

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:

¼" Quick connects (keyed shaft motors are reversible).

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

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 explosion-proof.

DRIP-COVER KITS

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



FOR DRIP-PROOF MOTORS

Frame	Catalog Number	App. Wgt. (lbs.)
48-S56	175003.00	2
48-S56	175298.00 ♦	2
56 143T-145T	175004.00	2

♦ For use with motors having "P" suffix on date code.

KEYED SHAFT • DRIP-PROOF SINGLE PHASE • LESS BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3600	S56C	100204.00	19	115/208-230	Auto.	3.4	9.49
3/4	3600	S56C	100205.00+	21	115/208-230	Auto.	5.1	9.99
1	3600	S56C	100722.00+	24	115/208-230	Auto.	5.7	10.49
1½	3600	56C	110288.00	31	115/208-230	Auto.	9.0	11.34
2	3600	56C	110289.00	37	115/208-230	Auto.	10.5	12.34
3	3600	56C	110280.00☆	49	230	Auto.	12.8	13.55

THREADED SHAFT • DRIP-PROOF SINGLE PHASE • LESS BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3600	S56J	100207.00+	19	115/208-230	Auto.	3.4	10.00
3/4	3600	S56J	100208.00+	21	115/208-230	Auto.	5.1	10.50
1	3600	S56J	100723.00+	23	115/208-230	Auto.	5.7	11.00
1½	3600	56J	110292.00+	31	115/208-230	Auto.	9.0	11.34
2	3600	56J	110293.00+	37	115/208-230	Auto.	10.5	12.34
3	3600	56J	110286.00☆+	51	230	Auto.	12.8	14.15

THREADED SHAFT • TEFC SINGLE PHASE • LESS BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3600	56J	113955.00+	22	115/208-230	Auto.	3.8	11.31
3/4	3600	56J	113956.00+	26	115/208-230	Auto.	5.0	11.81
1	3600	56J	113639.00+	30	115/208-230	Auto.	6.0	12.31
1½	3600	56J	113640.00+	34	115/208-230	Auto.	8.5	12.81
2	3600	56J	113641.00+	41	115/208-230	Auto.	10.0	13.81

THREADED SHAFT • TEFC SINGLE PHASE • WITH BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3600	56J	113637.00+	23	115/208-230	Auto.	3.8	11.31
3/4	3600	56J	113638.00+	26	115/208-230	Auto.	5.0	11.81
1	3600	56J	113957.00+	28	115/208-230	Auto.	6.0	12.31
1½	3600	56J	113958.00+	34	115/208-230	Auto.	8.5	12.81
2	3600	56J	113959.00+	43	115/208-230	Auto.	10.0	13.81

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

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3600	56J	116188.00 A	35	115/208-230	Auto.	3.8	13.96
3/4	3600	56J	116186.00 A	40	115/208-230	Auto.	5.0	14.46
1	3600	56J	116185.00	49	115/208-230	Auto.	6.0	14.96
1½	3600	56J	116183.00 A	52	115/208-230	Auto.	8.5	15.46
2	3600	56J	116181.00	54	115/208-230	Auto.	10.5	16.46

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

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

A Subject to Availability.

SEE FHP SINGLE PHASE JET PUMP MOTORS ON PAGE 127

Specifications are subject to change without notice

JET PUMP MOTORS

General Specifications:

Rugged, three phase jet pump motors for industrial service. NEMA 56 C face. Stator impregnated with heavy varnish system. High temperature copper magnet wire for high overload capacity. Grounding provision inside oversized gasketed conduit box. 380 alloy aluminum endplate with cast bearing seat insert. Neoprene shaft flinger to repel moisture and other contaminants. Mechanical bearing lock, shaft end, controls axial movement. UL and CSA recognized.



Shaft Material:

303 stainless steel, threaded.

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.

Electrical Specifications:

Explosion-proof motors have automatic overload protection. Others have no thermal overload protection.

**THREADED SHAFT • DRIP-PROOF
THREE PHASE • LESS BASE**

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/3	3600	S56J	102197.00	15	208-230/460	1.4	68.0	9.94
1/2	3600	S56J	102198.00	17	208-230/460	1.8	69.0	9.94
3/4	3600	S56J	101637.00	18	208-230/460	2.4	79.0	10.44
1	3600	S56J	101638.00	25	208-230/460	3.0	78.0	11.44
1½	3600	56J	113891.00	28	208-230/460	4.2	81.5	11.34
2	3600	56J	113892.00	33	208-230/460	5.6	82.5	11.84
3	3600	56J	113893.00	36	208-230/460	7.6	84.0	12.34
5	3600	56J	116698.00	45	208-230/460	12.4	85.5	13.88

**THREADED SHAFT • DRIP-PROOF
THREE PHASE • WITH BASE**

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	3600	S56J	102199.00	17	208-230/460	1.8	69.0	9.94
3/4	3600	S56J	101776.00	18	208-230/460	2.4	79.0	10.44
1	3600	S56J	101775.00	26	208-230/460	3.0	78.0	11.44
1½	3600	56J	114203.00	33	208-230/460	4.2	81.5	11.34
2	3600	56J	114202.00	35	208-230/460	5.6	82.5	11.84
3	3600	56HJ	114201.00	35	208-230/460	8.0	84.0	11.84
5	3600	56HJ	116699.00	47	208-230/460	12.4	85.5	13.88

**THREADED SHAFT • TEFC
THREE PHASE • LESS BASE**

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	3600	56J	114931.00	21	208-230/460	2.0	67.0	10.81
3/4	3600	56J	114208.00	22	208-230/460	2.4	75.5	11.31
1	3600	56J	114207.00	25	208-230/460	3.2	77.0	11.31
1½	3600	56J	114206.00	31	208-230/460	4.2	81.5	12.31
2	3600	56J	114205.00	40	208-230/460	5.6	82.5	12.81
3	3600	56J	114204.00	52	208-230/460	7.6	84.0	13.31

**THREADED SHAFT • TEFC
THREE PHASE • WITH BASE**

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
3/4	3600	56J	113028.00	23	208-230/460	2.4	75.5	11.31
1	3600	56J	113029.00	24	208-230/460	3.2	77.0	11.31
1½	3600	56J	113030.00	31	208-230/460	4.2	81.5	12.31
2	3600	56J	113031.00	36	208-230/460	5.6	82.5	12.81
3	3600	56HJ	113032.00	39	208-230/460	7.6	84.0	13.31

**THREADED SHAFT • EXPLOSION PROOF • TEFC/
TENV THREE PHASE • C-FACE LESS BASE**

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	3600	56J	116187.00▲●	33	208-230/460	1.6	82.5	12.87
1	3600	56J	116184.00▲	33	208-230/460	3.2	77.0	13.46
1½	3600	56J	116182.00▲	48	208-230/460	4.2	81.5	14.46
2	3600	56J	11618000▲	50	208-230/460	5.6	82.5	14.96

▲ These motors are satisfactory for operation on 50 Hz power supply at full rated horsepower.
● These motors are totally enclosed, non-ventilated—Others are fan cooled.

WASHGUARD JET PUMP MOTORS

Washdown duty three phase jet pump motors for industrial service. These motors include all of the features of LEESON's White Duck WASHGUARD motors with the addition of a 56J threaded shaft for use on jet pumps. For demanding pump applications in wet, humid, or washdown environments.



**WASHGUARD • JET PUMP • THREADED SHAFT
THREE PHASE • TEFC • C-FACE LESS BASE**

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
3/4	3600	56J	116774.00	23	208-230/460	2.4	75.5	10.81
1	3600	56J	116775.00	35	208-230/460	3.2	77.0	10.81
1½	3600	56J	116776.00	42	208-230/460	4.2	81.5	11.81
2	3600	56J	116777.00	47	208-230/460	5.6	82.5	12.31
3	3600	56J	116778.00	49	208-230/460	7.6	84.0	13.25

**WASHGUARD • JET PUMP • THREADED SHAFT
THREE PHASE • TEFC • C-FACE WITH BASE**

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
3/4	3600	56J	116779.00	24	208-230/460	2.4	75.5	10.81
1	3600	56J	116780.00	36	208-230/460	3.2	77.0	10.81
1½	3600	56J	116781.00	43	208-230/460	4.2	81.5	11.81
2	3600	56J	116782.00	48	208-230/460	5.6	82.5	12.31
3	3600	56J	116783.00	50	208-230/460	7.6	84.0	13.25

All three phase motors, 1 HP and above, are inverter rated.

Specifications are subject to change without notice

POOL AND JET PUMP MOTORS C-FACE, JET PUMP AND SQUARE FLANGE



PERFORMA+ FHP POOL AND JET PUMP MOTORS

General Specifications:

Energy-saving single-phase Permanent Split Capacitor *PERFORMA+* Pool and Jet Pump motors have separate compartment design required for many pool and spa applications. PSC design gives energy-efficient operation with no switches to wear or seize. Special balancing of FHP motors gives super quiet operation. Motors are connected for CW rotation, viewed from the lead end of the motor, and are not reversible. All designs – keyed and threaded – have 304 stainless steel shafts. Double-sealed bearings on both ends of the motor have high temperature grease for long life. Motors have external grounding lug and Class F insulation with Class B rise.

Standards and Approvals:

UL Recognized and CSA Certified.

Design complies with requirements for motor/pump/cord assemblies that must pass the UL 1081 water spray test.



KEYED SHAFT • C FACE LESS BASE SINGLE PHASE • PSC • DRIP-PROOF

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	Service Factor	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3600	56C	MK1052.00	26	115/230	Auto.	1.95	4.9	11.75
3/4	3600	56C	MK1072.00	27	115/230	Auto.	1.65	5.2	11.75
1	3600	56C	MK1102.00	29	115/230	Auto.	1.5	5.1	12.73
1½	3600	56C	MK1152.00	37	230	Auto.	1.4	6.7	13.71
2	3600	56C	MK1202.00	37	230	Auto.	1.15	8.5	13.71



THREADED SHAFT • C FACE LESS BASE SINGLE PHASE • PSC • DRIP-PROOF

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	Service Factor	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3600	56J	MT1052.00	26	115/230	Auto.	1.95	4.9	12.09
3/4	3600	56J	MT1072.00	27	115/230	Auto.	1.65	5.2	12.09
1	3600	56J	MT1102.00	29	115/230	Auto.	1.5	5.1	13.07
1½	3600	56J	MT1152.00	37	230	Auto.	1.4	6.7	14.05
2	3600	56J	MT1202.00	37	230	Auto.	1.15	8.5	14.05



THREADED SHAFT • SQUARE FLANGE LESS BASE SINGLE PHASE • PSC • DRIP-PROOF

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	Service Factor	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3600	56Y	MST1052.00	26	115/230	Auto.	1.95	4.9	11.92
3/4	3600	56Y	MST1072.00	27	115/230	Auto.	1.65	5.2	11.92
1	3600	56Y	MST1102.00	29	115/230	Auto.	1.5	5.1	12.90
1½	3600	56Y	MST1152.00	37	230	Auto.	1.4	6.7	13.89
2	3600	56Y	MST1202.00	37	230	Auto.	1.15	8.5	13.89

Separate Compartment Design

Locates the motor run capacitor, protector and terminal board in a separate compartment on the end of the motor. Protective cover protects these items from water spray as defined by the UL1081 specification and provides for convenient servicing. Complies with requirements of UL1081 standard for motor/pump/cord assemblies used on swimming pool pumps; pump filter combinations, and chlorinators. Stub shaft with flats in accessible for wrenching when attaching pump impeller.

