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FARM DUTY • GENERAL PURPOSE

Heavy duty single phase Hi-Torque Motors designed specifically for severe "farm duty" applications.

Mechanical Features:

Gasketed capacitor housing and conduit boxes provide protection in all environments. Double shielded ball bearings prelubricated with Exxon POLYREX® EM grease having operating temperature range of -20°F to +350°F and special formulation to provide extra bearing protection. Rubber boot over manual protector reset button provides weather protection.

Electrical Features:

Low temperature manual overload protector protects against extreme overload. Class "F" copper windings and varnish.

Capacitor start provides high starting torque with normal starting current.



HIGH TORQUE • RIGID BASE SINGLE PHASE • TEFC

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/3	1725	56	113256	20	115/208-230	Manual	3.2	10.81
1/2	1725	56	110086	22	115/208-230	Manual	4.4	10.81
3/4	1725	56	110087	26	115/208-230	Manual	5.4	11.31
1	1725	56	110088	30	115/208-230	Manual	7.0	11.81
11/2	1725	56H 56HZ/	110089☆□	41	115/208-230	Manual	8.6	12.61
	1725	145T	113938■	39	115/208-230	Manual	8.6	13.25
2	1725	56HZ/	110090☆■	43	230	Manual	9.2	13.75
	1740	145T 182T	131541†	50	115/208-230	Manual	12.4	14.46
3	1740	184T	131542†	83	230	Manual	19.0	16.46
5	1740	184T	131543†☆	96	230	Manual	23.0	17.46
71/2	1740	215T	140707†☆	144	230	Manual	33.6	20.21
10	1740	215T	140706†☆	152	230	Manual	40.0	20.71

WATTSAVER® PREMIUM EFFICIENCY **HIGH TORQUE • RIGID BASE** SINGLE PHASE • TEFC

WATTSAVER® Premium Efficiency Motors provide enhanced operating efficiencies, cooler operating temperatures, and reduced

running amperage. See page 15 for complete list of features.



HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/3	1725	56	113765☆	27	115/208-230	Manual	1.7	76.0	10.81
1/2	1725	56	113766☆	30	115/208-230	Manual	2.5	78.0	11.31
3/4	1725	56	113767☆	35	115/208-230	Manual	3.2	82.0	11.81
1	1725	56	113768☆	37	115/208-230	Manual	4.2	83.0	12.31
11/2	1725	56H	113769☆□	43	115/208-230	Manual	6.5	84.0	13.31
2	2 1725 56HZ 113770☆■		49	230	230 Manual		85.0	14.25	

FOR ADDITIONAL WATTSAVER® MOTORS, SEE PAGES 15-18.

HIGH TORQUE C FACE LESS BASE SINGLE PHASE • TEFC

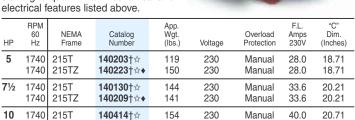
NEMA C Face Motor designed with overspeed protection on mechanical centrifugal starting switch.

	0	0						
HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/3	1725	56C	113290	28	115/208-230	Manual	3.2	10.81
1/2	1725	56C	110492	22	115/208-230	Manual	4.4	10.81
3/4	1725	56C	110493	29	115/208-230	Manual	5.4	11.31
1	1725	56C	110494	33	115/208-230	Manual	7.0	11.81
11/2	1725	56C	110495☆	43	115/208-230	Manual	8.6	12.31
2	1725	145TC	120855†☆	45	230	Manual	9.2	13.75
3	1740	184TC	131603†	104	230	Manual	19.0	16.47
5	1740	184TC	131602†☆	104	230	Manual	23.0	17.47

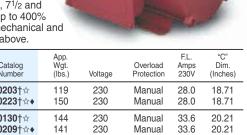
1.15 Service Factor, 1 HP and smaller.

EXTRA HI-TORQUE **RIGID BASE SINGLE PHASE • TEFC**

Extra Hi-Torque rated 5, 71/2 and 10 HP Motors produce up to 400% starting torque with all mechanical and electrical features listed above.



- Combination 56 HZ base has mounting holes for NEMA 56 and 143-5T
- and a standard NEMA 145T frame shaft of 7/8" diameter. Combination 56H base has mounting holes for NEMA 56 and 143-5T and
- a standard NEMA 56 frame shaft.
 Capacitor start/capacitor run design for reduced amperage, others are
- capacitor start/induction run. Class F insulated. These motors have a NEMA 215T base mounting pattern and shaft height of 5.25", with usable length of 33/8" and diameter of 11/8" with standard key.



AGRICULTURAL MOTORS

FAN DUTY • SINGLE AND THREE PHASE



TWO-WINDING VARIABLE TORQUE **PSC TYPE FOR SHAFT MOUNTED FAN APPLICATIONS**

These fan and blower dutv motors are designed for dependable, energy saving performance in applications where the fan is mounted on the shaft of the motor. The permanent split capacitor design does not require a centrifugal switch, resulting in higher reliability than on other types of single phase motors. This design is also more energy efficient and less expensive to operate.

These motors may be operated at listed speed or two speed operation may be achieved by using the proper auxiliary switch. They are suitable for variable speed by adjusting the voltage to the motor using a variable voltage control, except as noted by \boxtimes .

Overload protected with an automatic reset protector. Grounding provisions. Totally enclosed, dust tight design, with resilient mounting for quiet operation. Lubricated with quiet running high temperature lubricant. Corrosion resistant finish for tough applications. Because of the inherently low starting torques of this design, these motors are not suitable for belt driven fan applications. They must be mounted within the air stream of the driven fan.



- The useable shaft of this motor is 3/4" longer than NEMA standard to accommodate fan on shaft mountings. 48Z is 1/2" diameter by 21/4". 56Z is 5/8" diameter, 25/8" long. All have 1" extended through bolts. Except Catalog Numbers 100805 and 100806 which are extended
- Suitable for single speed operation only.
- Combination 56H base motors have mounting holes for NEMA 56 and
- NEMA 143-5T and a standard NEMA 56 shaft. In addition to a rigid base, this motor has provisions for belly band and
- pedestal fan mount.
 In addition to resilient base, this motor has provisions for belly band and pedestal fan mount.
- This split phase start, capacitor run motor is suitable for belt drive within the airflow of the fan. Shaft is 3/4" by 2"
- ** Shaft is 5/8" by 2 5/8"

VENTILATION FAN MOTOR SHAFT-MOUNTED • DUST-

Totally enclosed, high efficiency, permanent split capacitor motor for direct drive exhaust ventilation fans in poultry and livestock houses. Fully gasketed, dusttight construction with sealed bearings and shaft slinger. Automatic thermal overload protector. Extended through-bolts for mounting, no base. Built-in terminal panel for quick, easy connection. Grounding provision.

Because of the inherently low starting torque of this design, this motor is not suitable for belt-driven fan applications. It must be mounted in the air stream of the fan for cooling.

SINGLE PHASE • PSC • TEAO • RESILIENT BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)	
1/4	1625	48Z*	100803	19	115/230	Auto	1.6	11.13	_
	1075 1075	48Z* S56Z*	100824 100805	20 22	115/230 115/230	Auto Auto	1.5 1.5	11.13 11.56	
1/3	1625 1625 1625	48Z* S56H 56HY	100804 100767 1113482	21 22 24	115/230 115/230 115/230	Auto Auto Auto	1.9 1.9 1.7	11.13 11.31 13.44	
	1075 1075	48Z* S56HZ*	100825 100806	25 27	115/230 115/230	Auto Auto	1.8 1.8	11.13 12.56	
1/2	1625 1625	56HZ* S56H	111323 100768	30 36	115/230 115/230	Auto Auto	2.6 2.5	12.56 11.81	
	1075 1075	48Z 56HZ*	101645 111321□	33 37	115/230 115/230	Auto Auto	3.2 3.0	11.13 13.56	
	850 825	48YZ* 56HZ*	M099836⊠ © 111919□⊠	24 40	115/230 115/230	Auto Auto	3.0 3.2	11.55 13.56	
3/4	1625 1625	56HZ* 56H	111324 111266	34 36	115/230 115/230	Auto Auto	3.5 3.5	13.06 12.31	
	1075	56HZ*	111322□⊠	44	115/230	Auto	4.0	13.56	
1	1625	56HZ	111267	39	115/230	Auto	4.4	12.81	

These motors have a 1.0 Service Factor

SINGLE PHASE • PSC TYPE • RIGID BASE TOTALLY ENCLOSED AIR OVER (TEAO)

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/4	1750	48Y	101252⊠	19	115/208-230	Auto	1.6	10.06
	1625 1625	48Y 48Y	100699A M099799	19 19	115/230 115/230	Auto Auto	1.6 1.5	11.06 11.06
	1075	48Y	M099260	21	115/230	Auto	1.2	11.55
1/3	1725 1750	48Y 48Y	M090253⊠ 101253⊠	22 22	115/230 115/208-230	Auto Auto	1.8 2.2	11.55 10.06
	1625 1625 1625	48Y 56Y 48Y	100700 111202® M099800	22 24 22	115/230 115/230 115/230	Auto Auto Auto	1.9 1.7 1.8	11.56 12.00 11.55
	1075 1140	48Y S56Y	M099261 100604	21 23	115/230 115/230	Auto Auto	1.5 1.8	12.55 12.56
1/2	1750	S56Y	101176√⊠	26	115/230	Auto	3.2	11.06
	1625 1625	48Y 48Y	100701 M099801	29 29	115/230 115/230	Auto Auto	2.5 2.5	12.06 12.55
	1060	48Y	M099946	26	115/230	Auto	2.5	13.55
3/4	1060	48Y	M099847	36	115/230	Auto	3.6	13.56

SINGLE PHASE • TEAO • THRU BOLT MOUNT

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/3	1635	48Y	M090085	20	115/230	Auto	1.8	11.55
1/2	1635	48Y	M090086	22	115/230	Auto	2.5	12.55
	825 850	56Z 48Y	114620⊠ M099250***⊠	35 24	115/230 115/230	Auto Auto	3.2 3.0	12.63 11.55

SINGLE & THREE PHASE • TEAO • C FACE LESS BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	Phase	F.L. Amps 230V	"C" Dim. (Inches)
1/2	850	56C	M099251⊠	24	115/230	Auto	1	3.0	11.55
1	850	56C	M009644⊠	45	230	Auto	1	4.6	12.81
1/2	850	56C	116201	35	208-230/460		3	3.0	10.31
1	850	56C	116202	45	208-230/460		3	5.2	12.90

AG FAN MOTORS BELT-DRIVEN • DUST-TIGHT

Totally enclosed air over motors, dust-tight, suitable for shaftmounted fans or belt driven fans. Capacitor start designs. Designed to be used within the airflow of the driven fan, these motors offer protection from the environment and are finished in epoxy enamel to resist corrosion in tough



atmospheres. Lubricated with high temperature Exxon POLYREX® EM lubricant. Grounding provisions. Fully gasketed. Single phase motors have built-in terminal panel for quick, easy connections.

SINGLE PHASE • CAPACITOR START • TEAO • RIGID BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
3/4	3450	56	111332√	27	115/230	None	5.0	10.88
1	3450	56	111333.⁄	29	115/230	None	6.0	10.88
1½	3450 3450	56 143TZ	111949√ 120374®	32 31	115/230 115/230	None None	8.5 8.5	11.38 11.88
2	3450	145TZ	120375®	41	230	None	10.0	13.38
3	3450	145T	120376☆	45	230	None	13.6	13.88

THREE PHASE • TEAO • RIGID BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
3/4	3450	56Z	111334√	21	208-230/460	2.4	72.0	9.88
1	3450	56Z	111335√	22	208-230/460	3.2	77.1	9.88
11/2	3450	143TZ	120377®	31	208-230/460	4.2	80.3	10.88
2	3450	145TZ	120378®	34	208-230/460	5.6	78.8	11.88
3	3450	145T	120379®	38	230/460	8.0	80.0	12.34

CROP DRYER MOTORS

Open air over, fan-on-shaft design motors for crop drying applications. Designed for continuous duty operation. Class F insulation system. Thermostats provide thermal overload protection on all units. Extra nameplate included for remote mounting. Keyed shaft with 1/4-20 UNC tapped hole in end.



Capacitors supplied on single phase models. All models include sealed bearings, rodent screens, gray epoxy paint and 34" leads exiting the motor at 12 o'clock.

SINGLE PHASE

Н	P	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
5-	7	3450	182TZ	131847	91	230	T-Stat	27.2-35.0	16.44
7.5	-10	3450	182TZ	131848	95	230	T-Stat	31.0-42.0	16.44
10-	-15	3450	215TZ	140640	159	230	T-Stat	39.5-61.5	20.42

THREE PHASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)	
5-7.5	3450	184TZ	131849	70	208-230/460	T-Stat	19.0	13.94	
7.5-10	3450	184TZ	131850	85	208-230/460	T-Stat	24.2	15.44	
10-15	3450	215TZ	140641	95	208-220/440	T-Stat	40.0	17.41	_

GRAIN STIRRING MOTORS DUST-TIGHT

Dust-Tight Motors designed to operate inside agricultural storage bins for stirring grain, corn and other agricultural products.

Mechanical Features:

External cast aluminum cooling fan at shaft end keeps grain from obstructing fan operation. Prelubricated double shielded ball bearings packed with Exxon POLYREX® EM grease (temperature range -20°F to +350°F). Totally enclosed construction with gasketed conduit box and capacitor cases. Moisture drain hole in endshield opposite shaft for vertical shaft up mounting. Rugged 205 bearing shaft-end. Shaft is 7/8" diameter, useable length of 15/16". "BA" dimension is 35/8".

Electrical Features:

Energy-saving, extra high torque designs.

SINGLE PHASE • RIGID BASE • TEFC

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
11/2	1725	56HZ	111330☆	42	115/208-230	Man.	8.6	12.31

THREE PHASE • RIGID BASE • TEFC

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
11/2	1725	56HZ	111329	38	208-230/460	5.4	80.0	11.81

These Grain Stirring motors have NEMA Service Factor of 1.0

- Standard 5/8" diameter shaft with keyway plus 3/4" deep hole drilled and tapped to 1/4-20 UNC in end of shaft to facilitate mounting of some fan blades. Standard 7/8" diameter shaft with keyway plus 3/4" deep hole drilled and tapped to 1/4-20 UNC in end of shaft to facilitate mounting of some fan blades.
- Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.

FAN & BLOWER MOTORS

SINGLE PHASE • COMMERCIAL DUTY



INDUSTRIAL SPLIT PHASE MOTORS

LEESON FHP Commercial Duty, split phase motors with moderate starting torque, designed for continuous duty on ventilation fans, blowers and other belt driven or fan on shaft applications.

Resilient base for quiet operation.
Prelubricated ball bearings for long
life in commercial and industrial environments.
Has automatic thermal overload and built-in
terminal panel style connection provisions.

DRIP-PROOF • RESILIENT BASE • AUTOMATIC OVERLOAD

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 115V	Service Factor	"L" Dim. (Inches)	"C" Dim. (Inches)
1/4	1725	48	191868	15	115/230	Auto	4.6	1.35	2.61	9.37
1/3	1725	48	191869	17	115/230	Auto	5.8	1.35	3.12	9.88
1/2	1725	48	191870	19	115/230	Auto	8.4	1.25	3.63	10.39

RESIDENTIAL/INDUSTRIAL BELTED FAN MOTORS SPLIT PHASE

Designed for use in residential and commercial fans and blowers where low starting torque is required. (Air conditioners, roof ventilators and exhaust fans.)

Sleeve or ball bearings. NEMA Service factors. Resilient "cradle" style base. 48Y frame has both 48 and 56 frame mounting holes.

OPEN DRIP-PROOF • RESILIENT BASE • AUTOMATIC OVERLOAD

	HP	RPM 60 Hz	NEMA Frame	Bearing Type	Catalog Number	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 115V	"C" Dim. (Inches)
	1/4	1725	48YZ	Sleeve	M900195	13	115	Auto	5.0	9.72
e	1/3	1725/1140 1725	56 48YZ	Ball Sleeve	M900277 M900196	20 15	115 115	Auto Auto	5.3/2.9 6.1	10.72 9.72
	1/2	1725/1140 1725	56 48YZ	Ball Sleeve	M900599 M900197	30 20	115 115	Auto Auto	8.1/4.5 7.2	11.85 10.72

PREMIUM EFFICIENCY INDUSTRIAL/RESIDENTIAL BELTED FAN MOTORS

High-efficiency motors for residential or industrial belted fan application.

Features include quiet bearings, resilient cradle base and "Super-Hush" flow-through ventilation.

Rotors are specially balanced for smooth and quiet operation.

Spade connectors on terminal board in standard wiring format along with industry standard mounting allow for quick and easy interchange with other makes.

OPEN DRIP-PROOF • 115V • SINGLE PHASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 115V	% F.L. Eff.	"C" Dim. (Inches)	
1/4	1725	48	M090602	15	115	Auto	2.5	71.0	9.88	
1/3	1725	48	M090405	19	115	Auto	3.2	75.0	9.88	
1/2	1725	48	M090585	22	115	Auto	4.6	76.0	10.50	

Premium efficiency FHP® brand motors.



Features:

- Drop-in replacement for most standard belted-fan motors
- Extremely quiet running compared to standard fan motors
- Consumes approximately half of the power of a standard fan motor

PEDESTAL FAN MOTORS

LEESON FHP Commercial Duty totally enclosed, air over fan motors for air circulators where motor is mounted directly to fan column.

Energy efficient, permanent split capacitor type design eliminates the centrifugal switch for "three phase" reliability. Totally enclosed ball bearing design for commercial and industrial environments. Automatic thermal overload protection, reversible.

overload protection, reversible.

Heavy-gauge steel yoke is welded to the motor frame. Four mounting studs are extended 1/2" on 5.14" bolt circle for mounting of fan shroud.

Motors are CSA/NRTL/C. Recognized for both the U.S. and Canadian markets.

SINGLE PHASE • PSC TYPE • TEAO • YOKE MOUNTED AUTOMATIC OVERLOAD • 1.0 S.F.

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 115V	"U" Dim.	"C" Dim. (Inches)
1/4	1650	48Y	191872	14	115/230	Auto	2.6	0.500	10.95
	1650	48Y	191908	14	115/230	Auto	2.6	0.625	10.95
	*1140	48Y	191891	22	115/230	Auto	2.4	0.500	10.95
	*1140	48Y	191909	25	115/230	Auto	2.4	0.625	10.95
1/3	1650	48Y	191871	15	115/230	Auto	3.4	0.500	10.95
	1650	48Y	191910	15	115/230	Auto	3.4	0.625	10.95
	*1140	48Y	191892	23	115/230	Auto	3.0	0.500	11.46
	*1140	48Y	191911	26	115/230	Auto	3.0	0.625	11.46
1/2	1650	48Y	191873	24	115/230	Auto	4.6	0.500	10.95
	1650	48Y	191875	24	115/230	Auto	4.6	0.625	10.95
	*1140	48Y	191893	26	115/230	Auto	5.0	0.500	11.93
	*1140	48Y	191912	29	115/230	Auto	5.0	0.625	11.93

^{*}Two speed achievable by reconnecting 115V power to 230V connection (67% of rated speed). Actual speed dependent upon fan design.



AGRICULTURAL MOTORS

SINGLE AND THREE PHASE

CATFISH POND MOTORS

Specially designed for aeration systems used on aquaculture ponds, these motors are designed for dependable outdoor applications. Typically C-face connected to a right-angle gearbox and installed on a floating aeration platform.

Hi-torque motors are epoxy-painted with a corrosion-resistant interior coating. Stainless hardware, fan guard, lifting lug, and conduit box cover for maximum protection against corrosion. Drain holes in the conduit box and in four positions on each end of the frame to purge condensate and moisture that may enter the motor. Ball bearings are double-sealed and lubricated with Exxon POLYREX EM high temperature, moisture resistant lubricant.

SINGLE AND THREE PHASE • C FACE WITH BASE

• TEFC

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Phase	F.L. Amps 460V	"C" Dim. (Inches)
10	1740	215TC	140705*	204	230	1	40.0	20.71
	1740	215TC	G140709	169	208-230/460	3	26.0	18.71

^{*}Single phase motor has manual reset overload protector.

IRRIGATION BOOSTER PUMP MOTOR

Threaded-shaft jet pump motor for shaft-down mounting. TEFC with rain canopy. Locked bearing on shaft end, for longer motor life. Neoprene shaft flinger repels moisture. Drain holes in C face and conduit box. Epoxy paint and fully gasketed. Stator impregnated with extra-heavy varnish system.



THREE PHASE • IRRIGATION BOOSTER • TEFC

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 460V	% F.L. Eff.	"C" Dim. (Inches)
2	3450	56J	112991	33	460	3.0	78.0	14.35

IRRIGATION DRIVE MOTORS

Specially designed for pivoting irrigation systems exposed to severe weather environments and operating conditions.

Mechanical Features:

Double sealed ball bearings prelubricated with Exxon POLYREX® EM grease having an operating temperature range of –20°F to +350°F and special formulation to provide extra long life and moisture resistance. Moisture drain holes at shaft-end of motor. Die cast aluminum conduit box fully gasketed. Epoxy paint for corrosion resistance. Externally fan cooled with rain canopy over cooling fan, for shaft down mounting.



C FACE LESS BASE • THREE PHASE • TEFC

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1	1725	56C	111304	30	460	2.4	75.0	12.34

These Irrigation Drive motors have a 1.25 Service Factor.

Electrical Features:

"Extra high" starting torque, Class "F" copper windings. Specially treated windings for excessive moisture conditions. Capable of multiple starts and stops. Automatic protector for overload and low voltage protection.

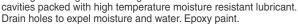
MILK TRANSFER PUMP MOTOR

General Specifications:

Totally enclosed non-ventilated motor. Direct replacement for Surge milk pumps, Babson motor #27732.

Mechanical Features:

Special moisture resistant design with double sealed ball bearings. Bearings and bearing



Electrical Features:

Permanent split capacitor design for reliability and improved efficiency. High temperature insulation. Class B insulation system. Requires 30 MFD, 370 VAC capacitor, separately mounted—not supplied.

SINGLE PHASE • RIGID BASE • TENV

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56CZ	113939	42	230	None	4.5	13.11

AGRICULTURAL MOTORS

GENERAL PURPOSE, FAN AND BLOWER - SINGLE PHASE



INDUSTRY-AG • 115-208/230V • TEFC 1725 RPM • HIGH TORQUE RIGID BASE

Industry-Ag is a new line of heavy duty single phase hi-torque motors built to withstand the tough applications in industry and agriculture.

Mechanical Features:

Gasketed capacitor housing and conduit boxes provide protection in all environments. Double sealed ball bearings provide extra bearing protection.



Rubber boot over manual protector reset button provides weather protection.

Electrical Features: Manual thermal protector protects against overload. Capacitor start provides high starting torque with normal starting current.

RIGID BASE • 115-208/230V • TEFC

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (in.)
1/3	1725	56	M002256	25	115-208/230	Manual	3.2	10.81
1/2	1725	56	M009086	26	115-208/230	Manual	4.4	10.81
3/4	1725	56	M009087	29	115-208/230	Manual	5.4	11.31
1	1725	56	M009088	32	115-208/230	Manual	7.0	11.81
C Fla	ange	56	M064076		_	_	_	

C FACE LESS BASE • 115-208/230 • TEFC

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (in.)
1/3	1725	56C	M002290	25	115-208/230	Manual	3.2	10.81
1/2	1725	56C	M009492	26	115-208/230	Manual	4.4	10.81
3/4	1725	56	M009493	29	115-208/230	Manual	5.4	11.31
1	1725	56	M009494	32	115-208/230	Manual	7.0	11.81

VARIABLE SPEED HIGH-PERFORMANCE AG FAN MOTORS

The all new PERFORMA+ brings fan motor performance to a new level. These highefficiency motors feature exceptional variable speed performance.



Features:

Water-tight connection end compartment with removable cover, houses the capacitor, thermal

protector and wiring—allowing unimpeded airflow over the motor frame.

Locked, double-sealed bearings for all angle mounting, including vertical shaft up.

Oil seal in drive end repels moisture and contaminants.

Class F insulation with Class B rise.

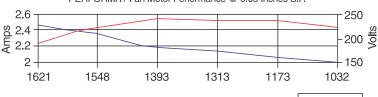
Permanent split capacitor type design eliminates the centrifugal switch for "three phase" type reliability.

Automatic thermal overload protection.

TEAO • RIGID BASE • EXTENDED THRU-BOLTS

_										
	HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	Shaft Length (in.)	
1	1/4	1625	48Y	M099899	18	115-208/230	Auto	1.3	2	
		1060	48Y	M099460	21	115/208-230	Auto	1.3	2	
-	1/3	1625	48Y	M099900	19	115-208/230	Auto	1.8	2	
		1060	48Y	M099461	22	115/208-230	Auto	1.9	2	
1	1/2	1650	48Y	M099901	22	115-208/230	Auto	2.6	2	
		1060	48Y	M099462	25	115/208-230	Auto	2.8	2	

PERFORMA+ Fan Motor Performance @ 0.05 Inches S.P.



Variable speed graph for catalog M099901 using a Norsol Vari-Vent control.

— AMPS — VOLTS

AGRICULTURAL FAN MOTORS BELT DRIVE • TEAO

FHP motors designed for use in agricultural belted fan applications. These motors feature capacitor start/capacitor run configuration for hi-efficiency. They should be mounted in the airstream for proper cooling. They also feature a heavy gauge steel frame with rigid 56/140 combination base.



HIGH-EFFICIENCY • SINGLE PHASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Eff.	Overload Protection	F.L. Amps 230V
3/4	1725	56H	M009581	30	115/208-230	82	Auto	3.4
1	1725	56H	M009782	37	115/208-230	85	Auto	4.3
11/2	1725	56H	M009594	39	115/208-230	78	Auto	6.8

FEED-AUGER DRIVE MOTORS **DUST-TIGHT**

Dust-tight, capacitor start motor with your choice of field proven electronic or protected mechanical starting switch—both eliminate damage caused when motor is over-speeded by obstructed auger.

Ball bearing, heavy duty industrial quality designs for high overload capacity. Side mounted conduit box. Flange mounts directly to drive assembly. Fully gasketed to keep out feed dust. Has screw driver slot in rear shaft. Continuous duty, with manual thermal overload protection. Motors of 3/4 HP and less in the two adjacent charts have shaft of 1/2" diameter x 11/2" length, with flat; motors 1 HP and larger have 5/8" diameter x 1.97" length, with key.

SINGLE PHASE • TEFC • 60 HERTZ

HF	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/3	3 1725	48YZ	101159	21	115/230	Manual	3.5	11.28
	1725	48Y	101435®	21	115/230	Manual	3.5	11.28
1/:	2 1725	48YZ	101120	22	115/208-230	Manual	4.0	10.72
	1725	48Y	1014369	22	115/208-230	Manual	4.0	10.72
3/4	4 1725	48YZ	101119	24	115/208-230	Manual	5.4	11.28
	1725	48YZ	101437 [®]	28	115/230	Manual	5.4	11.78
1	1725	56Y	112615	35	115/230	Manual	7.0	12.11
	1725	56NY	113302 [®]	35	115/208-230	Manual	7.0	12.61
11/	2 1725	56NY	113280☆	47	115/208-230	Manual	6.5	13.62
	1725	56NY	113301☆⑨	44	115/230	Manual	6.5	13.62

SINGLE PHASE • TEFC • 50 HERTZ

HP	RPM 50 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 220V	"C" Dim. (Inches)
1/2	1425	48Y	1016439	26	110/220	Manual	4.2	11.78
3/4	1425	48Y	1016449	30	110/220	Manual	5.8	12.78
1	1425	56Y	1139069	39	110/220	Manual	6.4	12.61
11/2	1425	56Y	1139079	48	110/220	Manual	8.6	13.61

HATCHERY AND INCUBATOR FAN MOTORS





SINGLE PHASE • TEAO

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/4	1625	48Y	101341	17	115/230	Auto	1.6	10.31
1/2- 0.22	1725/ 1140	56H	114102	33	115	Auto	** 9.3-5.6	11.81

General Specifications:

Capacitor-type replacement motors for hatchery and incubator fan motors. Catalog number 101341 is a permanent split capacitor motor for fan on shaft incubator fans. Band mounted, with 1" long extended through bolts for fan shroud. Shaft diameter 1/2" by 21/4", with full length flat. Connections in end of motor through ½"-14 NPT tap. UL Listed thermal overload.

NOTE: Cat.#101341 requires separately mounted 7.5 MFD, 370 VACnot supplied unless requested. Capacitor Part number 003014.09

Catalog number 114102 is a two-speed motor, dust-tight and totally enclosed for belt driven hatchery cooling fans. Resilient base. With UL Listed automatic thermal overload.

Mechanical Features:

Double shielded ball bearings permanently lubricated with Exxon POLYREX® EM lubricant having a temperature range of -40°F to +320°F and special formulation for extra long life and moisture resistance.

FEATHER PICKER MOTORS

Motors with the dimensions to replace the MEYN drive motor. Phosphatized or stainless, drilled and tapped metric shaft for easy mounting. Special duty rating with extra high breakdown torques for superior performance on this demanding application. See 1050 Catalog for complete listing of



Totally enclosed fan cooled construction, sealed bearings, condensate drains, USDA approved food-safe tough white epoxy finish.

THREE PHASE • TEFC

HP/KW	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
2	1740	145T	G121191	46	208-230/460	6.0	84.0	14.25
2*	1140	184TZ	G131575	84	230/460	7.2	86.5	15.96
2/1.5*	1140	112M▶	G131635	84	230/460	7.2	86.5	15.96
3	1740	56HZ	115751■	45	208-230/460	8.6	82.5	14.25

Note: Catalog Number 115751 has a 303 stainless steel shaft.

- Combination 56HZ base has mounting holes for NEMA 56 and 143-5T and a standard NEMA 145T frame shaft of 7/8" diameter.
- These motors have a 1.5 continuous duty service factor, 3 HP continuous. IEC frame. See 1050 catalog for dimensions.
- Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run. Mechanical centrifugal starting switch with overspeed protection, others have electronic switch.
- ** F.L. Amps listed are for high speed and low speeds, respectively, at 115 volts.

PRESSURE WASHER MOTORS



PRESSURE WASHER PUMP MOTORS **LOW AMPERAGE DESIGN**

Motors specially suited for hot or cold pressure washer applications and other single phase installations requiring minimum starting and running amperages. Capacitor start, capacitor run construction for reduced amperage.

Mechanical Features:

Double shield ball bearings prelubricated with Exxon POLYREX® EM lubricant, having operating temperature range of -20°F to +350°F and special formulation to provide extra long life and moisture resistance. Dynamically balanced rotor and shaft assembly.

Electrical Features:

High efficiency reduced amperage energy saving designs. Stator impregnated with extra heavy varnish system. High temperature copper magnet wire for high overload capacity. Capacitor start/ capacitor run

design for reduced amperage. Grounding provision in conduit box. Manual reset overload protector protects against automatic resets. High overload capacities provided by service factor.

RIGID BASE • SINGLE PHASE • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
3/4	1725	S56	101544☆	28	115/208-230	Manual	3.8	10.94
1	1725	56	113630☆	31	115/208-230	Manual	5.3	10.84
11/2	3450	56	113631☆	36	115/208-230	Manual	6.7	10.84
	1725	56H	113266☆□	42	115/208-230	Manual	6.7	12.38
2	3450	56	113632☆	36	115/208-230	Manual	8.6	11.34
3	1740	184T	131851	72	208-230	Manual	13.7	15.22
5	1740	184T	131852	83	208-230	Manual	24.1	16.22

RIGID BASE • SINGLE PHASE • TEFC

Н	RPM 60 P Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
3	3 1740	184T	131855	88	230	Manual	13.7	16.86
Ę	1740	184T	131856	95	230	Manual	21.0	17.86

C FACE WITH BASE • SINGLE PHASE • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
11/2	1725	56HC	113700☆□	38	115/208-230	Manual	7.2	11.84
2	1725	56HC	113281☆□	45	115/208-230	Manual	8.6	12.88
3	1740	184TC	131853	87	208-230	Manual	15.4	15.96
5	1740	184TC	131854	97	208-230	Manual	24.1	16.96

C FACE WITH BASE • SINGLE PHASE • TEFC

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
11/2	3450	56C	115024☆	35	115/208-230	Manual	6.7	12.31
2	3450	56HC	114995☆	42	115/208-230	Manual	9.2	13.31
3	3450	56HC	115048☆	53	208-230	Manual	14.0	13.81
	1740	184TC	131857	104	230	Manual	13.7	17.61
5	1740	184TC	131858	102	230	Manual	21.0	18.72

Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run. Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.

INSTANT REVERSING MOTORS

PARKING GATES, DOOR **OPERATORS & SLIDE GATES**

General Specifications:

Specially designed motors for use on "instant-reversing" parking gates, doors, slide gates, or other moderate starting torque instant reversing applications. Capable of frequent reversing service.



Features (Resilient Base and C Face):

Instant "plug-reversing" with simple three-wire connection. Permanent split capacitor design offering low inrush and full load amps. Manual reset overload protector. Starting torque approximately 150% of full load, not suitable for hard to start loads.



Features (Rigid Base):

Capacitor start, induction run motors with solid state, instant reversing switch. Manual reset overload protector.





RESILIENT BASE • SINGLE PHASE • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 115V	"C" Dim. (Inches)
1/3	1625	S56	191742	18	115	Manual	4.0	10.31
1/2	1625	S56H	100802	24	115	Manual	6.0	11.31
3/4	1625	56H	113642	33	115	Manual	8.2	11.31

C FACE LESS BASE • SINGLE PHASE • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 115V	"C" Dim. (Inches)
1/3	1625	S56C	102017	18	115	Manual	4.4	9.34
1/2	1625	S56C	102021	22	115	Manual	6.0	10.38

RIGID BASE • SINGLE PHASE • TEFC

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
3/4	1725	56	114932	30	115/208-230	Manual	5.4	11.31
1	1725	56	114933	30	115/208-230	Manual	6.4	11.81



SINGLE PHASE MOTORS

RIGID BASE • CAPACITOR START • GENERAL PURPOSE









DRIP-PROOF

TOTALLY ENCLOSED FAN COOLED (TEFC)

															-
HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
	1725			. ,				<u> </u>	42	092111	14	115/208-230	None	1.1	8.94
1/8	1725			•••	•••		•••		42	092114	16	115/208-230	None	1.6	9.94
	1725				•••				42	092116	17	115/208-230	None	2.1	9.44
1/0	1725			•••	•••				48	102012	18	115/208-230	None	1.7	9.44
-	1140			•••	•••	•••	•••		48	102012	23	115/208-230	None	1.2	10.44
1/4	3450			•••			•••		42	092112	18	115/208-230	None	2.1	9.94
1/4	1725			•••	•••		•••		48	102014	20	115/208-230	None	2.7	9.44
	1725	 48	101423	 15	115/208-230	 Manual	2.7	8.50	48	101446÷	18	115/208-230	Manual	2.7	9.44
	1725	48	100115	16	115/208-230	Auto	2.7	8.50							
	1725	S56	100000	17	115/208-230	Auto	2.7	9.38	•••	•••	•••		•••		
-	1140								48	102015	26	115/208-230	None	3.2	11.44
	1140						•••		56	114617	30	115/208-230	None	2.8	11.81
1/3	3450			•••			•••		48	102016	21	115/208-230	None	2.5	9.44
1/3	3450	 S56	100336	26	115/208-230	None	2.5	9.38		102010					
-	1725								48	100955	19	115/208-230	None	3.1	9.94
	1725				•••		•••		48	100933	20	115/208-230	Manual	3.1	9.94
	1725	48	100116	 18	115/208-230	Auto	3.1	9.00							
	1725	S56	100016	17	115/208-230	None	3.1	9.38	 56	113635+	26	115/208-230	None	3.2	10.81
	1725	S56	100588	17	115/208-230	Manual	3.1	9.38	56	114619	29	115/208-230	Manual	3.2	10.81
	1725	S56	100001	18	115/208-230	Auto	3.1	9.38	56	114613	29	115/208-230	Auto	3.2	10.81
	1140								48	102019	32	115/208-230	None	3.7	11.94
	1140	 56	110001	30		 None	3.9	10.88	46 56	110009	33	115/208-230	None	3.6	12.31
1/2	3450	48	100184	19	115/208-230	None	3.4	9.50	48	102020	27	115/208-230	None	3.4	10.44
1/2	3450	S56	100104	20	115/208-230	None	3.4	9.88	56	110399	25	115/208-230	None	3.6	10.44
	3450	S56	100052	21	115/208-230	Manual	3.4	9.88	56	110141	26	115/208-230	Manual	3.6	10.81
-	1725	48	100032	20	115/208-230	None	4.4	9.50	48	100956	22	115/208-230	None	4.4	10.44
	1725	S56	100007	21	115/208-230	None	4.4	9.88	56	110012÷	25	115/208-230	None	4.4	10.44
	1725	S56	100007	21	115/208-230	Manual	4.4	9.88	56	1100124	27	115/208-230	Manual	4.4	10.81
	1725	S56	100004	20	115/208-230	Auto	4.4	9.88	56	1100214	25	115/208-230	Auto	4.4	10.81
-	1140	56	110002	34	115/208-230	None	5.0	11.38	56	110010	39	115/208-230	None	4.9	12.81
3/4	3450	S56	100340	24	115/208-230	None	4.8	10.88	56	110276	28	115/208-230	None	5.0	11.31
3/4	3450	S56	100053	24	115/208-230	Manual	4.8	10.88	56	110108	28	115/208-230	Manual	5.0	11.31
-	1725	S56	100003	26	115/208-230	None	5.4	10.63	56	110013÷	30	115/208-230	None	5.4	11.31
	1725	S56	100005	26	115/208-230	Manual	5.4	10.63	56	1100130	30	115/208-230	Manual	5.4	11.31
	1725	S56	101544☆	26	115/208-230	Manual	3.8	10.88		110022		110/200-200			
	1725	S56	100003	26	115/208-230	Auto	5.4	10.63	56	110017÷	30	115/208-230	Auto	5.4	11.31
-	1140	56H	110003	44	115/208-230	None	6.4	12.88	56H	110400☆□	43	115/208-230	None	5.3	13.31
1	3450	56	110360	30	115/208-230	None	6.0	10.88	56	110059	30	115/208-230	None	6.0	11.81
	3450	56	110007	29	115/208-230	Manual	6.0	10.88	56	110142	31	115/208-230	Manual	6.0	11.81
	1725	56	110097	30	115/208-230	None	6.4	10.88	56	1102094	34	115/208-230	None	7.0	11.81
	1725	56	110167	38	115/208-230	Manual	6.4	10.88	56	1102094	34	115/208-230	Manual	6.4	11.81
	1725	56	113630☆	40	115/208-230	Manual	5.3	10.88							
	1725	56	110000	31	115/208-230	Auto	6.4	10.88	 56	 110018 	31	115/208-230	Auto	6.4	12.31
	1725	143T	120044	38		None	6.4		56 143T	120025	31 34	115/208-230		6.4	12.31
		1431 143T			115/208-230	Manual		11.13	143T				None	6.4	
	1725 1725	1431 143T	120003 120000	38 38	115/208-230 115/208-230	ivianuai Auto	6.4 6.4	11.13 11.13		1200084	38	115/208-230	Manual 	6.4	12.75
-	1140		120000		115/208-230	Auto	0.4		145T	120043☆	47	115/230	None	6.7	14.25

[□] Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.

☆ Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.

❖ These totally enclosed single phase motors have 1.15 Service Factors.

SINGLE PHASE MOTORS





DRIP-PROOF

TOTALLY ENCLOSED FAN COOLED (TEFC)

												•		-
RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
3450	56 56 56	110361 110110 113631☆	29 29 36	115/208-230 115/208-230 115/208-230	None Manual Manual	8.6 8.6 6.7	10.88 10.88 11.38	56 56	110094 110109	34 34	115/208-230 115/208-230	None Manual	8.5 8.5	12.31 12.31
3450	143T	120107	32	115/208-230	None	8.6	11.28	143T	120130	34	115/208-230	None	8.5	13.25
1725 1725 1725	56H 56H 56H	110005☆□ 110006☆□ 113266☆□	45 45 42	115/208-230 115/208-230 115/208-230	None Manual Manual	8.6 8.6 6.7	11.88 11.88 12.38	56H 56H	110253☆□ 113333☆□	39 40	115/208-230 115/208-230	None Manual	8.6 8.6	12.81 12.81
1725 1725	 145T	 120042☆	 40	115/208-230	 None	8.6	 12.28	56H 145T	110019☆□ 120026☆	43 42	115/208-230 115/208-230	Auto None	8.6 8.6	12.81 13.25 13.25
1725	145T	120004 ⋈	45	115/208-230	Auto	8.6	12.28					ıvıarıuar 	0.0	13.23
1140								184T	131526	76	115/208-230	None	11.0	15.38
3450 3450 3450	56 56 56	110363 110362 113632☆	38 38 38	115/208-230 115/208-230 115/208-230	None Manual Manual	12.0 12.0 8.6	11.88 12.38 11.38	56H 56H	110352□ 110402□ 	44 44 	115/208-230 115/208-230 	None Manual 	10.0 10.0	13.31 13.31
3450 3450	145T 	120106	40 	115/208-230	None 	12.0 	12.28	145T 145T	120036 120395	44 44	115/208-230 115/208-230	None Manual	10.0 10.0	13.75 13.75
1725 1725	145T 145T	120067☆ 120879☆	47 47	115/230 115/208-230	None Manual	10.5 8.6	13.28 13.31	145T 	120867☆ 	45 	115/208-230	Manual 	9.2	13.75
1725 1725	182T 182T	131515 131536	64 63	115/208-230 115/208-230	None Manual	12.4 12.4	13.19 13.19	182T 	131509 	70 	115/208-230	None 	12.4	13.47
	182T	131535	58	115/208-230	Auto	12.4	13.19							
3450 3450	 182T	131636	 57	 115/208-230	 None	16.0	14.69	145T 182T	120341☆ 131637	48 63	230 115/208-230	None None	14.0 16.0	13.75 15.96
1725 1725 1725	184T 184T 184T	131534 131561 131530	75 75 75	115/230 115/230 115/230	None Manual Auto	16.8 16.8 16.8	14.19 14.19 14.19	184T 	131533 	91 	115/230 	None 	16.8 	15.47
3450	184T	131616	70	115/208-230	None	24.0	15.69	184T	131549☆	81	115/208-230	None	24.0	16.96
1725 1725 1725	184T 184T 184T	131537☆ 131560☆ 131622☆	82 82 85	230 208 230	None None Manual	21.0 23.2 21.0	14.69 14.69 14.69	184T 	131538†☆ 	103 	230 	None 	23.0	16.47
1740	215T	140155☆†	131	230	None	36.0	17.25	215T	140120†☆	169	230	None	33.6	20.13
1740 1740	215TZ 	140311☆†✓ 	166	230	None 	43.0	19.75	213T 215T	140581 140414†☆	202 202	230 230	None Manual	40.0 40.0	20.63 20.63
	3450 3450 3450 3450 1725 1725 1725 1725 1725 1725 1725 1725	60 NEMA Frame 3450 56 3450 56 3450 56 3450 56 3450 143T 1725 56H 1725 56H 1725 145T 1725 182T 1725 182T 1725 182T 1725 182T 1725 182T 1725 184T 1726 184T 1727 184T 1740 215T	80 NEMA Prame Number 3450 56 110361 3450 56 110110 3450 56 113631 ☆ 3450 56 113631 ☆ 3450 143T 120107 1725 56H 110006 ☆□ 1725 56H 113266 ☆□ 1725 145T 120042 ☆ 1725 145T 120001 ☆ 1140 3450 56 110363 3450 56 110363 3450 56 110363 3450 56 110363 3450 56 110363 3450 56 110363 3450 51 120106 3450 51 13632 ☆ 3450 145T 120106 3450 51 13632 ☆ 3450 145T 120106 3450 1725 145T 120067 ☆ 1725 182T 131535 1725 182T 131535 1725 182T 131535 1725 182T 131535 1725 184T 131536 1725 184T 131530 3450 184T 131561 1725 184T 131530 3450 184T 131560 ☆ 1725 184T 131530 3450 184T 131560 ☆ 1725 184T 131560 ☆ 1725 184T 131530 ☆ 1725 184T 131560 ☆ 1725 184T 131530 ☆ 1740 215T 140155 ☆ † 1740 215T 140311 ☆ † ✓	60 Hz NEMA Frame Catalog Number Wgt. (lbs.) 3450 56 110361 29 3450 56 110110 29 3450 56 113631 α 36 3450 143T 120107 32 1725 56H 110005 α α 45 1725 56H 110006 α α 45 1725 56H 113266 α α 40 1725 145T 120004 α 39 1725 145T 120001 α 45 1140 3450 56 110363 38 3450 56 110362 38 3450 56 113632 α 38 3450 145T 120067 α 47 1725 145T 120879 α	60 Hz Frame NEMA Frame Catalog Number Wgt. (lbs.) Voltage 3450 56 110361 29 115/208-230 3450 56 110110 29 115/208-230 3450 56 113631 ★ 36 115/208-230 3450 56 113631 ★ 36 115/208-230 3450 143T 120107 32 115/208-230 1725 56H 110006 ★□ 45 115/208-230 45 115/208-230 1725 56H 110006 ★□ 45 115/208-230 45 115/208-230 1725 56H 113266 ★□ 42 115/208-230 45 115/208-230 1725 145T 120004 ★ 39 115/208-230 39 115/208-230 1725 145T 120001 ★ 45 115/208-230 115/208-230 1140 3450 56 110363 38 115/208-230 38 115/208-230 3450 56 110362 38 115/208-230 38 115/208-230 3450 56 113632 ★ 38 115/208-230 38 115/208-230 3450 145T 120106 40 115/208-230 1725 145T 120879 ★ 47 115/208-230 1725 182T 131536 63 115/208-230 1725 182T 131536 75 115/208-230 3450 182T 131636 57 115/230 3450 182T 131636 75 115/230 1725 184T 131561 75 115/230 1725 184T 131534 75 115/230 1725 184T 131560 75 115/230 1725 184T 131560 75 115/230 1725 184T 1	NEMA Catalog Wgt. Voltage Overload Protection	60 Hz Frame NEMA Prame Catalog Number (lbs.) Wgt. Voltage (lbs.) Overload Protection 230V Amps 230V 3450 56 110361 29 115/208-230 None 8.6 3450 56 113631	60 NEMA Hz NEMA Frame Catalog Number Wigit (lbs.) Voltage Overload Protection Amps 230V (Inches) Dim. (Inches) 3450 56 110110 29 115/208-230 Manual 8.6 10.88 3450 56 113631 ★ 36 115/208-230 Manual 6.7 11.38 3450 143T 120107 32 115/208-230 Manual 6.7 11.38 3450 143T 120107 32 115/208-230 None 8.6 11.28 1725 56H 110005 ★□ 45 115/208-230 Manual 8.6 11.88 1725 56H 113266 ★□ 42 115/208-230 Manual 8.6 11.88 1725 145T 120042 ★ 40 115/208-230 Manual 8.6 12.28 1725 145T 120004 ★ 39 115/208-230 Manual 8.6 12.28 1725 145T 120001 ★ 45 115/208-230	60 NEMA Hz Nember Rame Wight Number (lbs.) Voltage Protection Overload 230V (Inches) Dim. September Rame Frame Fr	60 NEMA transport NEMA (bits) Catalog (bits) Voltage Overload Protection John (linches) NEMA (minches) NemA (m	60 NEMA REPRIAR NEMA Catalog Number (bs.) Voltage Overload Protection Amps Dim. (liches) REMA Number Catalog Number Wgt. (liches) 3450 56 110361 29 115/208-230 None 8.6 10.88 56 110094 34 3450 56 113631 % 36 115/208-230 Manual 6.7 11.38 3450 143T 120107 32 115/208-230 None 8.6 11.28 143T 120130 34 1725 56H 110005 % □ 45 115/208-230 None 8.6 11.88 56H 110253 ½ □ 39 1725 56H 110006 % □ 45 115/208-230 Manual 8.6 11.88 56H 110253 ½ □ 39 1725 56H 110004 % 40 115/208-230 None 8.6 12.28 145T 12006	Rb. Rem. k. Rem. k. Rem. k. Rem. k. Catalog (ibs.) k. Wight (ibs.) k. Voltage Protection 2000 k. Catalog (ibs.) k. Wight (ibs.) k. Voltage Protection 2000 k. Rem. k. Aumber (ibs.) k. Voltage Protection 3450 56 110010 29 115/208-230 None 8.6 10.88 56 11009 34 115/208-230 3450 115/208-230 Manual 8.6 10.88 56 110109 34 115/208-230 3450 115/208-230 Manual 8.6 11.28 11.28 1.00 34 115/208-230 34 115/208-230 None 8.6 11.28 11.28 1.00 34 115/208-230 34 115/208-230 1.00 8.6 11.28 56H 110055	Rehat Re	Beautiful Be

 [□] Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.
 ☆ Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.
 ✔ Motor with standard diameter shaft, 1.0" longer than standard.
 † Class F insulated.
 ♣ These totally enclosed single phase motors have 1.15 Service Factors.

C-Face kits available More single-phase motors available - See LEESON's 1050 Stock Catalog

THREE PHASE MOTORS LEESON **RIGID BASE • GENERAL PURPOSE**









DR	IP-P	ROOF						
HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/4	1725 1725	 S56	100027	 16	 208-230/460	 1.4	66.0	 9.24
1/3	3450	48	101447	14	208-230/460	1.4	61.0	9.00
	1725 1725	48 S56	100446 100028	17 18	208-230/460 208-230/460	1.6 1.6	68.0 68.0	9.12 9.49
	1140	56	110425	23	208-230/460	1.6	65.0	9.88
1/2	3450 3450	 S56	101448	 17	208-230/460	1.8	69.0	 9.38
	1725 1725	 S56	100029	 20	208-230/460	2.0	 75.0	9.99
	1140	56	110027	22	208-230/460	2.8	66.0	10.38
	850							
3/4	3450 3450	 S56	 101449	 20	208-230/460	2.4	79.0	9.88
	1725	S56	100030	24	208-230/460	2.8	75.0	10.49
	1140 1140	56 	110028	17 	208-230/460	3.4	75.5 	10.88
	850							
1	3450 3450	56 56	110426 116128 W	22 29	208-230/460 208-230/460	3.6 3.4	80.6 82.5	9.88 10.18
	1725 1725 1725 1725	56 56HZ 143T 143T	110029 115827 G120010 121003 W	22 24 30 36	208-230/460 208-230/460 208-230/460 208-230/460	4.2 4.2 3.1 3.2	78.5 78.5 82.5 85.5	10.38 11.13 11.28 12.12
	1140 1140 1140	 145T 145T	G120089 121517	 35 41	 208-230/460 208-230/460	3.6 4.4	80.0 82.5	 12.28 12.62
	850							
1½	3450 3450 3450	56 143T 143T	110429 G120103 121514W	29 35 34	208-230/460 208-230/460 208-230/460	4.2 4.0 4.2	82.1 82.5 84.0	10.88 11.63 12.12
	1725 1725 1725 1725 1725 1725	56 56 56HZ 145T 145T	110430 111309 ♦ 115825 G120011 121004 ₩	27 33 34 37 35	208-230/460 208-230/460 208-230/460 208-230/460 208-230/460	5.6 5.6 5.6 4.4 4.8	78.5 78.5 78.5 84.0 86.5	10.88 10.88 11.13 12.28 12.62
	1140 1140	 182T	G130010	 54	208-230/460	5.6	84.0	13.69
	850							

	1725	1431	121003 W	30	208-230/460	3.2	85.5	12.12	1431	120921 1	
	1140								56	113933	
	1140	145T	G120089	35	208-230/460	3.6	80.0	12.28	145T	G120087	
	1140	145T	121517	41	208-230/460	4.4	82.5	12.62	145T	121520W	
	850								182T	131478	
11/2	3450	56	110429	29	208-230/460	4.2	82.1	10.88	56	110745♣	
	3450	143T	G120103	35	208-230/460	4.0	82.5	11.63	145T	G120086	

Combination 56H base motors have mounting holes for NEMA 56 and NEMA
143-5T and a standard NEMA 56 shaft.

^{1.0} Service Factor.

TALLY ENCLOSED FAN COOLED (TEFC)

	TOTA	LLY EN	CLOS	ED FAN C	:OOLED	(TEF	:C)
)	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
_	48	101646	18 	208-230/460	1.4	66.0	9.31
	48	102684	17	208-230/460	1.3	69.0	9.06
	48	101647	21	208-230/460	1.6	68.0	9.31
	S56	101079	18	208-230/460	1.6	68.0	9.69
	56	110441	23	208-230/460	1.6	65.0	10.81
	48 	100905	18 	208-230/460	1.8	69.0	9.94
	48 S56	100961 ♣ 100913	21 24	208-230/460 208-230/460	2.0 2.0	75.0 75.0	9.56 9.94
	56	110353	26	208-230/460	2.4	70.0	11.31
	56	114618	31	208-230/460	2.4	69.0	11.81
	48 56	100960 ♣ 110313	21 22	208-230/460 208-230/460	2.4 2.4	75.0 75.5	10.44 10.81
	56	110034	22	208-230/460	2.8	77.0	10.81
_	56 143T	110275 121009	33 34	208-230/460 208-230/460	3.0 3.0	75.5 75.5	11.81 12.75
	145T	121199	21	208-230/460	3.1	70.0	12.75
	56 56	110145 116129W	24 29	208-230/460 208-230/460	3.2 3.4	77.1 84.0	10.81 11.31
	56 56HZ 143T 143T	110035 115830 G120014 120921 W	25 31 31 32	208-230/460 208-230/460 208-230/460 208-230/460	3.8 3.8 3.1 3.2	77.0 77.0 82.5 85.5	11.31 12.75 12.75 13.25
	56 145T 145T	113933 G120087 121520 W	35 45 47	208-230/460 208-230/460 208-230/460	4.0 3.6 4.4	77.0 80.0 82.5	12.31 13.25 13.75
	182T	131478	57	230/460	4.2	74.0	12.96
	56 145T 143T	110745♣ G120086 121518₩	30 45 33	208-230/460 208-230/460 208-230/460	4.2 4.0 4.2	80.3 82.5 84.0	11.81 12.75 13.25
	56	110444	30	208-230/460	5.0	78.5	11.81
	 56HZ 145T 145T	115829 G120015 120922 W	37 36 34	208-230/460 208-230/460 208-230/460	5.0 4.4 4.8	78.5 84.0 86.5	12.75 12.75 12.75 13.75
	56H	114930	48	208-230/460	5.7	77.0	13.31
	56HZ	120183	48	208-230/460	5.7	77.0	13.75
	182T	G130015	82	208-230/460	5.6	85.5	14.96
	184T	131479	68	230/460	5.6	77.0	13.96

Motors in this column have a 1.15 Service Factor, except as noted by ♣, which have a 1.0 Service Factor.

Class F insulated.
Automatic reset overload protection. Reconnectable for 277 volt operation without overload protection.

W Premium efficiency WATTSAVER® Motors.

THREE PHASE MOTORS RIGID BASE • GENERAL PURPOSE

DRIP-PROOF

TOTALLY ENCLOSED FAN COOLED (TEFC)

UF	JRIP-PROUF									ALLY ENG	LUSI	D FAN CU	OLED	(IEFC	·)
HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
2	3450 3450 3450	56 145T 145T	113292 G120076 121515W	33 45 36	208-230/460 208-230/460 208-230/460	5.6 5.0 5.0	82.9 84.0 84.0	11.38 12.28 13.12	56 145T 145T	111916 G120088 121519W	33 45 44	208-230/460 208-230/460 208-230/460	5.6 5.0 5.0	78.8 84.0 85.5	12.31 13.75 14.25
-	1725	56H	113025	32	208-230/460	6.2	78.5	11.38	56H	113026	35	208-230/460	6.2	81.5	12.31
	1725 1725 1725	56H 56HZ 145T	111310 → 115826 G120012	36 33 45	208-230/460 208-230/460 208-230/460	6.2 6.2 6.0	78.7 78.5 84.0	11.38 11.63 13.78	 56HZ 145T	115828 G120016	37 46	208-230/460 208-230/460	6.2 6.0	81.5 84.0	12.75 14.25
_	1725	145T	121005W	37	208-230/460	5.8	86.5	13.63	145T	120923W	45	208-230/460	5.8	86.5	14.76
-	1140	184T	G130012	81	208-230/460	7.2	85.5	14.69	184T	G130016	83	208-230/460	7.2	86.5	15.46
_	850								213T	140516†	107	230/460	8.8	77.0	17.21
3	3450 3450 3450 3510	56H 145T 	113293 G120077 	38 45 	208-230/460 208-230/460 	8.0 7.2 	80.0 84.0 	11.88 12.78 	56H 145T 182T 182T	114614 G120185 G130099 G151563	40 42 60 58	208-230/460 230/460 208-230/460 208-230/460	8.0 7.4 7.6 9.0	80.0 85.5 85.5 85.5	12.81 13.75 13.46 16.14
-	1725 1740 1740 1750 1750	56HZ 182T 182T 	120013 G130000 131519W	44 57 75 	230/460 208-230/460 208-230/460 	8.6 8.4 8.2 	82.5 86.5 89.5 	13.12 12.69 13.69 	56HZ 182T 182T 182T 182T	121034♣ G130008 131463 ₩ G151320 171320 ₩	45 68 74 94 104	208-230/460 208-230/460 208-230/460 208-230/460 208-230/460	8.6 8.2 8.2 8.5 7.8	82.5 87.5 89.5 87.5 89.5	14.25 13.96 14.46 16.14 15.89
-	1140	213T	G140550	140	208-230/460	11.6	86.5	15.76	213T	G140551	116	208-230/460	12.0	87.5	17.71
	850								215T	140518†	114	230/460	12.6	80.0	17.21
5	3500 3450	 182T	G130282	 64	208-230/460	 12.2	 85.5	 13.19	184T 184T	G150299 G130101	100 73	208-230/460 208-230/460	12.0 12.0	87.5 87.5	15.89 14.46
_	1740 1740 1750 1750	184T 184T 	G130004 131520 W	69 82 	208-230/460 208-230/460 	13.2 12.8 	87.5 89.5 	13.69 14.69 	184T 184T 184T 184T	G130027 131464 W G151322 171322 W	80 91 101 109	208-230/460 208-230/460 208-230/460 208-230/460	13.0 13.0 13.8 12.4	87.5 89.5 87.5 89.5	14.96 15.96 16.14 15.89
-	1140	215T	G140122	120	208-230/460	17.6	87.5	16.75	215T	G140126	142	208-230/460	17.6	87.5	18.21
71/2	850 3510								254T 213T	151355 170158 W	188	208-230/460	14.4	91.0	23.23
	3450 3450 3450 3510	 184T 	G130284 	78 	208-230/460 	17.6 	87.5 	14.69 	 184T S213T 213T	G131082 G130103 G150158	91 101 150	208-230/460 208-230/460 208-230/460	16.8 16.8 17.8	88.5 88.5 88.5	15.96 16.59 18.20
-	1740 1750 1760	213T 213T 213T	G140471 G150142 170142 W	144 147 160	208-230/460 208-230/460 208-230/460	20.0 19.6 19.8	88.5 88.5 91.0	15.25 16.38 16.38	213T 213T 213T	G140578 G150157 170157 W	144 153 155	208-230/460 208-230/460 208-230/460	20.4 19.2 18.6	89.5 89.5 91.7	17.71 18.19 18.19
	1170 1170	254T	G150145	240	208-230/460	20.2	88.5 	20.94	254T 254T	G150122 170122 W	250 249	208-230/460 208-230/460	20.0 21.0	89.5 91.7	23.23 23.19
-	850								256T	151356	300	208-230/460	20.0	87.7	24.96
10	3450 3510 3510	213T 213T 213T	G140682 G150143 170143 W	138 168 150	208-230/460 208-230/460 208-230/460	23.4 24.0 23.6	88.5 88.5 91.0	17.30 16.38 16.38	215T 215T 215T	G140686 G150159 170159 W	126 167 181	208-230/460 208-230/460 208-230/460	24.0 23.6 23.4	89.5 89.5 91.7	20.23 19.61 19.61
-	1740 1750 1760	215T 215T 215T	G140490 G150144 170144W	132 168 200	208-230/460 208-230/460 208-230/460	28.0 25.0 25.6	89.5 89.5 91.7	16.75 17.87 17.87	215T 215T 215T	G140489 G150140 170140 W	167 176 177	208-230/460 208-230/460 208-230/460	26.0 25.2 25.0	89.5 89.5 91.7	18.71 19.61 19.61
-	1170 1170	256T	G150146	268 	208-230/460	27 	90.2	22.60	256T 256T	G150123 170123 W	277 300	208-230/460 208-230/460	26.2 29.0	89.5 91.7	24.92 24.92
-	850								284T	150282	346	208-230/460	26.0	88.8	26.26
15	3450	215T	G140683	145	208-230/460	37.0	90.02	18.55	215T	G140687	140	208-230/460	36.0	90.2	20.23
	1760	S254T	G140579	150	208-230/460	39.6	91.0	20.07							
												4.45.0 .			

[◆] Automatic reset overload protection. Reconnectable for 277 volt operation without overload protection

Motors in this column have a 1.15 Service Factor, except as noted by ♣, which have a 1.0 Service Factor.

C-Face kits available

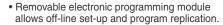
More three-phase motors available - See LEESON's 1050 Stock Catalog

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

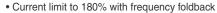
AC ADJUSTABLE SPEED DRIVES SM SERIES SUB-MICRO INVERTERS

SM SERIES SUB-MICRO INVERTER DRIVES

For applications requiring a simpler drive without the advanced features of the SM-Plus drive. Provides 11 isolated I/O terminals with one Form A relay output. Other features include:







- Adjustable carrier frequency (4 to 10 kHz)
- Adjustable V/Hz
- Output frequency to 240 Hz
- Seven preset speeds
- · Automatic restart after fault
- Control via drive face, terminal strip or optional remote keypad
- Coast or ramp to stop
- Independent Accel and Decel adjustment
- Forward only or forward and reverse direction
- · Adjustable DC injection braking
- Speed reference: Keypad, 0-10 VDC, or 4-20 mA
- Speed reference calibration
- Speed and load indicating output signal selection: 0-10 VDC or 4-20mA
- Output signal calibration
- I²t motor thermal overload protection; meets UL requirements for motor protection in single motor applications
- Fixed boost for high starting torque
- Accel boost for high torque accelerating at any speed
- Slip compensation
- Three-digit LED display
- · Password protection
- Fault history: Stores eight previous trips
- Terminal status indication
- · Default parameter reset
- IP20 enclosure with finger safe terminals

SINGLE PHASE INPUT/THREE PHASE OUTPUT

	HP	Output Amps 230 VAC	Input Voltage	Catalog Number	App. Wgt.(lbs.)	Disc. Sym.	Dimension Key
Volts	1/3	1.7	110-120	174263	2	Α	A5
0	1/2	2.4	110-120	174264	2	Α	A5
0-12	1	4.2	110-120	174265	3	Α	B5
=	11/2	6.0	110-120	174266	3	Α	B5

SINGLE PHASE INPUT/THREE PHASE OUTPUT

	HP	Output Amps	Input Voltage	Catalog Number	App. Wgt.(lbs.)	Disc Sym.	Dimension Key
	1/3	1.7	208-240	174267	2	Α	A5
<u>t</u>	1/2	2.4	208-240	174268	2	Α	A5
) Volts	1	4.2	208-240	174270	3	Α	A6
208-240	11/2	6.0	208-240	174271	4	Α	B5
700	2	7.0	208-240	174272	5	Α	B5
	3	9.6	208-240	174273	5	Α	B6

THREE PHASE INPUT/THREE PHASE OUTPUT

	HP	Output Amps	Input Voltage	Catalog Number	App. Wgt.(lbs.)	Disc Sym.	Dimension Key
	1/2	2.4	208-240	174274	2	Α	A5
Volts	1	4.2	208-240	174276	2	Α	A6
	11/2	6.0	208-240	174277	3	Α	A7
208-240	2	7.0	208-240	174278	3	Α	A7
208	3	9.6	208-240	174279	3	Α	В6
	5	15.2	208-240	174288	5	Α	B6

THREE PHASE INPUT/THREE PHASE OUTPUT

	HP	Output Amps	Input Voltage	Catalog Number	App. Wgt.(lbs.)	Disc Sym.	Dimension Key
	1/2	1.1	400-480	174281	2	Α	A1
Volts	1	2.1	400-480	174282	3	Α	A2
%	11/2	3.0	400-480	174283	3	Α	А3
0-480	2	3.4	400-480	174284	4	Α	A3
400-	3	4.8	400-480	174286	4	Α	B2
	5	7.8	400-480	174287	5	Α	B2

See LEESON's complete line of AC drives and accessories in the 1050 Stock Catalog



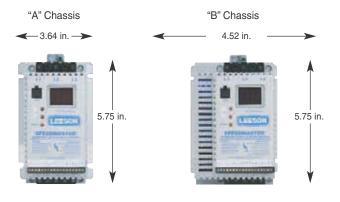
SM SERIES







DIMENSIONS: SUB-MICRO INVERTERS



Depth: A1: 3.94 in. A2: 4.74 in. A3: 5.74 in.

A5: 3.26 in.

A6: 3.63 in. A7: 5.56 in. Depth: B1: 5.24 in. B2: 6.74 in.

B2: 6.74 in. B5: 4.88 in. B6: 5.53 in.

JET PUMP MOTORS

SINGLE PHASE



JET PUMP MOTORS

General Specifications:

Stator impregnated with extra heavy varnish system. High temperature copper magnet wire provides extended motor life. "Super Hush" flow-through ventilation system (exhaust shaft-end) standard. Vertical or horizontal mounting (drip-cover available). Ground provision. Die cast aluminum NEMA 56 C face mounting flange, with cast iron bearing seat insert. Mechanical bearing lock-shaft-end, for longer life. Reliable, field proven, corrosion resistant rotating switch. High overload capacities provided by service factor. Neoprene shaft flinger on J frame motors protects bearings by repelling moisture and other contaminants.

Shaft Material:

Keyed shafts are made of carbon steel. Threaded shafts are 416 stainless steel. Shafts are CW rotation, facing lead end.

Bearings:

203 Double-sealed ball bearing, shaft-end; 203 Double-shielded ball bearing, switch-end. Shaft-end bearing is locked to limit axial movement of the shaft.

Terminal Board:

1/4" Quick connects (keyed shaft motors are reversible).

U.L. and C.S.A. Recognized:

Motor components (UL File No. E57948).

Class "B" insulation system (UL File No. E55555).

Thermal protector/winding combination (UL No. E57955) through 1HP C.S.A. listed through 1HP (Report No. LR33543).

SERVICE FACTORS FOR LEESON SINGLE PHASE JET PUMP MOTORS*

HP	Drip-Proof Service Factor	TEFC Service Factor
1/2	1.60	1.60
3/4	1.50	1.50
1	1.40	1.25
1½	1.30	1.00
2	1.25	1.00
3	1.15	_

^{*} Applies to general purpose motors only, not explosionproof.

KEYED SHAFT • DRIP-PROOF SINGLE PHASE • LESS BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)	
1/2	3450	S56C	100204	19	115/208-230	Auto	4.2	9.81	
3/4	3450	S56C	100205+	21	115/208-230	Auto	5.2	10.40	
1	3450	S56C	100722+	24	115/208-230	Auto	6.2	10.81	
11/2	3450	56C	110288	31	115/208-230	Auto	9.0	11.38	_
2	3450	56C	110289	37	115/208-230	Auto	10.5	12.38	
3	3450	56C	110280☆	49	230	Auto	13.6	13.69	_

THREADED SHAFT • DRIP-PROOF SINGLE PHASE • LESS BASE

HF	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	S56J	100207+	19	115/208-230	Auto	4.2	10.84
3/4	3450	S56J	100208+	21	115/208-230	Auto	5.2	10.94
1	3450	S56J	100723+	23	115/208-230	Auto	6.2	11.44
11/	3450	56J	110292+	31	115/208-230	Auto	9.0	11.88
2	3450	56J	110293+	37	115/208-230	Auto	10.5	12.38
3	3450	56J	110286☆+	51	230	Auto	13.6	13.68

THREADED SHAFT • TEFC SINGLE PHASE • LESS BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56J	113955+	22	115/208-230	Auto	3.6	11.31
3/4	3450	56J	113956+	26	115/208-230	Auto	5.0	11.81
1	3450	56J	113639+	30	115/208-230	Auto	6.0	12.31
11/2	3450	56J	113640+	34	115/208-230	Auto	8.5	12.81
2	3450	56J	113641+	41	115/208-230	Auto	10.0	13.81

THREADED SHAFT • TEFC SINGLE PHASE • WITH BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56J	113637+	23	115/208-230	Auto	3.6	11.31
3/4	3450	56J	113638+	26	115/208-230	Auto	5.0	11.81
1	3450	56J	113957+	28	115/208-230	Auto	6.0	12.31
11/2	3450	56J	113958+	34	115/208-230	Auto	8.5	12.81
2	3450	56J	113959+	43	115/208-230	Auto	10.0	13.81

THREADED SHAFT • EXPLOSION PROOF • TEFC SINGLE PHASE • C-FACE LESS BASE

НР	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56J	116188	35	115/208-230	Auto	3.6	13.96
3/4	3450	56J	116186	40	115/208-230	Auto	5.0	13.96
1	3450	56J	116185	49	115/208-230	Auto	6.0	14.96
11/2	3450	56J	116183	52	115/208-230	Auto	8.5	14.96
2	3450	56J	116181	54	115/208-230	Auto	10.5	15.96

⁺ These motors are fixed rotation—CW from lead end.

Capacitor start/capacitor run designed for reduced amperage, others are capacitor start/induction run.

JP PUMP MOTORS



General Specifications:

For use with close-coupled pumps having NEMA JP mounting and shaft dimensions. In such applications, the pump impeller is mounted directly on the motor shaft. Designed for continuous duty service. All motors listed are 1.15 Service Factor.

Mechanical Features:

Open drip-proof construction with rigid base mounting. Locked bearing on shaft end limits axial shaft movement. For use where the environment is relatively clean and dry. For outdoor use, an enclosure or drip cover may be preferred. See the Drip Cover Kit table. Some 182-4JP frame motors have enclosed endshields as standard with frame meeting the 12' drip-proof requirement. No drip cover is needed, or shown in the table, for these motors.

Electrical Features:

UL Recognized and CSA Certified. Single phase designs are capacitor start, induction run.

SINGLE PHASE • DRIP-PROOF • RIGID BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Wgt. Overload		F.L. Amps 230V	"C" Dim. (Inches)	Drip Cover Kit Ref.
5	3450	184JP	131859 ^d	78	230	None	24.0	20.15	В
	3450	184JP	131881	92	230	None	22.0	19.38	
71/2	3450	213JP	140646	140	230	None	37.0	14.17	С
10	3450	215JP	140647	157	230	None	47.0	15.67	С

DRIP COVER KITS FOR JP PUMP MOTORS

Kit Ref.	Frame	Catalog Number	Enclosure
В	182JP-184JP	175933	ODP
С	213JP-215JP	175305	ODP

JM PUMP MOTORS

General Specifications:

Designed for continuous duty service on close-coupled pumps using NEMA JM mounting provisions. All motors have a rigid mounting base and NEMA JM pump shaft.

Mechanical Features:

Open drip-proof construction, cooling air exhausts at the shaft end for maximum cooling. Oversized locked bearing on shaft end limits axial shaft movement. Drip covers are available as accessory kits for 143-5JM and 182-4JM motors. See the drip cover kit table. Some 182-4JM frame motors have enclosed endshields as standard with frame vents meeting the 12° drip-proof requirement. No drip cover is needed, or shown in the table, for these motors.

Electrical Features:

High efficiency copper windings with NEMA 1.15 service factors. UL and CSA recognized designs.

Single phase designs are capacitor start/induction run unless indicated otherwise.

SINGLE PHASE • DRIP-PROOF • RIGID BASE

	HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)	Drip Cover Kit Ref.
ľ	1	1740	143JM	120996☆	42	115/208-230	None	6.4	14.41	A
	11/2	1740	145JM	120994	45	115/208-230	None	8.6	15.41	Α
ľ	2	3450	145JM	121190☆	47	115/208-230	None	10.5	16.41	A
		1740	145JM	120995	45	115/208-230	None	10.5	15.41	Α
ľ	3	3450	182JM	131640	57	115/208-230	None	15.2	16.32	С
		1760	182JM	131604	73	230	None	16.8	15.82	С
	5	3450	184JM	131641	70	115/208-230	None	24.0	17.32	С
		1760	184JM	131605	82	230	None	21.0	16.32	С
·	71/2	3450	213JM	140642	140	230	None	37.0	14.17	E
		1760	215JM	140643☆d	141	230	None	34.5	18.38	Е
		1760	215JM	140665☆	141	230	None	40.5	15.67	Е
·	10	3450	215JM	140644	144	230	None	47.0	18.38	E
		1760	215JM	140645☆d	173	230	None	44.0	16.93	Е
		1760	215JM	140666☆	144	230	None	43.0	19.88	Е

Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.

DRIP COVER KITS FOR JM PUMP MOTORS

Kit Ref.	Frame	Catalog Number	Enclosure
А	143-145JM	175004	ODP
С	182-184JM	175933	ODP
Е	213-215JM	175305	ODP

d To be discontinued when present stock is depleted

WOODWORKING MOTORS



WOODWORKING MOTORS

General Specifications:

Motors designed for woodworking equipment such as table saws, planers, etc.

Totally enclosed designs prevent motor problems caused by wood dust and shavings.



SINGLE PHASE • TEFC • RIGID BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)	
3/4	3450	56	110108	26	115/208-230	Manual	5.0	11.31	_
1	3450	56	110142	28	115/208-230	Manual	6.0	11.81	_
1 ½	3450	56	110109	34	115/208-230	Manual	8.5	12.31	_
2	3450 3450	56H 145T	110402 . □† 120395 . †	41 44	115/208-230 115/208-230	Manual Manual	10.0 10.0	13.31 13.75	_
3	3450	145T	120341☆†	46	230	None	14.0	13.75	-

SINGLE PHASE • TEFC • C FACE LESS BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
3	3450	145TC	120824☆	46	230	Manual	14.0	13.88

TABLE SAW MOTOR

General Specifications:

Totally enclosed fan cooled motor produces extra high breakdown torques for maximum cutting power.

Supplied with 8-foot cord and 115V plug, on/off toggle switch. CW rotation, facing lead end. Replaces Delta motor number 62-042.



SINGLE PHASE • TEFC • RIGID BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1½	3450	56	113627	39	115/230	Manual	7.5	12.31

CONTRACTORS' SAW MOTORS

Special Mounting:

Motor pivots on rod for belt tensioning. Totally enclosed fan cooled motor produces extra high breakdown torques for maximum cutting power. Has 1¾" long shaft, ¾" diameter with keyway. Added 54" cord to all motors 11/2-4 HP. Catalog numbers 120925 and 120997 replace Delta UNISAW® motor 83-621 (1½ HP); 120728 and 120998 replace Delta UNISAW® motor 83-651 (3 HP).



SINGLE PHASE • TEFC • DELTA UNISAW® MOUNTING

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
11/2	3450	143Y	120925	44	115/230	None	10.0	12.69
2	3450	143Y	120997	44	115/230	None	11.0	12.69
3	3450	145Y	120728☆	52	230	None	16.0	13.69
4	3450	145Y	120998☆	48	230	None	17.6	13.69

UNISAW® is a registered trademark of Delta International

CONTRACTORS' POWER TOOL MOTORS

General Specifications:

Open, drip-proof double shaft motors for woodworking applications. With encapsulated, electronic starting switch and double shielded ball bearings to prevent failures caused by sawdust accumulation.

Capacitor start design for high torques and reduced amperage, improved efficiency.

Shaft extension each end, with keyway and flat 90° apart for ease

Useable shaft, each end is 11/2" long by 1/2" diameter on 48 frames and 17/8" long by 5/8" diameter on 56 frame motors.

DOUBLE-SHAFT • SINGLE PHASE DRIP-PROOF • RIGID BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/2	1725	S56Z	101781	17	115/208-230	None	4.4	12.43
3/4	3450	48Z	101782	24	115/208-230	None	4.8	12.06
1	3450	56Z	114216	27	115/208-230	None	6.0	12.81

- Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.
- Class F insulated.
 Combination 56 H base motors have mounting holes for NEMA 56 and
- NEMA 143-5T and a standard NEMA 56 shaft.
 These totally enclosed single phase motors have 1.15 Service Factors.



WASHGUARD® MOTORS SHED WATER LIKE A DUCK!

SINGLE PHASE • TEFC • RIGID BASE

Featuring Electronic Solid State Encapsulated Switch

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/2	1725	56	112431	24	115/208-230	None	4.4	10.81
3/4	1725	56	112432	31	115/208-230	None	5.4	11.31
1	1725 1740	56 143T	112626 120589	33 34	115/208-230 115/208-230	None None	6.4 6.4	11.81 12.25
11/2	1740	145T	120590	47	115/208-230	None	9.5	13.75
2	1740	182T	131571	60	115/208-230	None	12.6	13.46



SINGLE PHASE • TEFC • C FACE LESS BASE

Featuring Electronic Solid State Encapsulated Switch

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/3	3450	56C	114310	25	115/208-230	None	2.6	10.69
	1725	56C	114311	27	115/208-230	None	3.2	10.69
1/2	3450	56C	114312	25	115/208-230	None	3.6	10.69
	1725	56C	114313	29	115/208-230	None	4.4	11.19
3/4	3450	56C	114314	31	115/208-230	None	5.0	11.69
	1725	56C	114315	31	115/208-230	None	5.4	11.69
1	3450	56C	114316	29	115/208-230	None	6.0	12.19
	1725	56C	114317	34	115/208-230	None	6.4	12.19
11/2	3450	56C	114318	36	115/208-230	None	8.5	12.69
	1725	56C	114319	43	115/208-230	None	9.5	13.69

SINGLE PHASE • TEFC • C FACE WITH BASE

Featuring Electronic Solid State Encapsulated Switch

		_						
HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Overload Protection	F.L. Amps 230V	"C" Dim. (Inches)
1/3	3450	56C	113580	27	115/208-230	None	2.6	10.69
	1725	56C	112526	28	115/208-230	None	3.2	10.69
1/2	3450	56C	113581	25	115/208-230	None	3.6	10.69
	1725	56C	112527	28	115/208-230	None	4.4	11.19
3/4	3450	56C	113582	31	115/208-230	None	5.0	11.69
	1725	56C	112528	30	115/208-230	None	5.4	11.69
1	3450	56C	113583	31	115/208-230	None	6.0	12.19
	1725	56C	112529	33	115/208-230	None	6.4	12.19
11/2	3450	56C	113584	36	115/208-230	None	8.5	12.69
	1725	56HC	113300	45	115/208-230	None	9.5	13.69
2	3450	56HC	114637	43	115/208-230	None	10.0	13.69



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.

Three-phase Washguard® motors with epoxy paint and all-stainless steel also available See LEESON's 1050 Stock Catalog

FRACTIONAL & INTEGRAL HP GEAR+MOTORS







AC GEAR+MOTORS • SINGLE PHASE BMQ STYLE • TEFC • 115/230 VAC 60HZ • CONTINUOUS DUTY • 1750 RPM INPUT

	O. shows at							Λ	AG♥♥
Output RPM	Output TQ (lb.in.)	Input HP	GEAR+MOTOR™ Catalog Number	OHL	Service Factor*	NEMA Frame	F.L. Amps 230V	App. Wgt. (lbs.)	Dim. (Inches)
	102	1/3	W6130075-101766	200	2.15	S56C	3.1	39	8.25
	156	1/2	W6130075-110056	200	1.40	56C	4.4	42	8.75
175	233	3/4	W6130075-110057	200	.94	56C	5.4	47	9.25
10:1 Ratio	315	1	W6180111-110058	500	1.38	56C	6.4	56	9.82
	478	11/2	W6210147-120017	700	1.40	145TC	8.6	69	10.75
	638	2	W6210147-120060	700	1.05	145TC	10.0	76	11.75
	949	3	W6240219-131545	900	1.05	184TC	16.8	143	13.78
	143	1/3	W6130076-101766	200	1.69	S56C	3.1	39	8.25
	216	1/2	W6130076-110056	200	1.12	56C	4.4	42	8.75
117	335	3/4	W6180112-110057	500	1.40	56C	5.4	52	9.25
15:1 Ratio	446	1	W6180112-110058	500	1.05	56C	6.4	56	9.82
	685	11/2	W6210112-110420	700	1.06	56C	8.6	69	10.75
	920	2	W6240184-120060	900	1.17	145TC	10.0	92	11.75
	1403	3	W6260220-131545	1000	1.02	184TC	16.8	156	13.78
	177	1/3	W6130077-101766	200	1.36	S56C	3.1	42	8.25
	269	1/2	W6180113-110056	500	1.78	56C	4.4	49	8.75
88	439	3/4	W6180113-110057	500	1.09	56C	5.4	52	9.25
20:1 Ratio	590	1	W6210113-110058	700	1.26	56C	6.4	62	9.82
	888	11/2	W6240149-110420	900	1.24	56C	8.6	85	10.75
	1202	2	W6260149-112136	1000	1.22	56C	10.0	105	11.75
	247	1/3	W6130079-101766	200	.98	S56C	3.1	42	8.25
58	402	1/2	W6180115-110056	500	1.21	56C	4.4	49	8.75
30:1 Ratio	625	3/4	W6210115-110057	700	1.20	56C	5.4	58	9.25
	842	1	W6240151-110058	900	1.32	56C	6.4	78	9.82
	1255	11/2	W6260187-120017	1000	1.18	145TC	8.6	98	10.75
	325	1/3	W6180116-101766	500	1.48	S56C	3.1	46	8.25
44	492	1/2	W6180116-110056	500	.98	56C	4.4	49	8.75
40:1 Ratio	776	3/4	W6210116-110057	700	.96	56C	5.4	58	9.25
	1037	1	W6240152-110058	900	1.06	56C	6.4	78	9.82
	386	1/3	W6180117-101766	500	1.20	S56C	3.1	46	8.25
35	632	1/2	W6210117-110056	700	1.14	56C	4.4	55	8.75
50:1 Ratio	927	3/4	W6240153-110057	900	1.15	56C	5.4	74	9.25
	1270	1	W6260153-110058	1000	1.11	56C	6.4	91	9.82
29	448	1/3	W6180118-101766	500	.97	S56C	3.1	46	8.25
60:1 Ratio	687	1/2	W6210118-110056	700	.98	56C	4.4	55	8.75
	1064	3/4	W6240154-110057	900	.95	56C	5.4	74	9.25

O List price includes gear reducer and motor. Use discount symbol "G" for all Gear+Motors.

Note: Gear reducer catalog numbers are for left hand output shaft extensions. For right hand output shaft, specify GR1. For double output shaft extensions, consult LEESON for price and availability.

^{*} Service Factor is based on maximum torque rating of reducer. Refer 6050 catalog for Special Application Considerations.

^{▼▼} Overall length of motor LESS its shaft. Add this dimension to reducer dimensions on page 24 for GEAR+MOTOR dimensions.



MOTOR ACCESSORIES

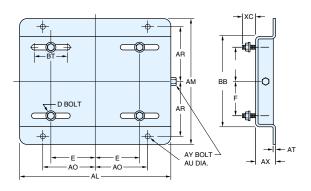
FIELD INSTALLED

ADJUSTABLE MOTOR BASES

Heavy gauge steel mounting bases simplify the installation of motors and make the tensioning, maintenance and replacement of belts a simple efficient task. Fabricated from sheet or steel plate, then primed and finished in a gray rust and corrosion resistant oven-baked finish. Gussets and

reinforcing channels on larger units and continuous seam welding on all units give these bases strength and durability for a long life. A single zinc plated adjusting screw is provided. Motor mounting bolts are included.





Frame	Catalog Number	AL	AM	AX	BB	E	F	AO	AR	AU**	ВТ	AT	XC	D* Bolt	AY Bolt	App. Wgt. (lbs.)
48	175032	10	61/4	11/8	41/4	21/8	13⁄8	31/2	23/4	3/8	3	.078	7/8	5∕16 x 1	3/8 x 4	2
56	175033	105/8	61/2	11/8	41/2	27/16	11/2	313/16	27/8	3/8	3	.078	7/8	5∕16 x 1	3/8 x 4	3
143T	175034	10½	7½	1½	5½	2 ³ / ₄	2	3 ³ / ₄	33/8	3/8	3	.119	13/ ₁₆	5/15 x 1	3/8 x 4	5
145T	175035	10½	8½	1½	6½	2 ³ / ₄	2½	3 ³ / ₄	37/8	3/8	3	.119	13/ ₁₆	5/15 x 1	3/8 x 4	6
182T	175036	12¾	9½	1½	6½	3 ³ / ₄	2 ¹ / ₄	4½	4 ¹ / ₄	1/2	3	.134	1½	3/8 x 13/4	½ x 5	9
184T	175037	12¾	10½	1½	7½	3 ³ / ₄	2 ³ / ₄	4½	4 ³ / ₄	1/2	3	.134	1½	3/8 x 13/4	½ x 5	
213T	175038	15	11	1 ³ / ₄	7½	4 ¹ / ₄	2 ³ / ₄	5½	4 ³ / ₄	1/2	3½	.164	1½	3/8 x 13/4	½ x 5	13
215T	175039	15	12½	1 ³ / ₄	9	4 ¹ / ₄	3 ¹ / ₂	5½	5 ¹ / ₂	1/2	3½	.164	1½	3/8 x 13/4	½ x 5	15

* Motor mounting bolt diameter and length, four supplied with each base. ** Base mounting bolts, four required—not supplied with base.

NOTE: These bases are not suitable for vertical mounting. All dimensions in inches.

TRANSITION BASES

Transition bases compensate for the difference in mounting dimensions and shaft height of a rigid base NEMA T frame to the next higher NEMA U frame. This makes it possible, for example, to replace a 10 HP NEMA 254U frame motor with a 10 HP NEMA 215T frame motor without modifying the basic installation. Made of the same high-quality materials and

construction as the adjustable motor bases above. They are for horizontal mountings, shimming may be needed for direct coupled loads. Thread size listed is for mounting transition base to the "T" frame motor. Dimensions listed are for one piece—two are supplied, one for each side of the motor's foot.



Converts T Frame	To U Frame	Catalog Number	App.Wgt. (lbs.)	Height (Inches)	Width (Inches)	Length (Inches)	Thread
143T/145T	182/184	175091	2	1	2½	7½	5/16-18
182T/184T	213/215	175092	3	³ / ₄	1¾	9½	3/8-16
213T/215T	254U/256U	175093	5	1	2½16	12¾	3/8-16

DRIP-COVER KITS FOR DRIP-PROOF MOTORS

Each kit includes one drip-cover. Designed to protect drip-proof motors from rain, snow and ice when mounted outdoors in a vertical position.



*for use with 213-215T 3450 RPM motors

DRIP-COVER KIT FOR TEFC MOTORS

For use with steel frame motors only.

•	Frame	Catalog Number	App. Wgt. (lbs.)
	213T-215T	175849	12

RODENT SCREEN KITS

Frame	Enclosure	Catalog Number	App. Wgt. (lbs.)
182T-184T*	Open	175872	1.5
213T-215T*	Open	175871	1.5

^{*}Rolled steel frame only.

TERMS AND CONDITIONS



TERMS AND CONDITIONS OF SALES QUOTATIONS ARE MADE AND ORDERS ARE ACCEPTED BY SELLER ONLY TO THESE TERMS AND CONDITIONS:

1. AGREEMENT AND MODIFICATION OF SALES TERMS.

The agreement between LEESON Electric and Buyer ("Sales Contract") is with respect to the sale of goods described on the other side hereof (the "goods"). Any Terms and Conditions contained in any purchase order or other form of communication from LEESON Electric's customers, which are additional to or different from these Terms and Conditions, shall be deemed rejected by LEESON Electric unless expressly accepted in writing by LEESON Electric.

2. ACCEPTANCE OF ORDERS.

Acceptance by LEESON Electric of Buyer's purchase order(s) is expressly conditioned upon Buyer's assent to these Terms and Conditions. Buyer will be deemed to have assented to such Terms and Conditions unless LEESON Electric receives written notice of any objections within 10 days after Buyer's receipt of this form or in all events prior to any delivery or other performance by LEESON Electric of Buyer's order if less than 10 days.

3. QUOTATIONS.

Quotations by LEESON Electric shall be deemed to be offers by LEESON Electric to sell the goods described therein subject to these Terms and Conditions, and acceptance of such offers is expressly limited to acceptance by Buyer of all of these Terms and Conditions within 30 days from the date of the quotation or as specified. Purchase orders submitted by Buyer for the goods quoted by LEESON Electric shall be subject to and will be deemed to constitute acceptance of these Terms and Conditions. All purchase orders will be subject to approval by LEESON Electric.

4. TERMINATION OR MODIFICATION.

The Sales Contract may be modified or terminated only upon LEESON Electric's express written consent, which consent will at all times be conditioned on Buyer's agreement to pay LEESON Electric's modification or termination charge including, but not limited to expenses and costs plus a reasonable profit, except that any goods completed on or before LEESON Electric's acceptance of termination shall be accepted and paid in full by Buyer.

5. PRICES AND TERMS.

Fulfillment of Buyer's order is contingent upon the availability of materials. The price of the goods sold pursuant to the Sales Contract shall be based upon LEESON Electric's prices in effect at the time of shipment and any acceptance of the order will be on the basis of the freight rates in effect at the time of shipment. In the event of an increase or decrease in the applicable freight charges before the material is shipped, such changes in freight charges will be for the account of Buyer. Price advances, discounts, extras and terms and conditions are subject to changes without notice. Unless otherwise provided on the front side hereof, price is F.O.B. LEESON Electric's point of shipment, and terms of payment shall be net 30 days from date of invoice. LEESON Electric may assess finance and service charges of 1-1/2 percent per month (or the highest rate allowed by state law) on invoices not paid within stated payment terms. Open account credit status is offered at the discretion of the LEESON Electric. LEESON Electric may discontinue open account status or change credit limit as warranted, in its opinion, by the financial condition and/or credit history of the Buyer. LEESON Electric may require full or partial payment or payment guarantees in advance of shipment whenever, in its opinion, the financial condition and/or credit history of Buyer so warrants. In addition, LEESON Electric may, at any time, suspend performance of any order or require payment in cash, security or other adequate assurance satisfactory to LEESON Electric when, in LEESON Electric's opinion, the financial condition and/or credit history of Buyer warrants such action.

6. TAXES.

Prices do not include sales, use or other similar federal, state or local taxes. Buyer shall either have a tax-exemption certificate on file with the LEESON Electric or pay to LEESON Electric, in addition to the price of the goods, any and all applicable taxes, which may be invoiced separately at a later date.

7. DESIGN; EXTRA WORK; BUYER'S MATERIAL.

(a) If any order accepted by LEESON Electric contemplates the preparation of special designs by LEESON Electric, Buyer issuing such order will have a responsible representative specifically approve all designs prepared by LEESON Electric. (b) If Buyer requests extra work not included in the quotation or original order, Buyer will pay for the extra work at reasonable rates as determined by LEESON Electric. (c) In the event spoilage/damage occurs on orders where Buyer furnishes any material, LEESON Electric shall not be liable for replacement of or damage to such material.

8. RISK OF LOSS, TITLE, SECURITY INTEREST.

Delivery shall occur, and risk of loss shall pass to Buyer, upon delivery of the material to a carrier at the F.O.B. point of shipment. Transportation shall be at Buyer's sole risk and expense, and any claims for losses or damage in transit shall be against the carrier only. However, LEESON Electric retains title to all products until paid for in full in cash and Buyer agrees to perform all acts necessary to provide a fully perfected security interest in the goods in favor of LEESON Electric. LEESON Electric may, at its option, repossess the same, upon Buyer's default in payment hereunder, and charge Buyer with any deficiency.

9. DELIVERIES AND QUANTITIES.

(a) Delivery dates are not guaranteed but are estimated on the basis of immediate receipt by LEESON Electric of all information to be furnished by Buyer and the absence of delay, direct or indirect, resulting from or contributed to by circumstances beyond LEESON Electric's reasonable control. If the goods are non-catalog goods, LEESON Electric may ship overages or underages to the extent of 10 percent of quantity ordered, and Buyer shall pay for such quantity based upon the unit price of the goods. LEESON Electric shall not be required to maintain closer control of quantity, unless specifically agreed to by LEESON Electric in writing. Quantities of all items may be determined by weight. Any claims for shortage must be within 10 days from the date of receipt of the goods by Buyer, and in every case the weights found in any particular shipment, including tare, must be given and LEESON Electric advised as to the method used by Buyer in computing the count of parts. (b) In the event that Buyer is unable to accept delivery of the goods at time of shipment, LEESON Electric shall invoice Buyer for the full purchase price as if shipment had been made and: (i) if LEESON Electric is able to store such goods in its own facilities, Buyer will pay LEESON Electric the reasonable handling and storage charges for the period of such storage, and (ii) if LEESON Electric is unable to store such goods at its own facility, LEESON Electric reserves the right to arrange handling and storage in a suitable bonded warehouse for the Buyer at Buyer's expense. In cases where handling and storage become necessary, it shall be Buyer's responsibility to notify LEESON Electric when shipment is to be made. LEESON Electric will make necessary arrangements for shipment at Buyer's expense.

10. RETURNED GOODS.

Goods may not be returned. However, if LEESON Electric consents in writing or upon verbal authorization to the return of goods for any reason, Buyer, who also shall assume all risk of loss of such returned goods until actual receipt by LEESON Electric, must prepay transportation charges.

11. INSPECTION, ACCEPTANCE.

Buyer shall inspect the goods immediately upon the receipt thereof. All claims by Buyer (including claims for shortages), except only those provided for under the WARRANTY AND LIMITATIONS OF LIABILITY and PATENTS clauses below, must be asserted in writing by Buyer within a 10 day period or they are waived. If this contract involves partial performances, all such claims must be asserted within a 10-day period for each partial performance. Rejection may be only for defects substantially impairing the value of products or work. Buyer's remedy for lesser defects shall be those provided for under the Warranty and Liability clauses. THERE SHALL BE NO REVOCATION OF ACCEPTANCE. If Buyer wrong-fully rejects, revokes or delays acceptance of items or work tendered under this contract, or fails to make a payment due on or before delivery, or repudiates this contract, LEESON Electric shall, at its option, have a right to recover as damages, either the price as stated herein (upon recovery of the price, the items involved shall become the property of the Buyer) or the profit (including reasonable overhead) which the LEESON Electric would make from performance together with incidental damages and reasonable cost.

12. WARRANTIES AND LIMITATIONS OF LIABILITY.

(a) LEESON Electric warrants to the Buyer that its motors, gearmotors, DC controllers, and AC drives are free from defects in workmanship and materials when operated under normal conditions and in accordance with nameplate characteristic limits. This warranty shall be in effect for a period of 12 months from date of installation, but in no event be in effect for more than 24 months from data of manufacture, with the following exceptions: i) EPACT motors ("G" prefix), which are warranted for a period of 24 months from date of installation but for not more than 30 months from date of manufacture, ii) Wattsaver" Premium Efficiency three phase motors and Speedmaster Inverter-Duty motors are warranted for a period of 36 months from the date of installation but for not more than 42 months from the date of manufacture, & iii) Motor brakes provided as coupler brakes, brake kits, or as part of brakemotors are covered by the manufacturers (Stearns or Dings) warranties.

(b) LEESON Electric's sole obligation under the foregoing warranties is limited to either, at LEESON Electric's option, replacing or repairing defective goods (or defective parts thereof) within the warranty period. LEESON Electric shall not be liable under any circumstances, for consequential or incidental damages, including, but not limited to personal injury or labor costs. This warranty does not cover the cost of removal, installation, or re-testing of the new or repaired goods or parts, or any other direct or incidental expenses incurred in shipping the product to or from LEESON Electric. Replacement goods or parts are warranted for the remainder of the warranty period applicable to the goods originally supplied by LEESON Electric. All claims for allegedly defective goods must be made within 10 days after Buyer learns of such alleged defects. All claims not made in writing and received by LEESON Electric within such 10 day period shall be deemed waived. With prior approval from LEESON Electric, Buyer shall return a sample of the alleged defective part, freight prepaid, for LEESON Electric's inspection, and no other goods shall be returned to LEESON Electric's District Office/Warehouse, nearest factory, or Authorized Service Center without LEESON Electric's written consent. This warranty shall not extend to goods subjected to misuse, abuse, neglect, accident or improper installation or maintenance, incorrect lubrication, incorrect electrical connection, improper power supply, or goods which have been altered or repaired by anyone other than LEESON Electric or its authorized representative:



TERMS AND CONDITIONS

(c) Under no circumstances will LEESON Electric be responsible for any expense in connection with any repairs made by anyone other than LEESON Electric or an Authorized Service Center, unless such repairs have been specifically authorized in writing by the LEESON Electric Service and Warranty Department.

(d) In the case of motors, drives, gears and reducers manufactured or marketed by LEESON Electric, LEESON Electric warrants only that such products, when shipped, shall be capable of delivering the service rating as indicated in LEESON Electric's written documents, including quotations and catalogs or as noted on such products, providing such equipment is properly installed, connected, and maintained, correctly lubricated, operating under normal conditions with competent supervision, and within the load limits and voltage range for which it was sold, and provided further that the equipment is free from critical speed, torsional or other type vibration, no matter how induced;

(e) If any prototype or sample was provided to the Buyer, it was used merely to illustrate the general type and quality of goods and not to warrant that goods shipped would be of that type or quality;

(f) UNLESS AUTHORIZED IN WRITING BY A CORPORATE OFFICER OR VICE PRESIDENT, NO AGENT, EMPLOYEE OR REPRESENTATIVE OF LEESON ELECTRIC HAS ANY AUTHORITY TO BIND LEESON ELECTRIC TO ANY AFFIRMATION, REPRESENTATION OR WARRANTY CONCERNING THE GOODS SOLD UNDER THE SALES CONTRACT AND ANY SUCH AFFIRMATION, REPRESENTATION OR WARRANTY HAS NOT FORMED A PART OF THE BASIS OF THE BARGAIN AND SHALL BE LINENFORCEABLE.

(g) THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY OTHER TYPE, WHETHER EXPRESS OR IMPLIED:

(h) Products manufactured and work not performed by LEESON Electric are warranted only to the extent and in the manner that the same are warranted to LEESON Electric by LEESON Electric's vendors, and then only to the extent that LEESON Electric is reasonably able to enforce such warranty. In enforcing such warranty, it is understood LEESON Electric shall have no obligation to initiate litigation unless Buyer undertakes to pay all costs and expenses therefor, including but not limited to Attorney's fees, and indemnifies LEESON Electric against any liability to LEESON Electric's vendors arising out of such litigation;

(i) THE FOREGOING IS LEESON ELECTRIC'S ONLY OBLIGATION AND BUYER'S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY. BUYER'S FAILURE TO SUBMIT A CLAIM AS PROVIDED ABOVE SHALL SPECIFICALLY WAIVE ALL CLAIMS FOR DAMAGES OR OTHER RELIEF INCLUDING BUT NOT LIMITED TO CLAIMS BASED ON LATENT DEFECTS. IN NO EVENT SHALL BUYER BE ENTITLED TO INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES, NOR SHALL LEESON ELECTRIC'S LIABILITY EXCEED THE PURCHASE PRICE OF

THE GOODS. ANY ACTION ARISING HEREUNDER OR RELATED HERETO MUST BE COMMENCED WITHIN ONE (1) YEAR AFTER THE CAUSE OF ACTION OCCURS OR IT SHALL BE BARRED, NOTWITHSTANDING ANY STATUTORY PERIOD OF LIMITATIONS TO THE CONTRARY; and

(j) In the event of the resale of any of the goods, in whatever form, Buyer will include the following language in a conspicuous place and in a conspicuous manner in a written agreement covering such resale: "THE MANUFACTURER MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE GOODS SOLD HEREUNDER. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE GOODS PURCHASED HEREUNDER WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. IN NO EVENT WILL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL OR OTHER DAMAGES."

13. REMEDIES AND LIMITATIONS OF LIABILITY.

In the event Buyer claims LEESON Electric has breached any of its obligations under the Sales Contract, whether of warranty or otherwise, LEESON Electric may request the return of goods and tender to Buyer, at LEESON Electric's option, a replacement shipment of goods. If LEESON Electric so requests the return of the goods, the goods will be redelivered to LEESON Electric in accordance with LEESON Electric instructions and at Buyer's expense. Except as herein provided, LEESON Electric shall have no further obligation under the Sales Contract. The remedies contained in this paragraph and paragraph 12 hereof shall constitute the sole recourse of Buyer against LEESON Electric for breach of any of LEESON Electric's obligations under the Sales Contract, whether warranty or otherwise.

14. TECHNICAL ADVICE.

Any technical advice furnished or recommendation made by LEESON Electric or any representative of LEESON Electric concerning any use or application of any of the goods is believed to be reliable, but LEESON ELECTRIC MAKES NO WARRANTY, EXPRESSED OR IMPLIED, ON RESULTS TO BE OBTAINED. BUYER ASSUMES ALL RESPONSIBILITY FOR LOSS OR DAMAGE RESULTING FROM THE HANDLING OR USE OF ANY OF THE GOODS.

15. FORCE MAJEURE.

LEESON Electric shall not be liable for failure to perform its obligations under the Sales Contract in whole or in part caused by the occurrence of any contingencies beyond the reasonable control either of LEESON Electric or of suppliers of LEESON Electric. If any such contingency occurs, LEESON Electric may allocate goods and deliveries among LEESON Electric's customers.

16. ASSIGNMENT AND DELEGATION.

No right or interest in the Sales Contract shall be assigned by Buyer without LEESON Electric's prior written consent, and no delegation of any obligation owed, or to the performance of any obligation by Buyer shall be made without LEESON Electric's prior written consent. Any attempt at assignment or delegation shall be wholly void and totally ineffective for all purposes unless made in conformity with this paragraph.

17. PATTERNS AND TOOLING.

Unless otherwise agreed to in writing with Buyer, LEESON Electric shall retain title to and possession of all special tooling, patterns and dies whether paid for by Buyer or not, but such special tooling, patterns and dies that are specifically paid for by Buyer will be held by LEESON Electric exclusively for the manufacture of Buyer's goods for not more than 2 years after the date of Buyer's last order requiring their use. LEESON Electric will exercise reasonable care in handling and storing any tooling, patterns or dies specifically paid for by Buyer, but LEESON Electric shall not be liable for damage or loss thereof.

18. PATENTS. LEESON ELECTRIC MAKES NO REPRESENTATION OR WARRANTY WITH RESPECT TO THE PATENTABILITY OF THE GOODS OR THAT ANY OF THE GOODS WILL BE FREE FROM CLAIMS OF INFRINGEMENT.

Buyer agrees to indemnify and defend LEESON Electric in any such suit, action or proceeding for any claim resulting from actual or alleged infringement of any domestic or foreign letters patent for (i) any feature, construction or design incorporated at Buyer's request in any goods or to adapt such goods to the particular use of Buyer or Buyer's customers or (ii) any additions, changes or adaptations made by Buyer or Buyer's customers after delivery of the goods.

19. CONFIDENTIAL INFORMATION.

All drawings, diagrams, specifications, technical data and other materials furnished by LEESON Electric and identified by LEESON Electric as confidential are and shall remain the exclusive property of LEESON Electric and shall be returned to LEESON Electric upon request. Buyer agrees to treat such information and material as confidential and not to reproduce or disclose such information or materials without LEESON Electric's prior written consent. This paragraph does not apply to any information already known to and readily accessible in the trade or which may become so through no fault of Buyer.

20. CHANGES.

LEESON Electric may, at any time, without notice, make changes (whether in design, material, improvements or otherwise) in any catalog goods, and may discontinue the manufacture of any catalog goods, all in its sole discretion, without incurring any obligations of any kind as a result thereof, whether for failure to fill an order of Buyer or otherwise.

21. CANCELLATION.

The Buyer may not cancel purchase orders without the prior written consent of LEESON Electric. This consent will be conditioned on Buyer's agreement to pay LEESON Electric's cancellation charge. Purchase orders for goods that are substantially complete, as judged by LEESON Electric, may not be cancelled; and will be shipped and invoiced at the price on the order. For goods that are not substantially complete, the cancellation charge shall amount to all costs and expenses incurred by LEESON Electric and arising out of or in connection with Buyer's order, net of recoverability, but in no event less than 10% of the total invoice price of the equipment or more than the total invoice price.

22. INSTALLATION.

Installation of the goods shall be by Buyer unless otherwise specifically stated in the Sales Contract.

23. SEVERABILITY.

If any term or provision contained in the Sales Contract is declared or held invalid by a court of competent jurisdiction, such declaration or holding shall not affect the validity of any other term, clause or provision contained herein.

24. GOVERNING LAW AND LIMITATION.

(a) The formation and performance of the Sales Contract shall be deemed to have been made and governed by the Uniform Commercial Code as adopted in the state of LEESON Electric's principal place of business; (b) Buyer hereby agrees to the jurisdiction of any state or federal court located in the county of LEESON Electric's principal place of business. Buyer waives any objection based on forum non conveniens and any objection to venue of any action instituted hereunder, and consents to the granting of such legal or equitable relief as is deemed appropriate by a court of competent jurisdiction; and (c) LEESON Electric represents that the goods will be produced in compliance with the Fair Labor Standards Act of 1938, as amended.

MOTOR WARNINGS AND CAUTIONS





IMPORTANT INFORMATION PLEASE READ CAREFULLY



This catalog is not intended to provide operational instructions. Appropriate LEESON Electric instructions provided with the motor and precautions attached to the motor should be read carefully prior to installation, operation and/or maintenance of the equipment. Injury to personnel or motor failure may be caused by improper installation, maintenance or operation.

The following AWARNING and CAUTION information is supplied to you for your protection and to provide you with many years of trouble free and safe operation of your LEESON Electric product:



- Disconnect power and lock out driven equipment before working on a motor.
- · Always keep hands and clothing away from moving parts.
- The lifting support on the motor is not to be used to lift the entire machine. Only the motor attached directly to the support may be safely lifted by the support.
- · Install and ground per local and national codes.
- · Discharge all capacitors before servicing a single phase motor.
- Misapplication of a motor in hazardous environment can cause fire or an explosion and result in serious injury. Only the end user, local authority having jurisdiction, and/or insurance underwriter are qualified to identify the appropriate class(es), group(s), division and temperature code LEESON Electric personnel cannot evaluate or recommend what motors may be suitable for use in hazardous environments. If a motor is name plated for hazardous locations, do not operate the motor without all of the grease and drain plugs installed.
- Never attempt to measure the temperature rise of a motor by touch. Temperature rise must be measured by thermometer, resistance, resistance, imbedded detector or thermocouple.
- Motors with automatic reset thermal protectors will automatically restart when the protector temperature drops sufficiently. Do not use
 motors with automatic reset thermal protectors in applications where automatic restart will be hazardous to personnel or equipment.
- Motors with manual reset thermal protectors may start unexpectedly after the protector trips when the surrounding air is at +20° Fahrenheit or lower. If the manual reset protector trips, disconnect motor from its power supply. After the protector cools (five minutes or more), it can be reset and power may be applied to the motor.
- · Connect all protective device leads, marked P1, P2, etc., per instructions supplied with the motor.
- · Operation of a motor at other than its nameplate rating may result in fire, damage to equipment or serious injury to personnel.
- For safety, Buyer or User should provide protective guards over all shaft extensions and any moving apparatus mounted thereon. The User is responsible for checking all applicable safety codes in his area and providing suitable guards. Failure to do so may result in bodily injury and/or damage to equipment.



- · Consult qualified personnel with questions and all electrical repairs must be performed by trained and qualified personnel only.
- · For motors nameplated as "belted duty only", do not operate the motor without belts properly installed.
- Motors and/or driven equipment should not be operated faster than their rated speed.
- For inverter applications, follow the inverter manufacturer's installation guidelines.
- Make sure the motor is properly secured and aligned before operation.

In the event of the resale of any of the goods, in whatever form, Resellers/Buyers will include the following language in a conspicuous place and in a conspicuous manner in a written agreement covering such sale:

The manufacturer makes no warranty or representations, express or implied, by operation of law or otherwise, as to the merchantability or fitness for a particular purpose of the goods sold hereunder. Buyer acknowledges that it alone has determined that the goods purchased hereunder will suitably meet the requirements of their intended use. In no event will the manufacturer be liable for consequential, incidental or other damages. Even if the repair or replacement remedy shall be deemed to have failed of its essential purpose under Section 2-719 of the Uniform Commercial Code, the manufacturer shall have no liability to Buyer for consequential damages.

Resellers/Buyers agree to also include this entire document including the warnings and cautions above in a conspicuous place and in a conspicuous manner in writing to instruct users on the safe usage of the product.

This information should be read together with all other printed information supplied by LEESON Electric.

For more information contact: **LEESON Electric**, Subsidiary of REGAL-BELOIT CORPORATION, 2100 Washington Street, Grafton, WI 53024 Phone: 262-377-8810 or Fax: 262-377-3440



CONDENSED DIMENSIONS

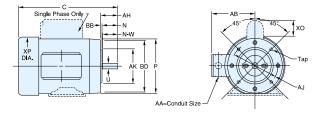
NEMA STEEL FRAME MOTORS

RIGID MOUNT

XP DIA

AA=Conduit Size

The condensed dimensions shown on these pages are for general reference only and are not for construction. The overall length or "C" dimension for each catalog item is included in this catalog. Certified drawings of all ratings are available for construction purposes.



NEMA STEEL FRAME DIMENSIONS (Inches)

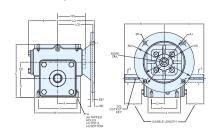
Frame Size 🔺	D	Е	F	Н	N	0	Р	U	N-W	AA	AB	АН	AJ	AK	BA	ВВ	BD	Х0	XP	TAP **	KEY
42	25/8	13/4	27/32	9/32 Slot	11/4	51/16	47/8	3/8	1 1/8	3/8	41/2	1 5/16	33/4	3	21/16	1/8	47/8	15/8	5 ¹ / ₈	1/4-20	3/64 Flat
48	3	2 ¹ /8	1 ³ /8	11/32 Slot	1 9/ ₁₆	513/16	5 ¹⁹ / ₃₂	1/2	11/2	1/2	47/8	1 11/16	33/4	3	21/2	1/8	5	21/4	57/8	1/4-20	3/64 Flat
S56	31/2	27/16	11/2	11/32 Slot	1 15/16	6 ⁵ / ₁₆	5 ¹⁹ / ₃₂	5/8	17/8	1/2	47/8	21/16	5 ⁷ /8	41/2	23/4	1/8	61/2	2 ¹ / ₄	5 ⁷ /8	3/8-16	3/16
56	0 /2	2 /10	1 /2	/32 0101	1 /10	613/16	619/32	70	1 /0	12	55/16	2 / 10	3 /8	7/2	2 /4	70	0 12	2 /4	75/32	/8 10	710
143T 145T	31/2	23/4	2 2 ¹ / ₂	11/32	23/8	6 ¹³ / ₁₆	619/32	7/8	21/4	3/4	5 ⁵ / ₁₆	2 ¹ /8	57/8	41/2	*21/4	1/8	61/2	21/4	75/32	3/8-16	3/16
182T 184T	41/2	33/4	2 ¹ / ₄ 2 ³ / ₄	13/32	27/8	83/4	815/32	11/8	23/4	3/4	67/16	25/8	71/4	81/2	*23/4	1/4	87/8	21/4	97/32	1/2-13	1/4
S213T			23/4		31/2	9 ²⁷ / ₃₂	813/32										8 ⁷ /8		97/32		
213T 215T	51/4	41/4	2 ³ / ₄ 3 ¹ / ₂	13/32	_	105/8	9 ²¹ / ₃₂	13/8	33/8	3/4	719/32	31/8	71/4	81/2	*31/2	1/4	85/8	21/4	10 ¹³ / ₁₆	1/2-13	5/16

NEMA SHAFT AND KEYWAY DIMENSIONS ■ (Inches)

NEMA SHAFT (U)	KEY DIMEN (R)		NEMA SHAFT (U)	KEYV DIMENS (R)			
3/8	21/64	FLAT	1-7/8	1-19/32	1/2		
1/2	29/64	FLAT	2-1/8	1-27/32	1/2		
5/8	33/64	3/16	2-3/8	2-1/64	5/8 5/8		
7/8	49/64	3/16	2-1/2	2-3/16			
1-1/8	63/64	1/4	2-7/8	2-29/64	3/4		
1-3/8	1-13/64	5/16	3-3/8	2-7/8	7/8		
1-5/8	1-13/32	3/8	3-7/8	3-5/16	1		

- S is keyway width. U minus R is keyway depth.
- 143-5TC NEMA C face BA dimension is $2\frac{3}{4}$ ". 182-4TC NEMA C face BA dimension is $3\frac{1}{2}$ ". 213-5TC NEMA C face BA dimension is $4\frac{1}{4}$ ". 326TC and smaller have 4 mounting holes in NEMA C face, 364TC and larger have 8 mounting holes.
- ▲ Blue shading denotes dimensions established by NEMA standard MG1, others are unique to LEESON, and will vary with each manufacturer.

STYLE BMQ



STYLE BMQ DIMENSIONS (Inches)

ASSEMBLIES

REVERSE ALL ARROWS FOR OPPOSITE INPUT SHAFT ROTATION. CONTACT FACTORY FOR OTHER MOUNTINGS OR ASSEMBLY POSITIONS.

Refer to MOD-SQUAD assembly notes on page 140.

C FACE

Series	А	В	С	D	CD	F	G	H Tap Size	Depth	ı	J	К	LQ 56/140	LQ1 180	N	0	F 56/140	Q 180/210	T +0.000 -0.001	Output Key
613	2.75	3.90	4.66	1.72	1.33	2.00	1.00	5/16-18 UNC	.50	2.67	3.25	1.63	3.42	N/A	4.00	1.95	2.78	N/A	0.625	3/16 x 1.50
618	3.50	5.00	5.75	2.06	1.75	2.75	1.38	5/16-18 UNC	.50	3.17	4.18	2.09	3.99	N/A	4.31	1.88	3.35	N/A	0.875	3/16 x 1.50
621	3.63	5.82	6.38	2.28	2.06	2.88	1.44	3/8-16 UNC	.60	3.58	5.00	2.50	4.40	N/A	4.68	2.19	3.76	N/A	1.000	1/4 x 1.75
624	3.88	6.00	6.94	2.50	2.38	2.88	1.44	3/8-16 UNC	.65	3.66	5.00	2.50	4.63	5.21	5.09	2.45	4.00	4.39*	1.125	1/4 x 2.00
626	4.25	7.20	8.00	2.94	2.63	3.38	1.69	3/8-16 UNC	.65	4.31	6.38	3.19	5.23	5.81	5.63	2.81	4.60	4.99*	1.125	1/4 x 2.00
632	5.88	9.00	9.38	3.50	3.25	4.00	2.00	7/16-14 UNC	.66	4.94	7.50	3.75	6.56	7.00	7.06	3.25	5.84	6.09*	1.375	5/16 x 2.44
638	6.38	10.00	10.44	3.88	3.75	4.75	2.38	1/2-13 UNC	.81	5.50	8.50	4.25	7.06	7.50	7.75	3.50	6.47**	6.75	1.625	3/8 x 2.25

- N/A in 213-5TC Frame Size
- N/A in 56C Frame Size







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