

# LEESON 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:

¼" 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 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	List Price	Disc. Sym.	App. Wgt. (lbs.)
48-S56	175003	\$43	A	2
48-S56	175298 ♦	43	A	2
56 143T-145T	175004	48	A	2

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

#### KEYED SHAFT • DRIP-PROOF SINGLE PHASE • LESS BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	S56C	100204	\$265	A	19	115/208-230	Auto.	3.4	9.49
3/4	3450	S56C	100205+	349	A	21	115/208-230	Auto.	5.1	9.99
1	3450	S56C	100722+	377	A	24	115/208-230	Auto.	5.7	10.49
1½	3450	56C	110288	495	A	31	115/208-230	Auto.	9.0	11.34
2	3450	56C	110289	638	A	37	115/208-230	Auto.	10.5	12.34
3	3450	56C	110280☆	652	A	49	230	Auto.	12.8	13.55

#### THREADED SHAFT • DRIP-PROOF SINGLE PHASE • LESS BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	S56J	100207+	\$255	A	19	115/208-230	Auto.	3.4	10.00
3/4	3450	S56J	100208+	332	A	21	115/208-230	Auto.	5.1	10.50
1	3450	S56J	100723+	348	A	23	115/208-230	Auto.	5.7	11.00
1½	3450	56J	110292+	484	A	31	115/208-230	Auto.	9.0	11.34
2	3450	56J	110293+	598	A	37	115/208-230	Auto.	10.5	12.34
3	3450	56J	110286☆+	616	A	51	230	Auto.	12.8	14.15

#### THREADED SHAFT • TEFC SINGLE PHASE • LESS BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56J	113955+	\$299	A	22	115/208-230	Auto.	3.8	11.31
3/4	3450	56J	113956+	356	A	26	115/208-230	Auto.	5.0	11.81
1	3450	56J	113639+	434	A	30	115/208-230	Auto.	6.0	12.31
1½	3450	56J	113640+	516	A	34	115/208-230	Auto.	8.5	12.81
2	3450	56J	113641+	611	A	41	115/208-230	Auto.	10.0	13.81

#### THREADED SHAFT • TEFC SINGLE PHASE • WITH BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56J	113637+	\$344	A	23	115/208-230	Auto.	3.8	11.31
3/4	3450	56J	113638+	368	A	26	115/208-230	Auto.	5.0	11.81
1	3450	56J	113957+	445	A	28	115/208-230	Auto.	6.0	12.31
1½	3450	56J	113958+	529	A	34	115/208-230	Auto.	8.5	12.81
2	3450	56J	113959+	624	A	43	115/208-230	Auto.	10.0	13.81

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

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56J	116188	\$612	A	35	115/208-230	Auto.	3.8	13.96
3/4	3450	56J	116186	689	A	40	115/208-230	Auto.	5.0	14.46
1	3450	56J	116185	740	A	49	115/208-230	Auto.	6.0	14.96
1½	3450	56J	116183	948	A	52	115/208-230	Auto.	8.5	15.46
2	3450	56J	116181	1031	A	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.

SEE FHP SINGLE PHASE JET PUMP MOTORS ON PAGE 51

**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 design (UL file No. E57948).



**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.

**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	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
3/4	3450	56J	116774	\$547	A	23	208-230/460	2.4	75.5	10.81
1	3450	56J	116775	636	A	35	208-230/460	3.2	77.0	10.81
1½	3450	56J	116776	676	A	42	208-230/460	4.2	81.5	11.81
2	3450	56J	116777	774	A	47	208-230/460	5.6	82.5	12.31
3	3450	56J	116778	812	A	49	208-230/460	7.6	84.0	13.25

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

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
3/4	3450	56J	116779	\$561	A	24	208-230/460	2.4	75.5	10.81
1	3450	56J	116780	652	A	36	208-230/460	3.2	77.0	10.81
1½	3450	56J	116781	707	A	43	208-230/460	4.2	81.5	11.81
2	3450	56J	116782	787	A	48	208-230/460	5.6	82.5	12.31
3	3450	56J	116783	838	A	50	208-230/460	7.6	84.0	13.25

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.

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

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/3	3450	S56J	102197	\$266	A	15	208-230/460	1.4	68.0	9.94
1/2	3450	S56J	102198	280	A	17	208-230/460	1.8	69.0	9.94
3/4	3450	S56J	101637	336	A	18	208-230/460	2.4	79.0	10.44
1	3450	S56J	101638	373	A	25	208-230/460	3.0	78.0	11.44
1½	3450	56J	113891	447	A	28	208-230/460	4.2	81.5	11.34
2	3450	56J	113892	530	A	33	208-230/460	5.6	82.5	11.84
3	3450	56J	113893	627	A	36	208-230/460	7.6	84.0	12.34
5	3490	56J	116698	688	A	45	208-230/460	12.4	85.5	13.88

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

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	3450	S56J	102199	\$293	A	17	208-230/460	1.8	69.0	9.94
3/4	3450	S56J	101776	336	A	18	208-230/460	2.4	79.0	10.44
1	3450	S56J	101775	376	A	26	208-230/460	3.0	78.0	11.44
1½	3450	56J	114203	457	A	33	208-230/460	4.2	81.5	11.34
2	3450	56J	114202	546	A	35	208-230/460	5.6	82.5	11.84
3	3450	56HJ	114201	644	A	35	208-230/460	8.0	84.0	11.84
5	3490	56HJ	116699	706	A	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	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	3450	56J	114931	\$316	A	21	208-230/460	2.0	67.0	10.81
3/4	3450	56J	114208	349	A	22	208-230/460	2.4	75.5	11.31
1	3450	56J	114207	415	A	25	208-230/460	3.2	77.0	11.31
1½	3450	56J	114206	431	A	31	208-230/460	4.2	81.5	12.31
2	3450	56J	114205	547	A	40	208-230/460	5.6	82.5	12.81
3	3450	56J	114204	592	A	52	208-230/460	7.6	84.0	13.31

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

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
3/4	3450	56J	113028	\$419	A	23	208-230/460	2.4	75.5	11.31
1	3450	56J	113029	428	A	24	208-230/460	3.2	77.0	11.31
1½	3450	56J	113030	442	A	31	208-230/460	4.2	81.5	12.31
2	3450	56J	113031	553	A	36	208-230/460	5.6	82.5	12.81
3	3450	56HJ	113032	603	A	39	208-230/460	7.6	84.0	13.31

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

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	3450	56J	116187▲●	\$756	A	33	208-230/460	1.6	82.5	12.87
1	3450	56J	116184▲	814	A	33	208-230/460	3.2	77.0	13.46
1½	3450	56J	116182▲	834	A	48	208-230/460	4.2	81.5	14.46
2	3450	56J	116180▲	872	A	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.



# SWIMMING POOL PUMP MOTORS

## SINGLE PHASE

### COMMERCIAL DUTY SWIMMING POOL MOTORS



#### General Specifications:

Cast iron NEMA 56 C face mounting face or aluminum as noted. Mechanical bearing lock—shaft-end. Fully enclosed endbell at switch-end. Protected “double contact” starting switch with dual contact switch circuit providing maximum starting dependability. Reliable, field proven, corrosion resistant rotating switch. Stator impregnated with extra heavy varnish system. High temperature copper magnet wire providing extended motor life. “Low voltage” run capabilities. “Super Hush” flow-through ventilation system (exhaust shaft-end). Gaskets supplied under conduit cover and capacitor case giving added environmental protection. 1/2" NPT pipe tap supplied in “built-in” conduit box. Grounding provisions inside terminal panel plus external provision. High overload capacities provided by service factor.

#### Shaft Material:

Keyed shafts are made of carbon steel. Threaded shafts are 303 stainless steel. Shafts are CW rotation, facing lead end.

#### Bearings:

304 Double-sealed ball bearing, shaft-end; 203 Double-shielded ball bearing, switch-end.

#### Terminal Boards:

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

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

Motor components (UL File No. #57948).

Class “B” insulation system (UL File No. E55555).

Thermal protector/winding combination (UL No. E56955)

through 1HP. C.S.A. listed through 1HP (Report No. LR33543).

#### SERVICE FACTORS FOR SWIMMING POOL MOTORS

HP	Service Factor
1/2	1.60
3/4	1.50
1	1.40
1½	1.30
2	1.25
3	1.15

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

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	“C” Dim. (Inches)
1/2	3450	S56C	101524	\$274	A	19	115/208-230	Auto.	3.4	10.05
3/4	3450	S56C	101525	316	A	22	115/208-230	Auto.	5.1	10.55
1	3450	S56C	101526	353	A	25	115/208-230	Auto.	5.7	11.05
1½	3450	56C	113686	453	A	30	115/208-230	Auto.	9.0	11.88

### KEYED SHAFT • CAST IRON C FACE LESS BASE SINGLE PHASE • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	“C” Dim. (Inches)
1/2	3450	56C	110278	\$321	A	24	115/208-230	Auto.	4.2	10.56
3/4	3450	56C	110241	401	A	29	115/208-230	Auto.	5.2	11.15
1	3450	56C	110242	432	A	31	115/208-230	Auto.	6.8	11.15
1½	3450	56C	110243	559	A	36	115/208-230	Auto.	9.0	11.55
2	3450	56C	110279	627	A	40	115/208-230	Auto.	10.5	12.55
3	3450	56C	110280☆	652	A	49	230	Auto.	12.8	13.55

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

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	“C” Dim. (Inches)
1/2	3450	S56J	101527+	\$284	A	20	115/208-230	Auto.	3.4	10.56
3/4	3450	S56J	101528+	328	A	23	115/208-230	Auto.	5.1	11.06
1	3450	S56J	101529+	360	A	24	115/208-230	Auto.	5.7	11.56
1½	3450	56J	113687+	465	A	30	115/208-230	Auto.	9.0	12.40

### THREADED SHAFT • CAST IRON C FACE LESS BASE SINGLE PHASE • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	“C” Dim. (Inches)
1/2	3450	56J	110281+	\$335	A	25	115/208-230	Auto.	4.2	10.55
3/4	3450	56J	110282+	361	A	30	115/208-230	Auto.	5.2	11.65
1	3450	56J	110283+	408	A	31	115/208-230	Auto.	6.8	11.65
1½	3450	56J	110284+	521	A	36	115/208-230	Auto.	9.0	12.15
2	3450	56J	110285+	629	A	41	115/208-230	Auto.	10.5	13.15
3	3450	56J	110286☆+	616	A	51	230	Auto.	12.8	14.15

+ Threaded shaft are fixed rotation—CW from lead end.

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

# 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 component recognized, UL file number E57948

CSA certified for safety, CSA report number LR33543

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	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	Service Factor	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56C	MK1052	\$253	A	26	115/230	Auto.	1.95	4.9	11.75
3/4	3450	56C	MK1072	301	A	27	115/230	Auto.	1.65	5.2	11.75
1	3450	56C	MK1102	335	A	29	115/230	Auto.	1.5	5.1	12.73
1½	3450	56C	MK1152	397	A	37	230	Auto.	1.4	6.7	13.71
2	3450	56C	MK1202	475	A	37	230	Auto.	1.15	8.5	13.71



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

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	Service Factor	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56J	MT1052	\$253	A	26	115/230	Auto.	1.95	4.9	12.09
3/4	3450	56J	MT1072	301	A	27	115/230	Auto.	1.65	5.2	12.09
1	3450	56J	MT1102	335	A	29	115/230	Auto.	1.5	5.1	13.07
1½	3450	56J	MT1152	397	A	37	230	Auto.	1.4	6.7	14.05
2	3450	56J	MT1202	475	A	37	230	Auto.	1.15	8.5	14.05



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

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	Service Factor	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56Y	MST1052	\$253	A	26	115/230	Auto.	1.95	4.9	11.92
3/4	3450	56Y	MST1072	301	A	27	115/230	Auto.	1.65	5.2	11.92
1	3450	56Y	MST1102	335	A	29	115/230	Auto.	1.5	5.1	12.90
1½	3450	56Y	MST1152	397	A	37	230	Auto.	1.4	6.7	13.89
2	3450	56Y	MST1202	475	A	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.



**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.

All 180 and 210 frame Rolled Steel motors have Class F Insulation.

**SINGLE PHASE • DRIP-PROOF • RIGID BASE**

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over load Prot.	F.L. Amps 230V	"C" Dim. (Inches)	Drip Cover Kit Ref.
5	3450	184JP	131881	\$1131	B	92	230	None	22.0	19.38	...
7½	3450	213JP	140646	1343	B	140	230	None	37.0	14.17	C
10	3450	215JP	140647	1813	B	157	230	None	47.0	15.67	C

**THREE PHASE • DRIP-PROOF • RIGID BASE**

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	% F.L. Eff.	F.L. Amps 230V	"C" Dim. (Inches)	Drip Cover Kit Ref.
1½	1725	145JP	121846	\$375	B	35	208-230/460	80.0	4.8	16.18	A
2	1725	145JP	121847	391	B	39	208-230/460	81.5	6.2	17.18	A
3	3450	145JP	121849	492	B	37	208-230/460	84.0	8.9	16.68	A
	1725	182JP	131882*	512	B	52	208-230/460	80.0	10.0	16.88	E
5	3450	182JP	131884	591	B	55	208-230/460	82.5	13.2	17.88	E
	1725	182JP	131883	587	B	64	208-230/460	84.0	14.2	17.38	E
7½	3450	184JP	131885	708	B	78	208-230/460	84.0	18.4	18.88	E
	1760	213JP	140667	966	B	96	208-230/460	88.5	20.0	20.76	D
10	3450	213JP	140655	910	B	136	208-230/460	85.5	27.6	22.18	C
	1760	215JP	140668	1104	B	125	208-230/460	89.5	28.0	21.76	D
15	3450	215JP	140656	1125	B	117	208-230/460	86.5	42.0	23.68	C
	1760	254JP	801051	1365	B	155	208-230/460	87.5	43.0	25.29	...
20	3500	254JP	801056	1418	B	159	208-230/460	88.5	52.6	25.29	...
	1760	256JP	801052	1649	B	210	208-230/460	88.5	56.4	27.04	...
25	3525	256JP	801057	1671	B	166	208-230/460	89.5	66.0	27.04	...
	1760	284JP	801053	2218	C	306	230/460	87.5	66.0	27.18	...
30	3525	284JP	801058	2226	C	315	230/460	88.5	73.0	27.18	...
	1760	286JP	801054	2302	C	320	230/460	89.5	79.0	28.68	...
40	3550	286JP	801059	2548	C	360	230/460	88.5	100.0	28.68	...
	1760	324JP	801055	2929	C	491	230/460	93.0	97.0	29.12	...
50	3550	324JP	801060	3259	C	450	230/460	89.5	124.0	29.12	...

\* F1 mounting only.

**DRIP COVER KITS FOR JP PUMP MOTORS**

Kit Ref.	Frame	Catalog Number	Enclosure	List Price
A	56-145JP	175932	ODP or TEFC	\$26
B	182JP-184JP	175933	ODP	30
C	213JP-215JP	175305	ODP	86
D	213JP-215JP	175846	ODP	86
E	182JP-184JP	175614	ODP	61

**QUICK REFERENCE**

JM PUMP MOTORS ..... Page 53

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All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

**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 letter designations in the table on page 48 for the correct kit.

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. **All 180 and 210 frame Rolled Steel motors have Class F Insulation.**

**SINGLE PHASE • DRIP-PROOF • RIGID BASE**

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	"C" Dim. (Inches)	Drip Cover Kit Ref.
1	1740	143JM	120996☆	\$652	B	42	115/208-230	None	6.4	13.91	A
1½	1740	145JM	120994☆	657	B	45	115/208-230	None	8.6	14.91	A
2	3450	145JM	121190☆	673	B	47	115/208-230	None	10.5	14.91	A
	1740	145JM	120995☆	659	B	45	115/208-230	None	10.5	15.41	A
	1760	182JM	132073	688	B	70	115/208-230	None	12.4	13.19	C
3	3450	182JM	131640☆	796	B	80	115/208-230	None	15.2	16.32	C
	1760	182JM	131604	915	B	73	230	None	16.8	15.82	C
5	3450	184JM	131641☆	1131	B	95	115/208-230	None	24.0	17.32	C
	1760	184JM	131605☆	1300	B	82	230	None	21.0	16.32	C
7½	3450	213JM	140642☆	1609	B	140	230	None	37.0	14.17	E
	1760	215JM	140665☆	1715	B	141	230	None	40.5	18.38	E
10	3450	215JM	140644☆	1813	B	144	230	None	47.0	18.38	E
	1760	215JM	140666☆	2122	B	144	230	None	43.0	19.88	E

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

**THREE PHASE • DRIP-PROOF • RIGID BASE**

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)	Drip Cover Kit Ref.
1	1740	143JM	121850	\$383	B	29	208-230/460	3.6	77.0	13.12	B
1½	1740	145JM	121851	414	B	32	208-230/460	4.8	80.0	13.12	B
2	3450	145JM	121853	479	B	30	208-230/460	6.2	80.0	13.12	B
	1740	145JM	121852	430	B	37	208-230/460	6.2	81.5	14.12	B
3	3450	145JM	121854	530	B	35	208-230/460	8.4	84.0	13.62	B
	1760	182JM	131562	568	B	55	208-230/460	8.8	84.0	13.82	J
5	3450	182JM	131574	699	B	62	208-230/460	12.6	85.5	14.82	J
	1760	184JM	131563	655	B	65	208-230/460	13.4	86.0	14.82	J
7½	3450	184JM	131576	790	B	83	208-230/460	18.0	86.5	15.82	J
	1760	213JM	140618	966	B	140	208-230/460	20.0	88.5	16.88	F
10	3450	S213JM	131577	1018	B	96	208-230/460	25.0	82.5	16.82	C
	1760	215JM	140619	1104	B	181	208-230/460	28.0	89.5	17.88	F
15	3450	215JM	151380	1302	C	178	208-230/460	36.0	86.8	19.84	H
	1740	254JM	151361	1488	C	254	208-230/460	39.0	90.0	22.87	I
20	3450	254JM	151381	1503	C	276	208-230/460	48.0	90.0	22.87	I
	1740	256JM	151362	1748	C	312	208-230/460	50.0	91.0	24.53	I
25	3450	256JM	151382	1771	C	318	208-230/460	62.0	89.3	24.53	I
	1740	284JM	801028	2195	C	303	230/460	66.0	87.5	24.31	...
30	3450	284JM	801040	2220	C	325	230/460	73.0	88.5	24.31	...
	1740	286JM	801029	2302	C	350	230/460	79.0	89.5	25.81	...
40	3450	286JM	801041	2548	C	337	230/460	100.0	88.5	25.81	...
	1740	324JM	801030	3007	C	386	230/460	106.0	89.5	26.25	...
50	3450	324JM	801042	3463	C	433	230/460	124.0	89.5	29.12	...

**DRIP COVER KITS FOR JM PUMP MOTORS**

Kit Ref.	Frame	Catalog Number	Enclosure	List Price
A	143-145JM	175004	ODP	\$ 48
B	143-145JM	175932	ODP or TEFC	26
C	182-184JM	175933	ODP	30
D	182-184JM	175695	TEFC	145
E	213-215JM	175305	ODP	86
F	213-215JM	175846	ODP	86
G	213-215JM	175849	TEFC	86
H	213-215JM	175962	ODP	86
I	254-256JM	175963	ODP	109
J	182-184JM	175614	ODP	61

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.

SHADED FRAME INDICATES CAST IRON CONSTRUCTION



# JM PUMP MOTORS

## THREE PHASE

### 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:**

Totally enclosed fan cooled construction for maximum life in dirty or severe environments. 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 letter designations in the table for the correct kit. 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. **All 180 and 210 frame Rolled Steel motors have Class F Insulation.**

See pages 48 & 122 for Drip Cover Kits.

### THREE PHASE • TEFC • RIGID BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)	Drip Cover Kit Ref.
1	1740	143JM	121855	\$426	B	30	208-230/460	3.6	77.0	14.50	B
1½	3450	143JM	121858	429	B	31	208-230/460	4.6	80.0	14.50	B
	1740	145JM	121856	465	B	35	208-230/460	4.8	80.0	14.50	B
2	3450	145JM	121859	527	B	33	208-230/460	6.0	80.0	14.50	B
	1740	145JM	121857	463	B	43	208-230/460	5.8	82.5	16.00	B
3	3450	145JM	121860	558	B	42	208-230/460	7.6	84.0	16.00	B
	1760	182JM	131579	567	B	67	230/460	8.8	84.0	15.59	D
5	3450	184JM	131580	758	B	72	208-230/460	12.4	85.5	15.59	D
	1760	184JM	131581	737	B	89	230/460	13.4	86.0	15.59	D
7½	3450	184JM	131582	840	B	96	208-230/460	18.4	86.5	16.59	D
	3450	S213JM	132027	928	B	112	208-230/460	16.8	88.5	21.96	D
	1760	215JM	140622	979	B	117	208-230/460	20.4	89.5	18.84	G
10	3450	S213JM	131583	1123	B	100	208-230/460	26.2	82.5	18.59	D
	1760	215JM	140623	1209	B	136	208-230/460	26.0	89.5	19.84	G
15	3450	215JM	140764	1591	B	130	208-230/460	34.0	90.2	24.41	...
	3450	254JM	151567	1857	C	245	208-230/460	35.0	90.2	23.80	...
	1760	254JM	151568	1806	C	277	208-230/460	36.6	91.0	23.80	...
20	3450	254JM	151569	2026	C	285	208-230/460	46.2	90.2	23.80	...
	1760	254JM	151570	2191	C	321	208-230/460	48.2	91.0	25.50	...
25	3450	256JM	151417	2509	C	307	208-230/460	56.4	91.0	27.00	I
	1740	284JM	151418	2466	C	370	208-230/460	58.8	92.4	27.17	...
30	3450	284JM	151420	2976	C	375	208-230/460	69.2	91.0	27.17	...
	1740	286JM	151422	2928	C	428	208-230/460	69.8	92.4	28.74	...
40	3450	286JM	151424	3710	C	400	208-230/460	93.0	91.7	28.74	...
	1740	324JM	151426	3592	C	258	208-230/460	95.2	93.0	31.33	...

### WASHGUARD JM PUMP MOTORS

**General Specifications:**

Standard NEMA JM pump motor design with the addition of LEESON's trusted WASHGUARD, design. Designed for service in washdown-duty environments where moisture exclusion and corrosion resistance is required for long service life.



**Mechanical Specifications:**

Refer to the detail of mechanical features as shown in the WASHGUARD, section of this catalog.

**Electrical Features:**

All ratings are TEFC design with class F insulation, and 1.15 Service Factor. UL and CSA recognized designs with IRIS™ insulation on all ratings. **All 180 and 210 frame Rolled Steel motors have Class F Insulation.**

### WASHGUARD THREE PHASE • TEFC • JM PUMP

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1	1725	143JM	121579	\$891	B	37	208-230/460	3.1	82.5	15.75
1½	3450	143JM	121580	962	B	46	208-230/460	4.0	82.5	15.75
	1725	145JM	121581	987	B	53	208-230/460	4.4	84.0	15.75
2	3450	145JM	121582	1086	B	47	208-230/460	5.2	84.0	15.75
	1725	145JM	121583	1018	B	49	208-230/460	5.6	84.0	16.25
3	3450	145JM	121584	1166	B	45	208-230/460	7.6	85.5	16.25
	1760	182JM	131967	1295	B	79	208-230/460	8.2	87.5	16.13
5	3450	184JM	131968	1545	B	78	208-230/460	12.0	87.5	16.13
	1760	184JM	131969	1402	B	81	208-230/460	13.0	87.5	16.63
7½	3450	184JM	131970	1694	B	110	208-230/460	16.8	88.5	17.63
	1740	213JM	140733	1890	B	133	208-230/460	20.4	89.5	19.00
10	3450	215JM	140734	2328	B	135	208-230/460	24.0	89.5	21.70
	1740	215JM	140735	2200	B	142	208-230/460	26.0	89.5	20.00
15	3450	215JM	140736	2662	B	150	208-230/460	36.0	90.2	21.70

Stainless JM pump motors on page 37.

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.