

PREMIUM STAINLESS STEEL DC MOTORS

IEEE 841 Severe-Duty Features Right Out of the Box

Designed specifically to meet the demanding sanitation requirements of the pharmaceutical, food processing, and beverage industries. These motors are also ideal in clean room and severe chemical-processing applications involving frequent washdown with nitric acid and caustic lye. In fact, WASHGUARD All-Stainless Motors include IEEE 841 severe-duty features right out of the box!

PREMIUM STAINLESS STEEL DUCK



Mechanical Protection Features

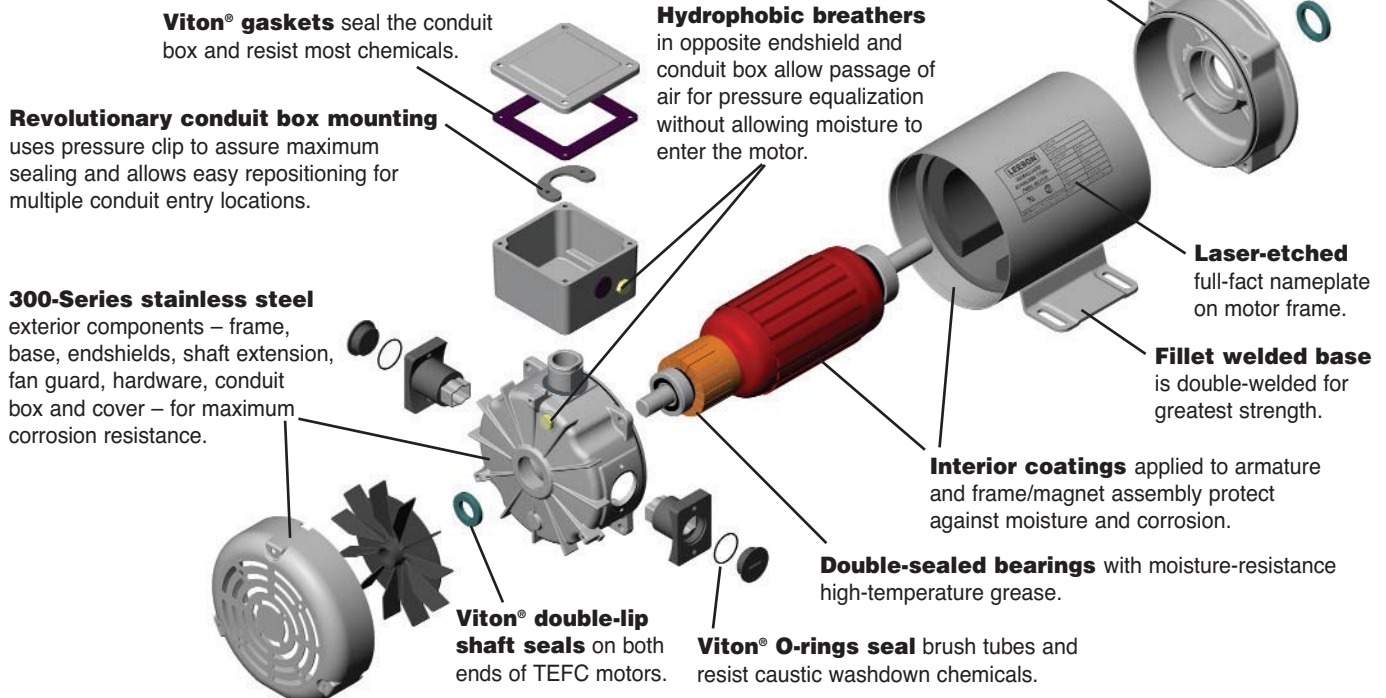
- All exterior components are 300-series stainless steel
- Nothing on the exterior of the motor is painted or coated in any way
- All sealing components are Viton® for superior chemical resistance.
- Full fact nameplate is laser etched on the motor frame – no separately attached nameplate to trap dirt or contaminants
- Endshields are O-ring sealed to the frame
- Double lip shaft seals on both ends of TEFC motors (shaft end only on TENV motors)
- Removable hydrophobic breathers in opposite shaft endbell and conduit box equalize pressure without allowing moisture to enter
- Exterior fastener use minimized reducing the number of entry points for moisture. There are no holes in the frame for attaching a nameplate. Bearing lock screws are located inside the motor and the conduit box mounted screws have been eliminated.
- Double-sealed bearings are pre-lubricated with moisture-resistant high-temperature grease for long life.
- Interior coatings applied to armature and frame/magnet assemble protect against corrosion
- Brush tubes are sealed with Viton® O-rings to keep moisture out
- New conduit box mounting system provides optimum sealing
- Easy to clean construction is BISSC Certified for bakery applications.

Electrical Performance and Protection Features

- Linear speed/torque characteristics over entire speed range.
- Armature windings are immersed and cured in a polyester insulating varnish for extra moisture-resistance
- High starting torque for hard to start loads.
- Use with LEESON SPEEDMASTER DC motor controllers for optimum performance.

Standards and Approvals

- DC motors are UL component recognized - file number E57948, guide number PRGY2
- Construction is CSA Certified for safety report number LR33543
- Listed under BISSC authorization number 769



PREMIUM STAINLESS STEEL DC MOTORS

PREMIUM
STAINLESS
STEEL DUCK



NEMA FRAME ALL-STAINLESS PMDC MOTORS

TEFC • SCR RATED 90 & 180V • NEMA
ALL-STAINLESS STEEL • C-FACE WITH BASE*

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Arm. Volts DC	Control Volts AC Input	F.L. Amps DC	"C" Dim. (Inches)
1/4	1750	S56C	109065●	A	38		115	3.1	11.81
1/3	1750	S56C	109066●	A	44	90	115	3.8	12.81
	1750	S56C	109067●	A	44	180	230	1.9	12.81
1/2	1750	S56C	109069	A	46	90	115	5.2	13.87
	1750	S56C	109070	A	46	180	230	2.7	13.87
3/4	1750	S56C	109072	A	47	90	115	7.5	15.37
	1750	S56C	109073	A	48	180	230	3.7	15.37
1	1750	S56C	109075	A	51	90	115	9.5	16.37
	1750	S56C	109076	A	50	180	230	5.0	16.37



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1/4	1750	S56C	109078●	A	38	90	115	3.1	11.81
1/3	1750	S56C	109079●	A	44	90	115	3.8	12.81
	1750	S56C	109080●	A	44	180	230	1.9	12.81
1/2	1750	S56C	109082	A	46	90	115	5.2	13.87
	1750	S56C	109083	A	46	180	230	2.7	13.87
3/4	1750	S56C	109085	A	47	90	115	7.5	15.37
	1750	S56C	109086	A	48	180	230	3.7	15.37
1	1750	S56C	109088	A	51	90	115	9.5	16.37
	1750	S56C	109089	A	50	180	230	5.0	16.37

● These motors are totally enclosed non-ventilated, others are TEFC.
* Base is welded to frame and not removable.

METRIC (IEC) FRAME PMDC MOTORS

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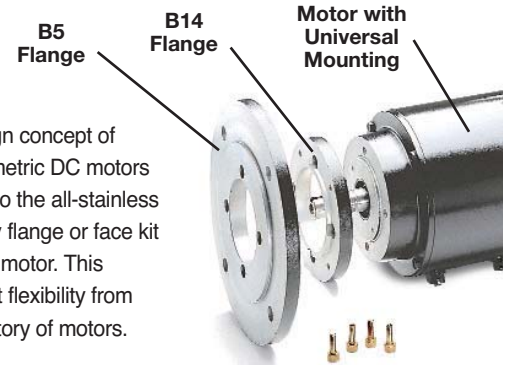
HP	Kw	RPM 60 Hz	IEC Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Arm. Volts DC	Control Volts AC Input	F.L. Amps DC	"C" Dim. (Inches)
1/3	0.25	1750	80D	109068●	A	44	180	230	1.9	12.81
1/2	0.37	1750	80D	109071	A	46	180	230	2.7	13.87
3/4	0.55	1750	80D	109074	A	48	180	230	3.7	15.37
1	0.75	1750	80D	109077	A	50	180	230	5.0	16.37

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HP	Kw	RPM 60 Hz	IEC Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Arm. Volts DC	Control Volts AC Input	F.L. Amps DC	"C" Dim. (Inches)
1/3	0.25	1750	80D	109081●	A	44	180	230	1.9	12.81
1/2	0.37	1750	80D	109084	A	46	180	230	2.7	13.87
3/4	0.55	1750	80D	109087	A	48	180	230	3.7	15.37
1	0.75	1750	80D	109090	A	50	180	230	5.0	16.37

STAINLESS STEEL FLANGE AND FACE KITS FOR DC METRIC (IEC) FRAME MOTORS

The modular design concept of LEESON's other metric DC motors has been applied to the all-stainless metric motors. Any flange or face kit can mount on any motor. This allows the greatest flexibility from the smallest inventory of motors.



B5 FLANGE KITS (For Stainless DC Metric Motors)

IEC Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	BD Flange Dia. (mm)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)
71	175593	A	2	160	110	9	130
80	175594	A	3	200	130	12	165
90S/90L	175594	A	3	200	130	12	165
100L/112M	175595	A	5	250	180	15	215

B14 FLANGE KITS (For Stainless DC Metric Motors)

IEC Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	BD Flange Dia. (mm)	AK Register (mm)	BF Tap (mm)	AJ Bolt Circle (mm)
71	175596	A	1	105	70	6	85
80	175597	A	1	120	80	6	100
90S/90L	175598	A	1	140	95	6	115
100L/112M	175599	A	2	160	110	6	130

