



# 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 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	Disc. Sym.	App. Wgt. (lbs.)
48-S56	175003	A	2
48-S56	175298♦	A	2
56 143T-145T	175004	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	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	S56C	100204	A	19	115/208-230	Auto.	3.4	9.49
3/4	3450	S56C	100205+	A	21	115/208-230	Auto.	5.1	9.99
1	3450	S56C	100722+	A	24	115/208-230	Auto.	5.7	10.49
1½	3450	56C	110288	A	31	115/208-230	Auto.	9.0	11.34
2	3450	56C	110289	A	37	115/208-230	Auto.	10.5	12.34
3	3450	56C	110280☆	A	49	230	Auto.	12.8	13.55

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

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

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

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56J	113955+	A	22	115/208-230	Auto.	3.8	11.31
3/4	3450	56J	113956+	A	26	115/208-230	Auto.	5.0	11.81
1	3450	56J	113639+	A	30	115/208-230	Auto.	6.0	12.31
1½	3450	56J	113640+	A	34	115/208-230	Auto.	8.5	12.81
2	3450	56J	113641+	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	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56J	113637+	A	23	115/208-230	Auto.	3.8	11.31
3/4	3450	56J	113638+	A	26	115/208-230	Auto.	5.0	11.81
1	3450	56J	113957+	A	28	115/208-230	Auto.	6.0	12.31
1½	3450	56J	113958+	A	34	115/208-230	Auto.	8.5	12.81
2	3450	56J	113959+	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	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56J	116188	A	35	115/208-230	Auto.	3.8	13.96
3/4	3450	56J	116186	A	40	115/208-230	Auto.	5.0	14.46
1	3450	56J	116185	A	49	115/208-230	Auto.	6.0	14.96
1½	3450	56J	116183	A	52	115/208-230	Auto.	8.5	15.46
2	3450	56J	116181	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.



**JP PUMP MOTORS**  
**SINGLE & THREE PHASE**

**JP PUMP MOTORS**



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

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

**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.**

**QUICK REFERENCE**

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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	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	"C" Dim. (Inches)	Drip Cover Kit Ref.
<b>1</b>	1740	143JM	<b>120996</b> ☆	B	42	115/208-230	None	6.4	13.91	A
<b>1½</b>	1740	145JM	<b>120994</b> ☆	B	45	115/208-230	None	8.6	14.91	A
<b>2</b>	3450	145JM	<b>121190</b> ☆	B	47	115/208-230	None	10.5	14.91	A
	1740	145JM	<b>120995</b> ☆	B	45	115/208-230	None	10.5	15.41	A
<b>3</b>	1760	182JM	<b>132073</b>	B	70	115/208-230	None	12.4	13.19	C
	3450	182JM	<b>131640</b> ☆	B	80	115/208-230	None	15.2	16.32	C
<b>5</b>	1760	182JM	<b>131604</b>	B	73	230	None	16.8	15.82	C
	3450	184JM	<b>131641</b> ☆	B	95	115/208-230	None	24.0	17.32	C
<b>7½</b>	1760	184JM	<b>131605</b> ☆	B	82	230	None	21.0	16.32	C
	3450	213JM	<b>140642</b> ☆	B	140	230	None	37.0	14.17	E
<b>10</b>	1760	215JM	<b>140665</b> ☆	B	141	230	None	40.5	18.38	E
	3450	215JM	<b>140644</b> ☆	B	144	230	None	47.0	18.38	E
	1760	215JM	<b>140666</b> ☆	B	144	230	None	43.0	19.88	E

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

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

SHADED FRAME INDICATES CAST IRON CONSTRUCTION