option

Dimensions are $\frac{\text{inch}}{mm}$

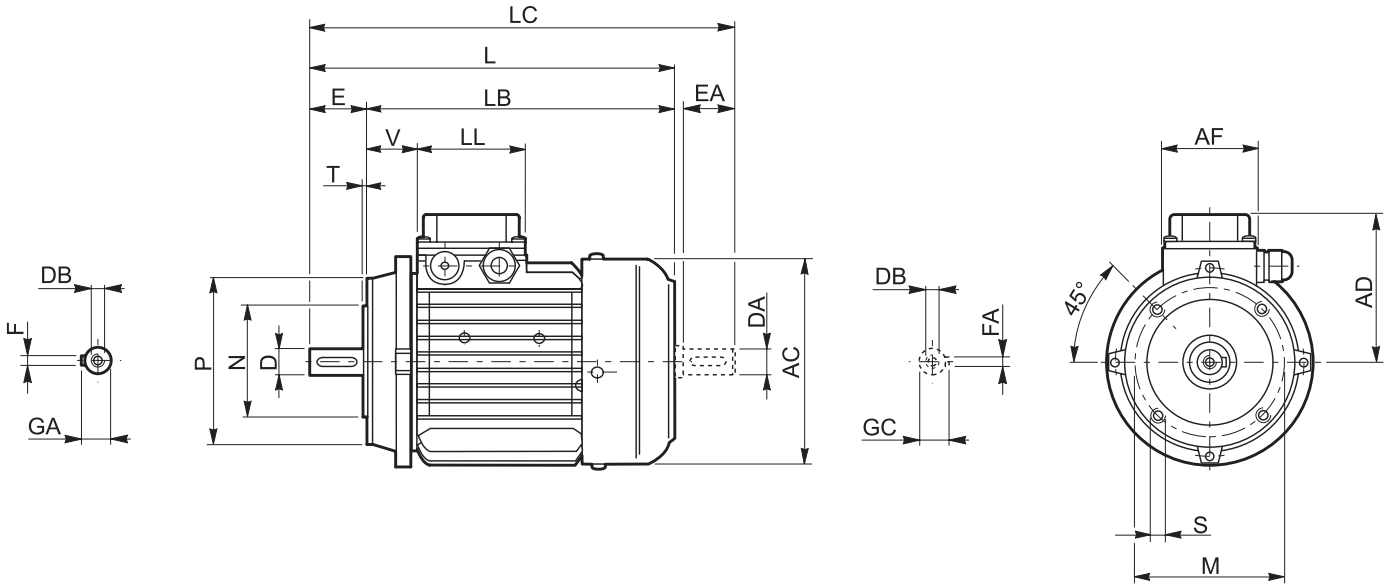


	Rear shaft end					Motor								
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R**	**ES**
M 05	0.43 *11*	0.91 *23*	*M4*	0.16 *4*	0.49 *12.5*	4.76 *121*	9.09 *231*	10.08 *256*	2.91 *74*	3.15 *80*	1.89 *48*	3.74 *95*	4.57 *116*	0.20 *5*
M 1	0.55 *14*	1.18 *30*	*M5*	0.20 *5*	0.63 *16*	5.43 *138*	9.76 *248*	11.02 *280*	2.91 *74*	3.15 *80*	2.87 *73*	4.25 *108*	4.88 *124*	0.20 *5*
M 2 S	0.75 *19*	1.57 *40*	*M6*	0.24 *6*	0.85 *21.5*	6.14 *156*	10.71 *272*	12.36 *314*	2.91 *74*	3.15 *80*	3.46 *88*	4.69 *119*	5.28 *134*	0.20 *5*
M 3 S	1.10 *28*	2.36 *60*	*M10*	0.31 *8*	1.22 *31*	7.68 *195*	12.83 *326*	15.31 *389*	3.86 *98*	3.86 *98*	4.90 *124.5*	5.59 *142*	6.30 *160*	0.24 *6*
M 3 L	1.10 *28*	2.36 *60*	*M10*	0.31 *8*	1.22 *31*	7.68 *195*	13.90 *353*	16.38 *416*	3.86 *98*	3.86 *98*	4.90 *124.5*	5.59 *142*	6.30 *160*	0.24 *6*
M 4	1.50 *38*	3.15 *80*	*M14*	0.39 *10*	1.61 *41*	10.16 *258*	18.50 *470*	21.77 *553*	4.65 *118*	4.65 *118*	7.30 *185.5*	7.60 *193*	7.87 *200 (1)*	0.24 *6*
M 4 LC	1.50 *38*	3.15 *80*	*M14*	0.39 *10*	1.61 *41*	10.16 *258*	19.49 *495*	22.76 *578*	4.65 *118*	4.65 *118*	2.54 *64.5*	7.60 *193*	8.54 *217*	0.24 *6*
M 5 S	1.50 *38*	3.15 *80*	*M12*	0.39 *10*	1.61 *41*	12.20 *310*	21.97 *558*	25.28 *642*	7.36 *187*	7.36 *187*	3.03 *77*	9.65 *245*	9.72 *247*	—
M 5 L	1.50 *38*	3.15 *80*	*M12*	0.39 *10*	1.61 *41*	12.20 *310*	23.70 *602*	27.01 *686*	7.36 *187*	7.36 *187*	3.03 *77*	9.65 *245*	9.72 *247*	—

1) For FD07 brake value R=226

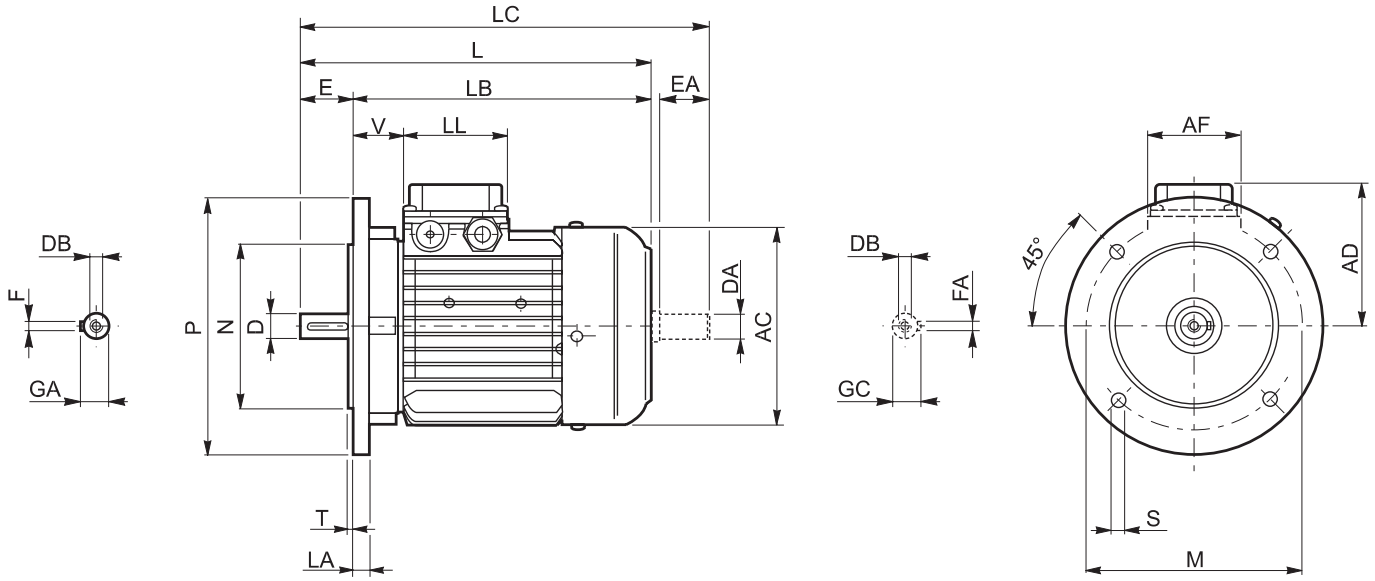
ES hexagon is not supplied with PS option

Dimensions are $\frac{\text{inch}}{mm}$



	Shaft					Flange					Motor							
	D **DA**	**E** **EA**	**DB**	**GA** **GC**	**F** **FA**	**M**	**N**	**P**	**S**	**T**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BN 56	0.35 *9*	0.79 *20*	*M3*	0.40 *10.2*	0.12 *3*	2.56 *65*	1.97 *50*	3.15 *80*	*M5*	0.10 *2.5*	4.33 *110*	7.28 *185*	6.50 *165*	8.15 *207*	3.58 *91*	2.91 *74*	3.15 *80*	1.34 *34*
BN 63	0.43 *11*	0.91 *23*	*M4*	0.49 *12.5*	0.16 *4*	2.95 *75*	2.36 *60*	3.54 *90*	*M5*	0.10 *2.5*	4.76 *121*	8.15 *207*	7.24 *184*	9.13 *232*	3.74 *95*	2.91 *74*	3.15 *80*	1.02 *26*
BN 71	0.55 *14*	1.18 *30*	*M5*	0.63 *16*	0.20 *5*	3.35 *85*	2.76 *70*	4.13 *105*	*M6*	0.10 *2.5*	5.43 *138*	9.80 *249*	8.62 *219*	11.06 *281*	4.25 *108*	2.91 *74*	3.15 *80*	1.46 *37*
BN 80	0.75 *19*	1.57 *40*	*M6*	0.85 *21.5*	0.24 *6*	3.94 *100*	3.15 *80*	4.72 *120*	*M6*	0.12 *3*	6.14 *156*	10.79 *274*	9.21 *234*	12.40 *315*	4.69 *119*	2.91 *74*	3.15 *80*	1.50 *38*
BN 90	0.94 *24*	1.97 *50*	*M8*	1.06 *27*	0.31 *8*	4.53 *115*	3.74 *95*	5.51 *140*	*M8*	0.12 *3*	6.93 *176*	12.83 *326*	10.87 *276*	14.88 *378*	5.24 *133*	3.86 *98*	3.86 *98*	1.73 *44*
BN 100	1.10 *28*	2.36 *60*	*M10*	1.22 *31*	0.31 *8*	5.12 *130*	4.33 *110*	6.30 *160*	*M8*	0.14 *3.5*	7.68 *195*	14.41 *366*	12.05 *306*	16.89 *429*	5.59 *142*	3.86 *98*	3.86 *98*	1.97 *50*
BN 112	1.10 *28*	2.36 *60*	*M10*	1.22 *31*	0.31 *8*	5.12 *130*	4.33 *110*	6.30 *160*	*M8*	0.14 *3.5*	8.62 *219*	15.16 *385*	12.80 *325*	17.64 *448*	6.18 *157*	3.86 *98*	3.86 *98*	2.05 *52*
BN 132	1.50 *38*	3.15 *80*	*M12*	1.61 *41*	0.39 *10*	6.50 *165*	5.12 *130*	7.87 *200*	*M10*	0.16 *4*	10.16 *258*	19.41 *493*	16.26 *413*	22.68 *576*	7.60 *193*	4.65 *118*	4.65 *118*	2.28 *58*

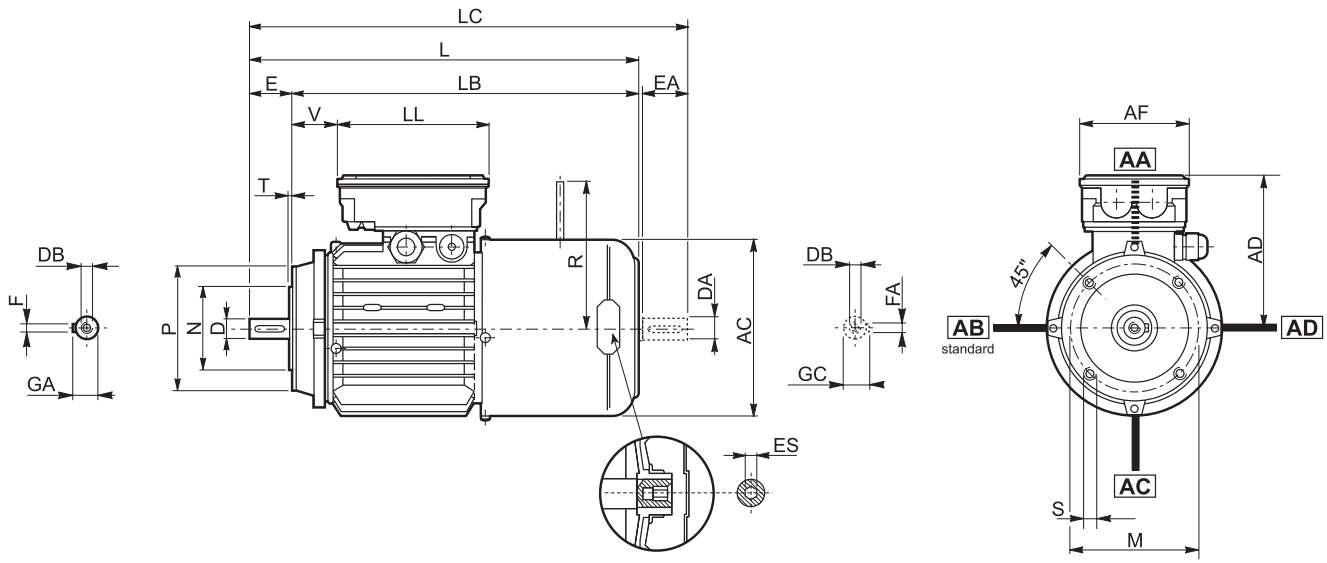
Dimensions are $\frac{\text{inch}}{mm}$



	Shaft					Flange						Motor							
	D **DA**	**E** **EA**	**DB**	**GA** **GC**	**F** **FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BN 56	0.35 *9*	0.79 *20*	*M3*	0.40 *10.2*	0.12 *3*	3.94 *100*	3.15 *80*	4.72 *120*	0.28 *7*	0.12 *3*	0.31 *8*	4.33 *110*	7.28 *185*	6.50 *165*	8.15 *207*	3.58 *91*	2.91 *74*	3.15 *80*	1.34 *34*
BN 63	0.43 *11*	0.91 *23*	*M4*	0.49 *12.5*	0.16 *4*	4.53 *115*	3.74 *95*	5.51 *140*	0.37 *9.5*	0.12 *3*	0.39 *10*	4.76 *121*	8.15 *207*	7.24 *184*	9.13 *232*	3.74 *95*	2.91 *74*	3.15 *80*	1.02 *26*
BN 71	0.55 *14*	1.18 *30*	*M5*	0.63 *16*	0.20 *5*	5.12 *130*	4.33 *110*	6.30 *160*	0.37 *9.5*	0.12 *3*	0.39 *10*	5.43 *138*	9.80 *249*	8.62 *219*	11.06 *281*	4.25 *108*	2.91 *74*	3.15 *80*	1.46 *37*
BN 80	0.75 *19*	1.57 *40*	*M6*	0.85 *21.5*	0.24 *6*	6.50 *165*	5.12 *130*	7.87 *200*	0.45 *11.5*	0.14 *3.5*	0.45 *11.5*	6.14 *156*	10.79 *274*	9.21 *234*	12.40 *315*	4.69 *119*	2.91 *74*	3.15 *80*	1.50 *38*
BN 90	0.94 *24*	1.97 *50*	*M8*	1.06 *27*	0.31 *8*	6.50 *165*	5.12 *130*	7.87 *200*	0.45 *11.5*	0.14 *3.5*	0.45 *11.5*	6.93 *176*	12.83 *326*	10.87 *276*	14.88 *378*	5.24 *133*	3.86 *98*	3.86 *98*	1.73 *44*
BN 100	1.10 *28*	2.36 *60*	*M10*	1.22 *31*	0.31 *8*	8.46 *215*	7.09 *180*	9.84 *250*	0.55 *14*	0.16 *4*	0.55 *14*	7.68 *195*	14.45 *367*	12.09 *307*	16.89 *429*	5.59 *142*	3.86 *98*	3.86 *98*	1.97 *50*
BN 112	1.10 *28*	2.36 *60*	*M10*	1.22 *31*	0.31 *8*	8.46 *215*	7.09 *180*	9.84 *250*	0.55 *14*	0.16 *4*	0.59 *15*	8.62 *219*	15.16 *385*	12.80 *325*	17.64 *448*	6.18 *157*	3.86 *98*	3.86 *98*	2.05 *52*
BN 132	1.49 *38*	3.14 *80*	*M12*	1.61 *41*	0.39 *10*	10.43 *265*	9.05 *230*	11.81 *300*	0.55 *14*	0.15 *4*	0.62 *16*	10.15 *258*	19.40 *493*	16.25 *413*	22.67 *576*	7.59 *193*	4.64 *118*	4.64 *118*	2.28 *58*
BN 160 MR	1.65 *42*	4.33 *110*	*M16*	1.77 *45*	0.47 *12*	11.81 *300*	9.84 *250*	13.77 *350*	0.72 *18.5*	0.19 *5*	0.59 *15*	10.15 *258*	22.12 *562*	17.79 *452*	25.39 *645*	7.59 *193*	4.64 *118*	4.64 *118*	8.58 *218*
	1.49 *38 (1)*	3.14 *80 (1)*	*M12 (1)*	1.61 *41 (1)*	0.39 *10 (1)*														
BN 160 M **BN 160 L**	1.65 *42*	4.33 *110*	*M16*	1.77 *45*	0.47 *12*	11.81 *300*	9.84 *250*	13.77 *350*	0.72 *18.5*	0.19 *5*	0.59 *15*	1.22 *310*	23.46 *596*	19.13 *486*	26.77 *680*	9.64 *245*	7.36 *187*	7.36 *187*	2.00 *51*
	1.49 *38(1)*	3.14 *80 (1)*	*M12 (1)*	1.61 *41 (1)*	0.39 *10 (1)*														
BN 180 M	1.88 *48*	4.33 *110*	*M16*	2.02 *51.5*	0.55 *14*	11.81 *300*	9.84 *250*	13.77 *350*	0.72 *18.5*	0.19 *5*	0.59 *15*	1.22 *310*	25.19 *640*	20.86 *530*	28.50 *724*	9.64 *245*	7.36 *187*	7.36 *187*	2.00 *51*
	1.49 *38 (1)*	4.33 *110 (1)*	*M12 (1)*	1.61 *41 (1)*	0.39 *10 (1)*														
BN 180 L	1.88 *48*	4.33 *110*	*M16*	2.02 *51.5*	0.55 *14*	11.81 *300*	9.84 *250*	13.77 *350*	0.72 *18.5*	0.19 *5*	0.70 *18*	13.70 *348*	27.87 *708*	23.54 *598*	32.40 *823*	10.27 *261*	7.36 *187*	7.36 *187*	2.04 *52*
	1.65 *42 (1)*	4.33 *110 (1)*	*M16 (1)*	1.77 *45 (1)*	0.47 *12 (1)*														
BN 200 L	2.16 *55*	4.33 *110*	*M20*	2.32 *59*	0.62 *16*	13.77 *350*	11.81 *300*	15.74 *400*	0.72 *18.5*	0.19 *5*	0.70 *18*	13.70 *348*	28.42 *722*	24.09 *612*	32.95 *837*	10.27 *261*	7.36 *187*	7.36 *187*	2.59 *66*
	1.65 *42 (1)*	4.33 *110 (1)*	*M16 (1)*	1.77 *45 (1)*	0.47 *12 (1)*														

1) These values refer to the rear shaft end.

Dimensions are $\frac{\text{inch}}{mm}$

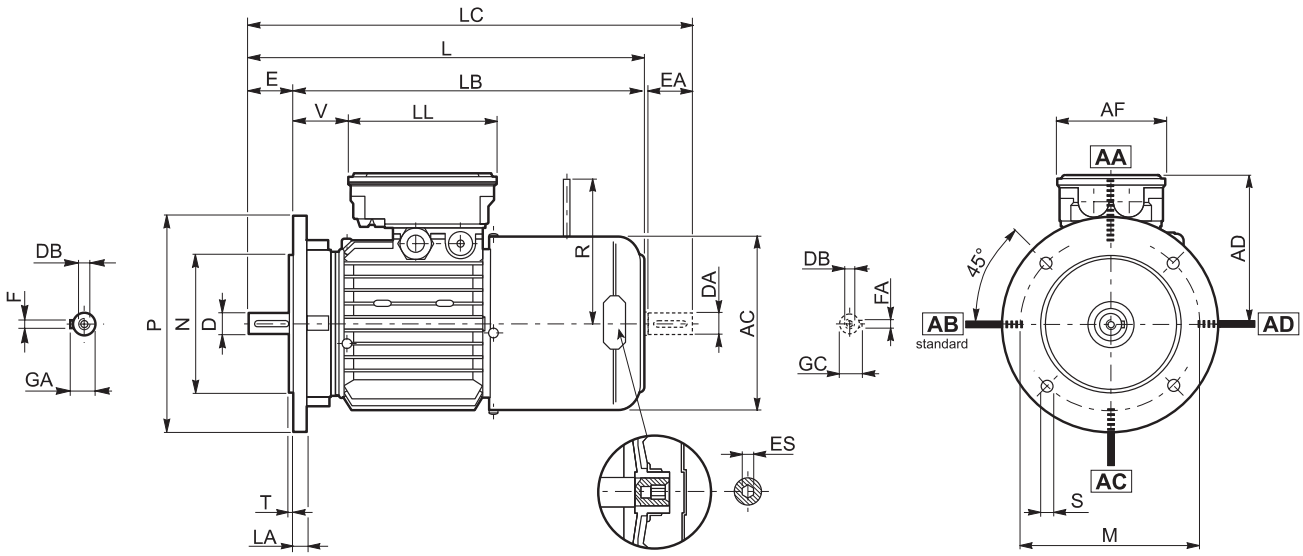


	Shaft					Flange					Motor									
	D **DA**	**E** **EA**	**DB**	**GA** **GC**	**F** **FA**	**M**	**N**	**P**	**S**	**T**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**	**R**	**ES**
BN 63	0.43 *11*	0.91 *23*	*M4*	0.49 *12.5*	0.16 *4*	2.95 *75*	2.36 *60*	3.54 *90*	*M5*	0.10 *2.5*	4.76 *121*	10.71 *272*	9.80 *249*	11.69 *297*	4.69 *119*	3.86 *98*	5.24 *133*	0.55 *14*	3.78 *96*	0.20 *5*
BN 71	0.55 *14*	1.18 *30*	*M5*	0.63 *16*	0.20 *5*	3.35 *85*	2.76 *70*	4.13 *105*	*M6*	0.10 *2.5*	5.43 *138*	12.20 *310*	11.02 *280*	13.46 *342*	5.20 *132*	3.86 *98*	5.24 *133*	0.98 *25*	4.06 *103*	0.20 *5*
BN 80	0.75 *19*	1.57 *40*	*M6*	0.85 *21.5*	0.24 *6*	3.94 *100*	3.15 *80*	4.72 *120*	*M6*	0.12 *3*	6.14 *156*	13.62 *346*	12.05 *306*	15.28 *388*	5.63 *143*	3.86 *98*	5.24 *133*	1.61 *41*	5.08 *129*	0.20 *5*
BN 90 S	0.94 *24*	1.97 *50*	*M8*	1.06 *27*	0.31 *8*	4.53 *115*	3.74 *95*	5.51 *140*	*M8*	0.12 *3*	6.93 *176*	16.10 *409*	14.13 *359*	18.15 *461*	5.75 *146*	4.33 *110*	6.50 *165*	1.54 *39*	5.08 *129*	0.24 *6*
BN 90 L	0.94 *24*	1.97 *50*	*M8*	1.06 *27*	0.31 *8*	4.53 *115*	3.74 *95*	5.51 *140*	*M8*	0.12 *3*	6.93 *176*	16.10 *409*	14.13 *359*	18.15 *461*	5.75 *146*	4.33 *110*	6.50 *165*	1.54 *39*	6.30 *160*	0.24 *6*
BN 100	1.10 *28*	2.36 *60*	*M10*	1.22 *31*	0.31 *8*	5.12 *130*	4.33 *110*	6.30 *160*	*M8*	0.14 *3.5*	7.68 *195*	18.03 *458*	15.67 *398*	20.51 *521*	6.10 *155*	4.33 *110*	6.50 *165*	2.44 *62*	6.30 *160*	0.24 *6*
BN 112	1.10 *28*	2.36 *60*	*M10*	1.22 *31*	0.31 *8*	5.12 *130*	4.33 *110*	6.30 *160*	*M8*	0.14 *3.5*	8.62 *219*	19.06 *484*	16.69 *424*	21.54 *547*	6.69 *170*	4.33 *110*	6.50 *165*	2.87 *73*	7.83 *199*	0.24 *6*
BN 132	1.50 *38*	3.15 *80*	*M12*	1.61 *41*	0.39 *10*	6.50 *165*	5.12 *130*	7.87 *200*	*M10*	0.16 *4*	10.16 *258*	23.74 *603*	20.59 *523*	27.01 *686*	8.27 *210*	5.51 *140*	7.40 *188*	4.80 *122*	8.03 *204 (1)*	0.24 *6*

1) For FD07 brake value R=226

ES hexagon is not supplied with PS option

Dimensions are $\frac{\text{inch}}{mm}$

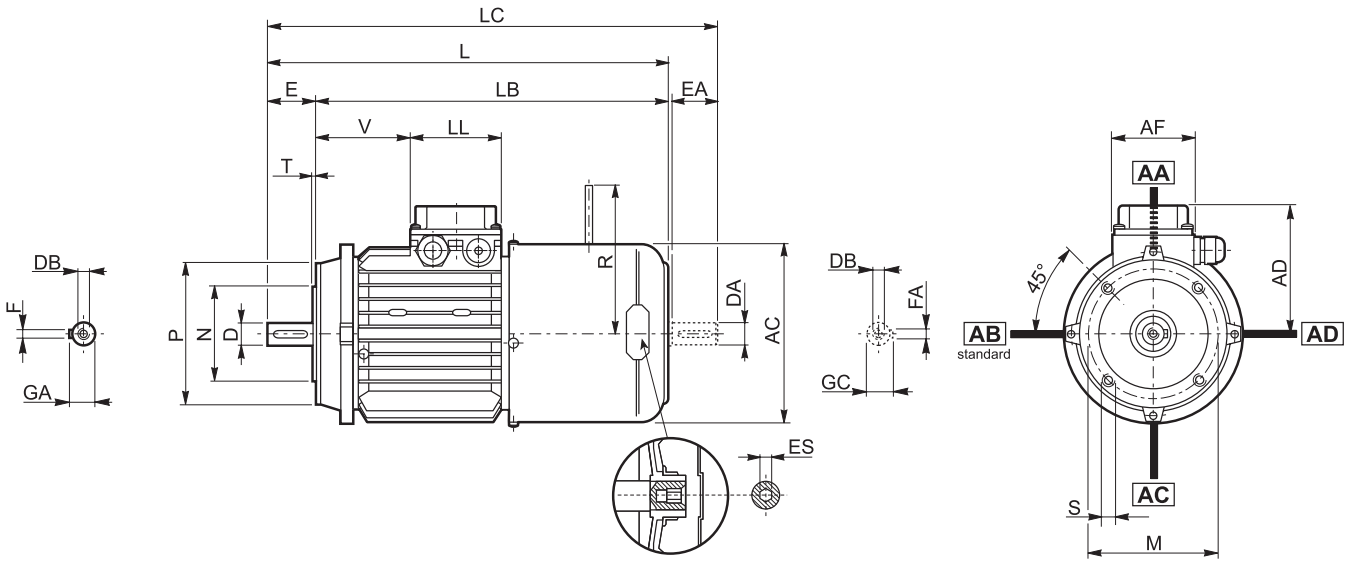


	Shaft					Flange						Motor									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R	ES
BN 63	0.43 *11*	0.91 *23*	*M4*	0.49 *12.5*	0.16 *4*	4.53 *115*	3.74 *95*	5.51 *140*	0.37 *9.5*	0.12 *3*	0.39 *10*	4.76 *121*	10.71 *272*	9.80 *249*	11.69 *297*	4.69 *119*	3.86 *98*	5.24 *133*	0.55 *14*	3.78 *96*	0.20 *5*
BN 71	0.55 *14*	1.18 *30*	*M5*	0.63 *16*	0.20 *5*	5.12 *130*	4.33 *110*	6.30 *160*	0.37 *9.5*	0.14 *3.5*	0.39 *10*	5.43 *138*	12.20 *310*	11.02 *280*	13.46 *342*	5.20 *132*	3.86 *98*	5.24 *133*	0.98 *25*	4.06 *103*	0.20 *5*
BN 80	0.75 *19*	1.57 *40*	*M6*	0.85 *21.5*	0.24 *6*	6.50 *165*	5.12 *130*	7.87 *200*	0.45 *11.5*	0.14 *3.5*	0.45 *11.5*	6.14 *156*	13.62 *346*	12.05 *306*	15.28 *388*	5.63 *143*	3.86 *98*	5.24 *133*	1.61 *41*	5.08 *129*	0.20 *5*
BN 90 S	0.94 *24*	1.97 *50*	*M8*	1.06 *27*	0.31 *8*	6.50 *165*	5.12 *130*	7.87 *200*	0.45 *11.5*	0.14 *3.5*	0.45 *11.5*	6.93 *176*	16.10 *409*	14.13 *359*	18.15 *461*	5.75 *146*	4.33 *110*	6.50 *165*	1.54 *39*	5.08 *129*	0.24 *6*
BN 90 L	0.94 *24*	1.97 *50*	*M8*	1.06 *27*	0.31 *8*	6.50 *165*	5.12 *130*	7.87 *200*	0.45 *11.5*	0.14 *3.5*	0.45 *11.5*	6.93 *176*	16.10 *409*	14.13 *359*	18.15 *461*	5.75 *146*	4.33 *110*	6.50 *165*	1.54 *39*	6.30 *160*	0.24 *6*
BN 100	1.10 *28*	2.36 *60*	*M10*	1.22 *31*	0.31 *8*	8.46 *215*	7.09 *180*	9.84 *250*	0.55 *14*	0.16 *4*	0.55 *14*	7.68 *195*	18.03 *458*	15.67 *398*	20.51 *521*	6.10 *155*	4.33 *110*	6.50 *165*	2.44 *62*	6.30 *160*	0.24 *6*
BN 112	1.10 *28*	2.36 *60*	*M10*	1.22 *31*	0.31 *8*	8.46 *215*	7.09 *180*	9.84 *250*	0.55 *14*	0.16 *4*	0.59 *15*	8.62 *219*	19.06 *484*	16.69 *424*	21.54 *547*	6.69 *170*	4.33 *110*	6.50 *165*	2.87 *73*	7.83 *199*	0.24 *6*
BN 132	1.49 *38*	3.14 *80*	*M12*	1.61 *41*	0.39 *10*	10.43 *265*	9.05 *230*	11.81 *300*	0.55 *14*	0.15 *4*	0.62 *16*	10.15 *258*	23.74 *603*	20.59 *523*	27.00 *686*	8.27 *210*	5.51 *140*	7.40 *188*	4.80 *122*	8.03 *204 (2)*	0.23 *6*
BN 160 MR	*1.65* *42*	*4.33* *110*	*M16*	*1.77* *45*	0.47 *12*	11.81 *300*	9.84 *250*	13.77 *350*	0.72 *18.5*	0.19 *5*	0.59 *15*	10.15 *258*	26.45 *672*	22.12 *562*	29.72 *755*	8.27 *210*	5.51 *140*	7.40 *188*	6.34 *161*	8.89 *226*	0.23 *6*
	1.49 *38 (1)*	3.14 *80 (1)*	*M12 (1)*	1.61 *41 (1)*	0.39 *10 (1)*																
BN 160 M **BN 160 L**	1.65 *42*	4.33 *110*	*M16*	1.77 *45*	0.47 *12*	11.81 *300*	9.84 *250*	13.77 *350*	0.72 *18.5*	0.19 *5*	0.59 *15*	1.22 *310*	28.97 *736*	24.64 *626*	32.28 *820*	9.64 *245*	7.36 *187*	7.36 *187*	2.00 *51*	8.89 *226*	—
	1.49 *38 (1)*	3.14 *80 (1)*	*M12 (1)*	1.61 *41 (1)*	0.39 *10 (1)*																
BN 180 M	1.88 *48*	4.33 *110*	*M16*	2.02 *51.5*	0.55 *14*	11.81 *300*	9.84 *250*	13.77 *350*	0.72 *18.5*	0.19 *5*	0.59 *15*	1.22 *310*	30.70 *780*	26.37 *670*	34.01 *864*	9.64 *245*	7.36 *187*	7.36 *187*	2.00 *51*	8.89 *226*	—
	1.49 *38 (1)*	3.14 *80 (1)*	*M12 (1)*	1.61 *41 (1)*	0.39 *10 (1)*																
BN 180 L	1.88 *48*	4.33 *110*	*M16*	2.02 *51.5*	0.55 *14*	11.81 *300*	9.84 *250*	13.77 *350*	0.72 *18.5*	0.19 *5*	0.70 *18*	13.70 *348*	34.09 *866*	29.76 *756*	38.62 *981*	10.27 *261*	7.36 *187*	7.36 *187*	2.04 *52*	12.00 *305*	—
	1.65 *42 (1)*	4.33 *110 (1)*	*M16 (1)*	1.77 *45 (1)*	0.47 *12 (1)*																
BN 200 L	2.16 *55*	4.33 *110*	*M20*	2.32 *59*	0.62 *16*	13.77 *350*	11.81 *300*	15.74 *400*	0.72 *18.5*	0.19 *5*	0.70 *18*	13.70 *348*	34.56 *878*	30.23 *768*	39.09 *993*	10.27 *261*	7.36 *187*	7.36 *187*	2.51 *64*	*12.00* *305*	—
	1.65 *42 (1)*	4.33 *110 (1)*	*M16 (1)*	1.77 *45 (1)*	0.47 *12 (1)*																

1) These values refer to the rear shaft end.
2) For FD07 brake value R=226

ES hexagon is not supplied with PS option

Dimensions are $\frac{\text{inch}}{mm}$



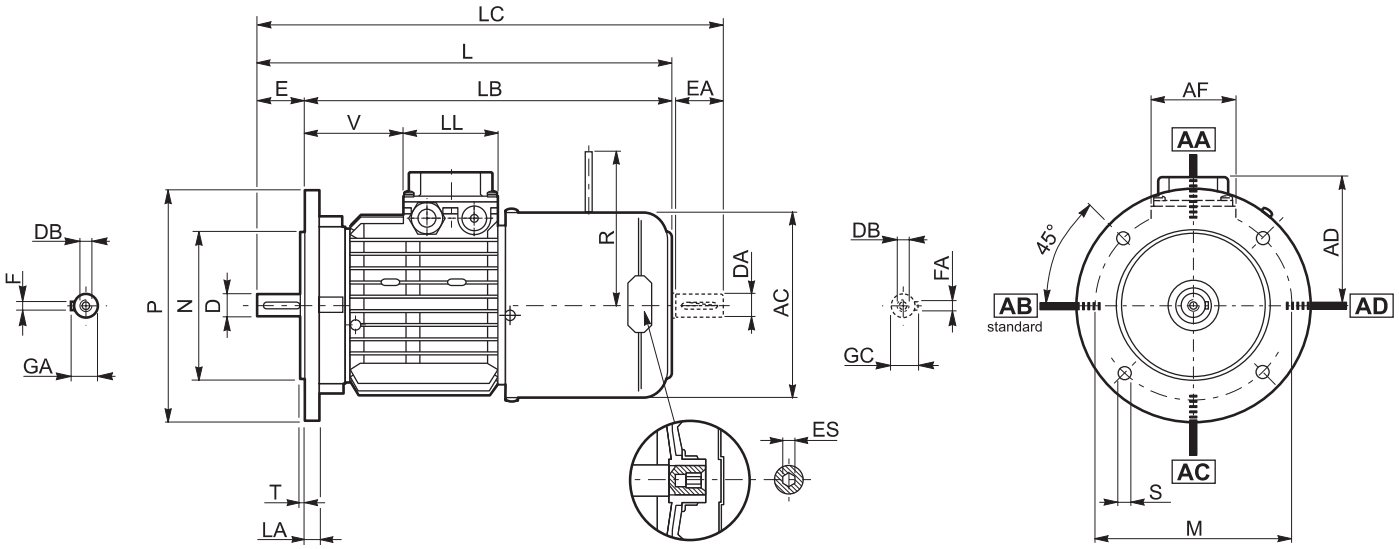
	Shaft					Flange					Motor									
	D **DA**	**E** **EA**	**DB**	**GA** **GC**	**F** **FA**	**M**	**N**	**P**	**S**	**T**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**	**R**	**ES**
BN 63	0.43 *11*	0.91 *23*	*M4*	0.49 *12.5*	0.16 *4*	2.95 *75*	2.36 *60*	3.54 *90*	*M5*	0.10 *2.5*	4.76 *121*	10.71 *272*	9.80 *249*	4.69 *119*	3.74 *95*	2.91 *74*	3.15 *80*	1.02 *26*	4.57 *116*	0.20 *5*
BN 71	0.55 *14*	1.18 *30*	*M5*	0.63 *16*	0.20 *5*	3.35 *85*	2.76 *70*	4.13 *105*	*M6*	0.10 *2.5*	5.43 *138*	12.20 *310*	11.02 *280*	13.46 *342*	4.25 *108*	2.91 *74*	3.15 *80*	2.68 *68*	4.88 *124*	0.20 *5*
BN 80	0.75 *19*	1.57 *40*	*M6*	0.85 *21.5*	0.24 *6*	3.94 *100*	3.15 *80*	4.72 *120*	*M6*	0.12 *3*	6.14 *156*	13.62 *346*	12.05 *306*	15.28 *388*	4.69 *119*	2.91 *74*	3.15 *80*	3.27 *83*	5.28 *134*	0.20 *5*
BN 90	0.94 *24*	1.97 *50*	*M8*	1.06 *27*	0.31 *8*	4.53 *115*	3.74 *95*	5.51 *140*	*M8*	0.12 *3*	6.93 *176*	16.10 *409*	14.13 *359*	18.15 *461*	5.24 *133*	3.86 *98*	3.86 *98*	3.74 *95*	6.30 *160*	0.24 *6*
BN 100	1.10 *28*	2.36 *60*	*M10*	1.22 *31*	0.31 *8*	5.12 *130*	4.33 *110*	6.30 *160*	*M8*	0.14 *3.5*	7.68 *195*	18.03 *458*	15.67 *398*	20.51 *521*	5.59 *142*	3.86 *98*	3.86 *98*	4.69 *119*	6.30 *160*	0.24 *6*
BN 112	1.10 *28*	2.36 *60*	*M10*	1.22 *31*	0.31 *8*	5.12 *130*	4.33 *110*	6.30 *160*	*M8*	0.14 *3.5*	8.62 *219*	19.06 *484*	16.69 *424*	21.54 *547*	6.18 *157*	3.86 *98*	3.86 *98*	5.04 *128*	7.80 *198*	0.24 *6*
BN 132	1.50 *38*	3.15 *80*	*M12*	1.61 *41*	0.39 *10*	6.50 *165*	5.12 *130*	7.87 *200*	*M10*	0.16 *4*	10.16 *258*	23.74 *603*	20.59 *523*	27.01 *686*	7.60 *193*	4.65 *118*	4.65 *118*	7.09 *180*	7.87 *200 (1)*	0.24 *6*

1) For FD07 brake value R=226

ES hexagon is not supplied with PS option.

For motors type BN..FA, the terminal box sizes AD, AF, LL, V are the same as for BN..FD.

Dimensions are $\frac{\text{inch}}{mm}$



	Shaft					Flange						Motor									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R	ES
BN 63	0.43 *11*	0.91 *23*	*M4*	0.49 *12.5*	0.16 *4*	4.53 *115*	3.74 *95*	5.51 *140*	0.37 *9.5*	0.12 *3*	0.39 *10*	4.76 *121*	10.71 *272*	9.80 *249*	11.69 *297*	3.74 *95*	2.91 *74*	3.15 *80*	1.02 *26*	4.57 *116*	0.20 *5*
BN 71	0.55 *14*	1.18 *30*	*M5*	0.63 *16*	0.20 *5*	5.12 *130*	4.33 *110*	6.30 *160*	0.37 *9.5*	0.14 *3.5*	0.39 *10*	5.43 *138*	12.20 *310*	11.02 *280*	13.46 *342*	4.25 *108*	2.91 *74*	3.15 *80*	2.68 *68*	4.88 *124*	0.20 *5*
BN 80	0.75 *19*	1.57 *40*	*M6*	0.85 *21.5*	0.24 *6*	6.50 *165*	5.12 *130*	7.87 *200*	0.45 *11.5*	0.14 *3.5*	0.45 *11.5*	6.14 *156*	13.62 *346*	12.05 *306*	15.28 *388*	4.69 *119*	2.91 *74*	3.15 *80*	3.27 *83*	5.28 *134*	0.20 *5*
BN 90	0.94 *24*	1.97 *50*	*M8*	1.06 *27*	0.31 *8*	6.50 *165*	5.12 *130*	7.87 *200*	0.45 *11.5*	0.14 *3.5*	0.45 *11.5*	6.93 *176*	16.10 *409*	14.13 *359*	18.15 *461*	5.24 *133*	3.86 *98*	3.86 *98*	3.74 *95*	6.30 *160*	0.24 *6*
BN 100	1.10 *28*	2.36 *60*	*M10*	1.22 *31*	0.31 *8*	8.46 *215*	7.09 *180*	9.84 *250*	0.55 *14*	0.16 *4*	0.55 *14*	7.68 *195*	18.03 *458*	15.67 *398*	20.51 *521*	5.59 *142*	3.86 *98*	3.86 *98*	4.69 *119*	6.30 *160*	0.24 *6*
BN 112	1.10 *28*	2.36 *60*	*M10*	1.22 *31*	0.31 *8*	8.46 *215*	7.09 *180*	9.84 *250*	0.55 *14*	0.16 *4*	0.59 *15*	8.62 *219*	19.06 *484*	16.69 *424*	21.54 *547*	6.18 *157*	3.86 *98*	3.86 *98*	5.04 *128*	7.80 *198*	0.24 *6*
BN 132	1.49 *38*	3.14 *80*	*M12*	1.61 *41*	0.39 *10*	10.43 *265*	9.05 *230*	11.81 *300*	0.55 *14*	0.15 *4*	0.62 *16*	10.15 *258*	23.74 *603*	20.59 *523*	27.00 *686*	7.59 *193*	4.64 *118*	4.64 *118*	7.08 *180*	7.87 *200 (2)*	0.23 *6*
BN 160 MR	*1.65* *42*	*4.33* *110*	*M16*	*1.77* *45*	0.47 *12*	11.81 *300*	9.84 *250*	13.77 *350*	0.72 *18.5*	0.19 *5*	0.59 *15*	10.15 *258*	26.45 *672*	22.12 *562*	29.72 *755*	7.59 *193*	4.64 *118*	4.64 *118*	8.58 *218*	8.54 *217*	0.23 *6*
	1.49 *38 (1)*	3.14 *80 (1)*	*M12 (1)*	1.61 *41 (1)*	0.39 *10 (1)*																
BN 160 M **BN 160 L**	1.65 *42*	4.33 *110*	*M16*	1.77 *45*	0.47 *12*	11.81 *300*	9.84 *250*	13.77 *350*	0.72 *18.5*	0.19 *5*	0.59 *15*	1.22 *310*	28.97 *736*	24.64 *626*	32.28 *820*	9.64 *245*	7.36 *187*	7.36 *187*	2.00 *51*	9.72 *247*	—
	1.49 *38 (1)*	3.14 *80 (1)*	*M12 (1)*	1.61 *41 (1)*	0.39 *10 (1)*																
BN 180 M	1.88 *48*	4.33 *110*	*M16*	2.02 *51.5*	0.55 *14*	11.81 *300*	9.84 *250*	13.77 *350*	0.72 *18.5*	0.19 *5*	0.59 *15*	1.22 *310*	30.70 *780*	26.37 *670*	34.01 *864*	9.64 *245*	7.36 *187*	7.36 *187*	2.00 *51*	9.72 *247*	—
	1.49 *38 (1)*	3.14 *80 (1)*	*M12 (1)*	1.61 *41 (1)*	0.39 *10 (1)*																

1) These values refer to the rear shaft end.

2) For FD07 brake value R=226

ES hexagon is not supplied with PS option.

Dimensions AD, AF, LL and V, relevant to terminal box of motors BN…FA featuring the separate brake supply (option SA), are coincident with corresponding dimensions of same-size BN…FD motors.

Dimensions are $\frac{\text{inch}}{mm}$

R7	
	Description
...	Corrected length of motor M1 wherever listed in the catalogue.
95	Banned some ratios formerly allowed in the combination of C11…C35 with M1 motors.

091126