



STOCK DC MOTORS

METRIC (IEC) FRAME • THYRISTOR RATED

DC METRIC (IEC) FRAME MOTORS IP54

General Specifications:

These metric dimensioned motors are built to IEC 34-1 electrical and mechanical standards.

The IEC 63 and smaller frames are stocked with an integral B5 flange or B14 face less base.

An optional B3 rigid base kit is available.

A unique modular approach for IEC 71 frame and larger allows the motor to be field modified to B3 rigid base mounted construction, B5 flange mounted or B14 face mounted construction using conversion kits. Please note that one or more of the mounting kits must be used with IEC motors of these frame sizes. See listing on following page for B5 flange and B14 face kits, as well as B3 rigid base kits.

Electrical & Mechanical Features:

A terminal board is provided for connections. All fasteners are metric. Electrical and mechanical features are the same as listed for the motors on the opposite page. Tachometer mounting kits are available—please contact LEESON for data.



B5 IEC 56 & 63



B14 IEC 56 & 63



WASHGUARD IEC

TOTALLY ENCLOSED • THYRISTOR RATED 180V_C WITH B5 FLANGE

Watts	HP	Full Load RPM	IEC Frame	Catalog Number	App. Wgt. (Kg.)	F.L. Amps DC	C Dim. (mm)
60	1/12	1800	56	M1130146	3,6	0,5	159
90	1/8	1800	56	M1130147 ¹	5,0	0,7	192
120	1/6	1800	63	M1130148	5,0	0,9	223
180	1/4	3000	63	M1130152 ¹	5,9	1,3	223
		1800	63	M1130149	5,9	1,3	253
250	1/3	3000	63	M1130153	5,9	1,7	253

These mountings have accommodations for B3 base mountings with the kits shown on page 5.

For dimensions, see drawing **E** on page 33.

TOTALLY ENCLOSED • THYRISTOR RATED 180V_C WITH B14 FACE

Watts	HP	Full Load RPM	IEC Frame	Catalog Number	App. Wgt. (Kg.)	F.L. Amps DC	C Dim. (mm)
60	1/12	3000	56	M1110024 ¹	2,7	0,4	177
		1800	56	M1130136 ¹	3,6	0,5	159
90	1/8	3000	56	M1130140 ¹	4,1	0,7	171
		1800	56	M1130137 ¹	4,5	0,7	192
120	1/6	3000	56	M1130141 ¹	4,5	0,9	192
		1800	63	M1130138	5,0	0,9	223
180	1/4	3000	63	M1130142 ¹	5,4	1,3	223
		1800	63	M1130139	5,9	1,3	253
250	1/3	3000	63	M1130143	5,9	1,7	253

These mountings have accommodations for B3 base mountings with the kits shown on page 5.

For dimensions, see drawing **F** on page 33.

WASHGUARD® • IEC FRAME • TENV IP55 B5 FLANGE WITH REMOVABLE B3 BASE_s THYRISTOR RATED 180V

kW	HP	Full Load RPM	IEC Frame	Catalog Number	App. Wgt. (Kg.)	F.L. Amps DC	C Dim. (mm)
0,37	1/2	1750	71	098040	10,0	2,5	299
0,55	3/4	1750	80	108407 ^①	14,5	3,5	372

For dimensions, see drawing **H** on page 33.

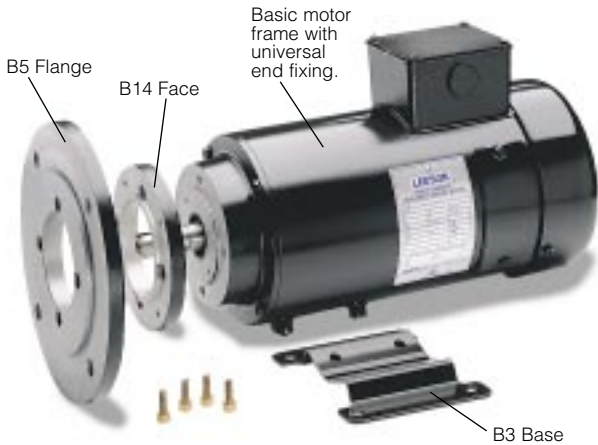
^c For 230 VAC input controls.
¹ These motors are totally enclosed, non-ventilated. Other ratings utilize IC41 cooling—external cooling fan on motor shaft.
^① These motors are totally enclosed, fan cooled, utilizing IC41 cooling — external cooling fan on motor shaft. Others are totally enclosed non-ventilated. WASHGUARD® fan covers are stainless steel.
[▲] These WASHGUARD® motors are modular design but stocked with B5 flange and B3 foot. The foot is removable. The B5 flange can be replaced with a B14 face or other diameter B5 flanges noted on page 5.

MODULAR DESIGN CONCEPT

LEESON's larger horsepower thyristor rated motors, in IEC frames 71 through 100, utilize a unique modular mounting design. The basic frame is fitted with a universal end fixing and also has provisions to accept a rigid foot.

The basic frame can be field-adapted for use as a B3 footed motor, B5 or B14 flange or face mounted motor or a combination such as B3 foot with B5 flange.

The universal end fixing of the frame will accept the IEC 71, 80, 90, 100 or 112 frame B5 flange or B14 face adapter packages.



METRIC FRAME FLANGE AND FACE KITS (FRAMES 71-112)

An advantage of LEESON'S modular design concept is the possible use of a different diameter B5 flange or B14 face than is normally assigned to a motor by IEC dimensional standards. This flexibility makes it possible to accommodate a wide variety of gear reducers, pumps and similar close coupled motor mounted loads.



B5 FLANGE KITS

IEC Frame	Catalog Number	Bulk Pack (10) Catalog Number	BD Flange Dia. (mm)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)
71	175106	175160	160	110	9	130
80	175108	175161	200	130	12	165
90S/90L	175108	175161	200	130	12	165
100L/112M	175137	175162	250	180	15	215

B14 FACE KITS

IEC Frame	Catalog Number	Bulk Pack (10) Catalog Number	BD Flange Dia. (mm)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)
71	175107	175163	105	70	6	85
80	175109	175164	120	80	6	100
90S/90L	175129	175165	140	95	6	115
100L/112M	175130	175166	160	110	6	130

METRIC (IEC) FRAME THYRISTOR RATED 180V_C • TEFC MODULAR DESIGN

kW	HP	Full Load RPM	IEC Frame	Catalog Number	App. Wgt. (Kg.)	F.L. Amps DC	C Dim. (mm)
0,25	1/3	1800	71	098014	10,4	1,7	287
		3000	71	098016	9,1	2,5	274
0,37	1/2	1800	71	098015	10,9	2,5	299
		3000	71	098017	10,4	3,6	299
0,55	3/4	1800	80	108369	15,4	3,5	372
		3000	80	108372	20,4	4,9	372
0,75	1	1800	80	108370	21,8	4,6	435
		3000	80	108373	20,0	7,1	385
1,1	1 1/2	1800	80	108371	22,7	7,0	435
		1800	90L	118007	29,0	7,0	482
		3000	90L	118009	32,7	8,6	469
1,5	2	1800	90L	118008	32,7	9,5	520
		3000	90L	118010	37,2	14,0	495
2,2	3	1800	112M	118014	37,2	14,0	498

IMPORTANT: These round body motors require either a B3 rigid base, B14 face or B5 flange kit. Catalog number 118014 comes complete with IEC 112 B14 face and B3 foot; shaft diameter is 24mm.

For dimensions, see drawings G, H, I or J on page 33.

C Control input is 230 volts AC.

METRIC (IEC) FRAME LOW VOLTAGE 24V • TEFC • MODULAR DESIGN

kW	HP	Full Load RPM	IEC Frame	Catalog Number	App. Wgt. (Kg.)	F.L. Amps DC	C Dim. (mm)
0,06	1/12	3000	56	M1110025^	3,2	3,3	152
		1800	56	M1110026^	3,2	3,4	177
0,18	1/4	3000	63	M1130206*	5,9	11,0	197
		3000	63	M1130296^	5,9	11,0	197
		1800	63	M1130207*	5,9	10,0	222
		1800	63	M1130297^	5,9	10,0	222
		1800	71	098065	9,1	11,0	274
		3000	71	098066	10,0	20,0	286
0,37	1/2	1800	71	098067	10,9	20,0	312
		3000	80	108456+	15,0	40,0	359
0,75	1	1800	80	108455+	20,0	39,0	372
		3000	80	108457+	21,8	65,0	397
1,5	2	3000	80	108458+	23,1	78,0	435

IMPORTANT: These round body motors (IEC71 and 80) require either B14 face, B5 flange or B3 foot. See listings below.

For dimensions, see drawings E, F, G, H or I on page 33.

* Dedicated B5 Flange
 ^ Dedicated B14 Face
 + Studs at 12:00



B3

B3 FOOT MOUNTING

All motors are stocked with provisions to accommodate B3 foot mountings.

IEC Frame	Catalog No.	Bulk Pack (10) Catalog No.
56	175142	175167
63	175143	175168
71	175144	175169
80	175145	175170
90	175146	175171



STOCK DC MOTORS LOW VOLTAGE 12 & 24 VOLTS

METRIC (IEC) FRAME

Specially designed low voltage DC motors for use in OEM applications. Combination of features and low cost makes these motors excellent for many uses. All feature IP44 (TENV) enclosure and dedicated B14 face mount. Rated S1 for continuous duty, and zinc plated steel frame construction.



LOW VOLTAGE 12 & 24V • TENV B14 FACE MOUNT

Watts	HP	Full Load RPM	IEC Frame	Catalog Number	App. Wgt. (Kg.)	Arm. Volts DC	F.L. Amps DC	C Dim. (mm)
50	1/15	3000	56	980.159	2,3	12	6,0	116,6
		3000	56	980.143	2,3	24	3,2	116,6
100	1/8	3000	56	970.600	3,0	12	12,0	140,5
		3000	56	970.601	3,0	24	5,30	140,5
125	1/6	3000	56	970.620	3,5	12	13,0	153,0
		3000	56	970.621	3,5	24	6,50	153,0

For dimensions, see drawings **O** & **P** on page 35.

NEMA FRAME LOW VOLTAGE MOTORS



General Specifications:

Low voltage permanent magnet DC motors are suitable for installations having battery or solar powered operations, or generator supplied low voltage DC.

Mechanical Features:

Unique brush holder design provides easy access to brushes and integral, constant pressure brush/spring assembly for servicing. Larger over-sized brushes assure longer brush life. Heavy-duty, stamped steel, bolt-on base (removable). NEMA C face mounting flange at no additional cost. High strength rolled steel frame. Rugged die cast aluminum endshields with steel bearing inserts. Permanently lubricated sealed ball bearings. May be converted to NEMA 48 frame base dimensions or NEMA 42/48 frame C face dimensions using modification kits noted on page 7.

Electrical Features:

High starting torques for heavy load applications. Linear speed/torque characteristics over entire speed range. Capable of dynamic braking for faster stops. Reversible rotation and simple two-lead connection. Convenient wiring access.

LOW VOLTAGE 12 & 24V • TENV NEMA C FACE WITH REMOVABLE BASE^Σ

kW	HP	Full Load RPM	NEMA Frame	Catalog Number	App. Wgt. (Kg.)	Arm. Volts DC	F.L. Amps DC	C Dim. (mm)
0,18	1/4	1800	S56C	108045 [Ⓞ]	9,5	12	21,0	265
		1800	S56C	108046 [Ⓞ]	10,0	12	27,0	291
0,25	1/3	1800	S56C	108050 [Ⓞ]	10,0	24	13,5	278
		1800	S56C	108051 [Ⓞ]	12,7	24	20,0	303
0,37	1/2	1800	S56C	108047 [Ⓞ]	12,7	12	39,0	316
		1800	S56C	108051 [Ⓞ]	12,7	24	20,0	303
0,55	3/4	1800	S56C	108048 ^u **	13,6	12	58,0	351
		1800	S56C	108052 ^{**}	13,2	24	29,0	325
0,75	1	1800	S56C	108322 ^u **	15,9	12	80,0	338
		1800	S56C	108053 ^u **	15,0	24	39,0	351

For dimensions, see drawing **L** on page 34.

SUB-FHP LOW VOLTAGE MOTORS

General Specifications:

Precision sub-fractional horsepower low voltage direct current permanent magnet motors designed for battery or solar powered operations, or generator supplied low voltage DC.

Mechanical Features:

Compact space saving designs. Standard conduit box simplifies connections. Ball bearings. Long-life brushes for demanding applications. Brushes easily replaced without disassembly of motor.

Electrical Features:

High starting torques for heavy load applications. Linear speed/torque characteristics over entire speed range. Capable of dynamic braking for faster stops. Reversible rotation from a simple two lead connection. Class F insulated with high temperature welded commutators.



LOW VOLTAGE 12 & 24V • TENV SQUARE FLANGE

Watts	HP [▲]	Full Load RPM	Frame	Catalog Number	App. Wgt. (Kg.)	Input Volts DC	F.L. Amps DC
37	1/20	1750	24CS	M1110006 [Ⓞ]	1,8	12	4,4
						24	
75	1/10	4200	31AS	M1120040	2,7	12	7,7
						24	
100	1/7	4200	31ES	M1120044	4,1	12	13,0
						24	
180	1/4	3500	31GS	M1120046	4,5	12	14,0
						24	
120	1/6	1800	31GS	M1120046	4,5	12	14,0
						24	
250	1/3	3900	31GS	M1120046	4,5	12	14,0
						24	

For dimensions, see drawing **A** on page 32.

[Ⓢ] These motors may be operated at 12, 24V, or at intermediate voltages between 12 and 24V, within horsepower ranges noted.

[Ⓞ] Built-in conduit box located at 12:00.

^u Studs at 12:00.

^Σ If base is removed, do not reinstall bolts without using washers to compensate for thickness of base.

^{**} These motors are totally enclosed fan cooled.

[Ⓟ] 24 frame motors have provision for an optional conduit box catalog number M1760000, see page 11.

NEMA FRAME MOTORS THYRISTOR RATED

General Specifications:

High voltage permanent magnet DC motors are typically used with a thyristor controller in applications requiring adjustable speed and constant torque throughout the speed range. They are also widely used in applications requiring dynamic braking or adjustable speed/ reversing capabilities.



Mechanical Features:

Low profile space-saving design. Unique brush holder design provides easy access to brushes and integral constant pressure brush/spring assembly for servicing. Large over-sized brushes assure longer brush life. Heavy-duty, stamped steel, bolt-on base (removable). NEMA C face mounting at no additional cost. Rugged die cast aluminum endshields with cast iron bearing inserts. Permanently lubricated sealed ball bearings. May be converted NEMA 48 base and/or C face using modification kits noted below.

Electrical Features:

Input power of 115 or 230 volts rectified AC when used with an appropriate thyristor control. Linear speed/torque characteristics over entire speed range. High starting torque for heavy load applications. Capable of dynamic braking for faster stops. Reversible rotation with simple two-lead connection.

PWM RATED PM DC MOTORS

The DC motors listed above have been designed for use on unfiltered thyristor type rectified AC input. These motors may also be used with PWM (pulse width modulated) type DC adjustable speed drives at a higher HP rating.

TACH ADAPTER KITS

All necessary parts to mount listed tachometers to stock TEFC thyristor motors. Consists of machined cast fan cover, coupling and hardware. Does not include tachometer. Tach adapter kit is not suitable for catalog number 108502.



Tachometer Type	Frame	Catalog Number	App. Wgt. (Kg.)
GE 5PY Series	SS56	175156	2,3
	S56	175193	2,3
	56/145	175158	2,3
Servo-tek	SS56	175157	3,6
	S56	175194	3,6
SA740 Series	S56	175194	3,6
	56/145	175159	3,6

◇ Addition of base kit will result in non-NEMA BA dimension of 69,9mm. Addition of C face kit will result in conduit box located at 1 o'clock facing lead end.

Σ If base is removed, do not reinstall bolts without using washers to compensate for thickness of base.

◀ NEMA 145TC face mounting with removable NEMA 182T rigid base.

n NEMA 145TC frame shaft 7/8" x 2 1/4" and NEMA 56 removable base.

TEFC • THYRISTOR RATED 90 & 180V NEMA 56C • C FACE WITH REMOVABLE BASEΣ

kW	HP	Full Load RPM	NEMA Frame	Catalog Number	App. Wgt. (Kg.)	Arm. Volts DC	Control Volts AC Input	F.L. Amps DC	C Dim. (mm)	
0,18	¼	1750	SS56C	098002	8,6	90	115	2,5	275	
		1750	SS56C	098003	10,0	180	230	1,4	287	
0,25	⅓	1750	SS56C	098004	10,4	90	115	3,5	287	
		1750	SS56C	098005	10,0	180	230	1,7	287	
0,37	½	2500	SS56C	098006	9,5	90	115	5,0	275	
		2500	SS56C	098007	10,0	180	230	2,5	275	
		1750	SS56C	098000	10,9	90	115	5,0	300	
		1750	S56C	108014	14,1	90	115	5,0	325	
	1750	SS56C	098008	11,3	180	230	2,5	300		
	1750	S56C	108015	13,6	180	230	2,5	325		
	0,55	¾	2500	SS56C	098009	11,3	90	115	7,6	300
			2500	S56C	108016	13,2	90	115	7,6	325
2500			SS56C	098010	11,3	180	230	3,8	300	
2500			S56C	108017	13,2	180	230	3,8	325	
1750		SS56C	098032	12,2	90	115	7,6	363		
1750		S56C	108018	15,9	90	115	7,6	351		
1750		SS56C	098069	12,2	180	230	3,8	351		
1750		S56C	108019	15,9	180	230	3,8	351		
0,75	1	2500	S56C	108020	15,4	90	115	10,0	351	
		2500	S56C	108021	15,4	180	230	5,0	351	
	1750	S56C	108022	18,1	90	115	10,0	389		
	1750	S56C	108023	18,1	180	230	5,0	376		
	1,1	1½	2500	S56C	108265	18,6	180	230	7,5	376
			1750	S56C	108092	23,1	180	230	7,6	427
1750			S56/145TC	108262n	23,1	180	230	7,6	441	
1750			145TC	128000	30,8	180	230	7,5	466	
1,5	2	2500	S56/145TC	108266n	23,1	180	230	8,6	427	
		1750	145TC	128010	35,4	180	230	9,5	512	
		1750	182/145TC	128001 ◀	35,4	180	230	9,5	512	
2,2	3	1750	182/145TC	108502 ◀	40,4	180	230	14,0	556	

For dimensions, see drawing **K** on page 34.

MODIFICATION KITS

DC motors in NEMA 56C frame may be converted to 42/48 C face using the following:

Frame	Catalog No.
SS56C	175182
S56C	175082 ◇

DC motors in NEMA S56 frame may be converted to 48 base using the following:

Frame	Catalog No.
S56C	175080 ◇



STOCK DC MOTORS EXPLOSION-PROOF AND WASHGUARD® • THYRISTOR RATED

NEMA FRAME • EXPLOSION-PROOF FOR HAZARDOUS LOCATIONS

General Specifications:

These explosion-proof motors are designed and approved for application in hazardous environments having certain explosive gases or materials present.

Features:

Rugged mechanical construction meeting all requirements for safety. UL and CSA listed. NEMA 56C face with removable 56 frame base. Leads exit through 3/4"-14NPT pipe-nipple in the top of the motor frame, opposite the shaft end. **No conduit box is provided.** See optional conduit box below. These motors have pilot-duty thermostats as standard that must be connected to the thyristor control. They are rated for continuous duty with full wave thyristor controls. Double-shielded, pre-lubricated ball bearings are standard. Easy brush access for field service. These motor are UL and CSA listed.

Application Notes:

These motors must be applied in accordance with the National Electrical Code, Article #500. For a listing of explosive agents, consult NFPA Publication 497M.



EXPLOSION-PROOF • CLASS I, GROUPS C & D – CLASS II, GROUPS F & G • THYRISTOR RATED 90 & 180V • C FACE WITH REMOVABLE BASE

kW	HP	Full Load RPM	NEMA Frame	Catalog Number	App. Wgt. (Kg.)	Arm. Volts DC	Control Volts AC Input	F.L. Amps DC	C Dim. (mm)
0,25	1/3	1750	S56C	118015	10,4	90	115	3,5	341
0,37	1/2	1750	S56C	118016	13,6	90	115	4,7	366
		1750	S56C	118017	13,6	180	230	2,5	366
0,55	3/4	1750	S56C	118018	16,3	90	115	7,1	417
		1750	S56C	118019	16,3	180	230	3,3	417

For dimensions, see drawing **K** on page 34.

EXPLOSION-PROOF CONDUIT BOX

UL and CSA listed for Class I, Group C & D, and Class II, Groups F & G locations. Has grounding screw and all hardware provided. Mounts to motor by 3/4"-14NPT opening at rear of box. For NEMA 56 frame motors only.



Catalog Number	App. Wgt. (Kg.)
175026	1,0

NEMA FRAME • WASHGUARD®^V

LEESON WASHGUARD® motors are designed for extended life in applications requiring regular washdown as in food processing, or otherwise wet, high humidity environments.

WASHGUARD® motors retard the entrance of water during cleaning operations and release any water that does enter the motor. Extra protection for the motor's interior prevents rust and corrosion build-up and drains release trapped moisture to insure a longer life than possible with a standard motor.



Mechanical Protection Features:

High quality, corrosion resistant 303 stainless steel shaft plus lubricated spring-loaded contact seals and patented, "V" ring Forsheda seal deflect water, protect bearings and the motor's interior. Double sealed, oversized bearings with high temperature moisture resistant lubricant are used.

Frame, base, endshields, armature and interior components protected by enamel and polyester compounds of outstanding adhesion and resistance to moisture, acids, alkalies and oil.

Cast conduit box with threaded entrance, drain holes and tough, high temperature Nitrile gaskets keep water out and resist deflection under high pressure washdowns. Conduit box cover and fan cover, when used, are type 304 stainless steel.

Four drains in each endshield at 3, 6, 9, and 12 o'clock purge water, and can be repositioned for maximum effectiveness regardless of the motor's mounting. Machined fits are sealed, and nylon gaskets are used to seal bolt heads. Stainless steel data plate.

Chemically inert static free fan is positively positioned on the shaft by opposing flats, shoulder and snap ring arrangement and protected by heavy gauge, stainless steel fan guards. Finished in USDA approved tough white epoxy for superior corrosion resistance and protection against harsh caustic cleaning solutions.

WASHGUARD® • NEMA C FACE • REMOVABLE BASE TENV • THYRISTOR RATED 90 & 180V

kW	HP	Full Load RPM	NEMA Frame	Catalog Number	App. Wgt. (Kg.)	Arm. Volts DC	Control Volts AC Input	F.L. Amps DC	C Dim. (mm)
0,18	1/4	1750	S56C	108423	10,4	90	115	2,7	272
0,25	1/3	1750	S56C	108424	11,8	90	115	3,5	297
		1750	S56C	108226	17,2	90	115	4,9	353
0,37	1/2	1750	S56C	108227	17,7	180	230	2,4	353
		1750	S56C	108228	22,7	90	115	7,0	403
0,55	3/4	1750	S56C	108229	22,7	180	230	3,5	403
		1750	S56C	108230**	19,1	90	115	10,0	402
0,75	1	1750	S56C	108231**	19,1	180	230	5,0	376
		1750	S56C	108232**	22,7	180	230	7,6	427

For dimensions, see drawing **K** on page 34.

** These motors are totally enclosed fan cooled.

✓ These motors meet IEEE 45 and military specification CCM-1807 including fungus proofing conforming to MIL-173. If base is removed, do not reinstall bolts without using washers to compensate for the thickness of base.

SUB-FHP MOTORS

General Specifications:

Precision subfractional horsepower DC permanent magnet motors designed for use with full wave non-filtered thyristor controls for adjustable speed applications requiring dynamic braking and constant torque throughout the speed range.

Mechanical Features:

Compact space saving designs. Ball bearings. Long-life brushes for demanding applications. Brushes easily replaced without disassembly of the motor. Standard mounted conduit box on 31 and 34 frame models simplifies connections.

Electrical Features:

Continuous duty with full wave un-filtered rectified thyristor controls. Linear speed torque characteristics throughout the speed range. High starting torques. Reversible rotation from a simple two lead connection. Class F insulated with high temperature welded commutators.



31/34 Frame



24 Frame

THYRISTOR RATED 90 & 180V • TENV SQUARE FLANGE OR C FACE

Watts	HP	Full Load RPM	Frame	Catalog Number	App. Wgt. (Kg.)	Arm. Volts DC	Control Volts AC Input	F.L. Amps DC
30	1/25	3500	24AS	M1110014 [ⓑ]	1,4	90	115	0,5
		1750	24CS	M1110003 [ⓑ]	1,8	90	115	0,5
		1750	31AS	M1120064	2,7	180	230	0,3
50	1/15	3500	24CS	M1110015 [ⓑ]	2,7	90	115	0,8
		1750	31BS	M1120013	3,2	90	115	0,8
		1750	31BS	M1120039	3,2	180	230	0,4
75	1/10	3500	31BS	M1120060	3,2	90	115	1,3
		1750	31CS	M1120014	3,6	90	115	1,1
		1750	31CS	M1120041	3,6	180	230	0,6
90	1/8	3500	31CS	M1120059	3,6	90	115	1,5
		1750	31ES	M1120027	4,1	90	115	1,5
		1750	31ES	M1120045	4,1	180	230	0,8
		1750	34D42CZ	M1130053	4,1	90	115	1,4
120	1/6	3500	31ES	M1120058	4,1	90	115	1,9
		1750	31GS	M1120042	5,0	90	115	1,7
		1750	31GS	M1120043	5,0	180	230	0,9
		1750	34E56C	M1130054	5,0	90	115	1,7
180	1/4	3500	31GS	M1120062	5,4	90	115	2,6
		1750	34G56C	M1130055**	5,9	90	115	2,7
		1750	34G56C	M1130120**	5,9	180	230	1,4
		1750	34G56C	M1130118	4,1	180	230	0,7

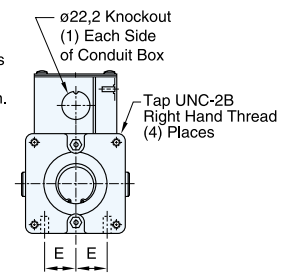
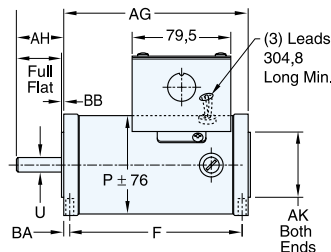
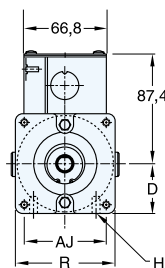
[ⓑ] 24 frame motors have provisions for an optional conduit box catalog number M1760000, see page 11.

** These motors are totally enclosed fan cooled.

24 & 31 FRAME SQUARE FLANGE MOUNT

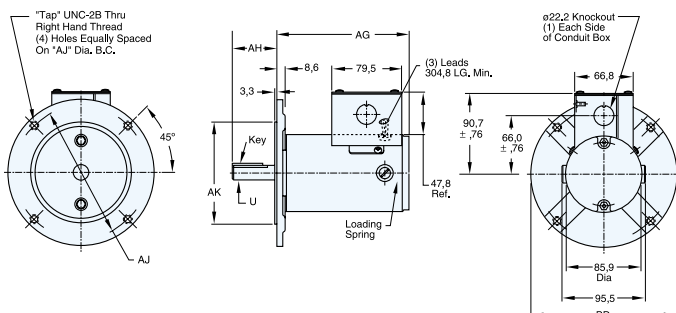
Note: Optional conduit box not included on 24 frame models.

Conduit box dimensions shown here are for 31 frame only.



Frame & Type	AG	P	BD	U	AH	N-W	AJ	TAP	R	AK	BB	D	BA	E	F	H	
24	AS	100	60	73	10	38	25	44	8-32	63	25	1	31	3	16	94	8-32
	CS	125	60	73	10	38	25	44	8-32	63	25	1	31	3	16	119	8-32
31	AS	124	79	89	13	38	25	67	1/4-20	80	51	2	40	6	25	112	1/4-20
	BS	137	79	89	13	38	25	67	1/4-20	80	51	2	40	6	25	124	1/4-20
	CS	149	79	89	13	38	25	67	1/4-20	80	51	2	40	6	25	137	1/4-20
	ES	175	79	89	13	38	25	67	1/4-20	80	51	2	40	6	25	163	1/4-20
GS	200	79	89	13	38	25	67	1/4-20	80	51	2	40	6	25	188	1/4-20	

34-FRAME, NEMA C FACE, LESS BASE



42C FACE MOUNT

Frame	AG	P	U	AH	N-W	KEY	AJ	TAP	AK	BD
34D42C	162	86	13	33	29	3 SQ.	95	1/4-20	76	108

56C FACE MOUNT

Frame	AG*	P*	U	AH	N-W	KEY	AJ	TAP	AK	BD
34E56C	176	86	16	52	48	5 SQ.	149	3/8-16	114	165
34G56C	201	86	16	52	48	5 SQ.	149	3/8-16	114	165

*For 180W 34 frame TEFC designs, add 17.8mm to AG dimension. Fan cover diameter is 85.7mm.