

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:

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
1 1/2	1.30	1.00
2	1.25	1.00
3	1.15	—

* Applies to general purpose motors only, not explosion-proof.

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	\$185	A	19	115/208-230	Auto.	3.4	9.49
3/4	3450	S56C	100205+	242	A	21	115/208-230	Auto.	5.1	9.99
1	3450	S56C	100722+	261	A	24	115/208-230	Auto.	5.7	10.49
1 1/2	3450	56C	110288	343	A	31	115/208-230	Auto.	9.0	11.38
2	3450	56C	110289	443	A	37	115/208-230	Auto.	10.5	12.38
3	3450	56C	110280☆	452	A	49	230	Auto.	13.6	13.69

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+	\$176	A	19	115/208-230	Auto.	3.4	10.00
3/4	3450	S56J	100208+	231	A	21	115/208-230	Auto.	5.1	10.50
1	3450	S56J	100723+	241	A	23	115/208-230	Auto.	5.7	11.00
1 1/2	3450	56J	110292+	336	A	31	115/208-230	Auto.	9.0	11.88
2	3450	56J	110293+	414	A	37	115/208-230	Auto.	10.5	12.38
3	3450	56J	110286☆+	427	A	51	230	Auto.	13.6	13.68

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+	\$208	A	22	115/208-230	Auto.	3.6	11.31
3/4	3450	56J	113956+	247	A	26	115/208-230	Auto.	5.0	11.81
1	3450	56J	113639+	302	A	30	115/208-230	Auto.	6.0	12.31
1 1/2	3450	56J	113640+	359	A	34	115/208-230	Auto.	8.5	12.81
2	3450	56J	113641+	425	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+	\$240	A	23	115/208-230	Auto.	3.6	11.31
3/4	3450	56J	113638+	256	A	26	115/208-230	Auto.	5.0	11.81
1	3450	56J	113957+	309	A	28	115/208-230	Auto.	6.0	12.31
1 1/2	3450	56J	113958+	367	A	34	115/208-230	Auto.	8.5	12.81
2	3450	56J	113959+	433	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	\$403	A	35	115/208-230	Auto.	3.6	13.96
3/4	3450	56J	116186	452	A	40	115/208-230	Auto.	5.0	14.46
1	3450	56J	116185	485	A	49	115/208-230	Auto.	6.0	14.96
1 1/2	3450	56J	116183	622	A	52	115/208-230	Auto.	8.5	15.46
2	3450	56J	116181	677	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 43

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.

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	\$26	A	2
48-S56	175298 ◆	26	A	2
56 143T-145T	175004	29	A	2

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

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	\$186	A	15	208-230/460	1.4	68.0	9.94
1/2	3450	S56J	102198	195	A	17	208-230/460	1.8	69.0	9.94
3/4	3450	S56J	101637	233	A	18	208-230/460	2.4	79.0	10.44
1	3450	S56J	101638	259	A	25	208-230/460	3.0	78.0	11.44
1½	3450	56J	113891	310	A	28	208-230/460	4.2	82.1	11.38
2	3450	56J	113892	368	A	33	208-230/460	5.6	82.9	11.88
3	3450	56J	113893	436	A	33	208-230/460	8.0	80.0	12.88

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	\$204	A	17	208-230/460	1.8	69.0	9.94
3/4	3450	S56J	101776	233	A	18	208-230/460	2.4	79.0	10.44
1	3450	S56J	101775	260	A	26	208-230/460	3.0	78.0	11.44
1½	3450	56J	114203	318	A	33	208-230/460	4.2	82.1	11.38
2	3450	56J	114202	378	A	35	208-230/460	5.6	82.9	11.88
3	3450	56HJ	114201	448	A	35	208-230/460	8.0	80.0	12.88

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	\$220	A	21	208-230/460	2.0	67.0	10.81
3/4	3450	56J	114208	242	A	22	208-230/460	2.4	72.0	11.31
1	3450	56J	114207	288	A	25	208-230/460	3.2	77.1	11.31
1½	3450	56J	114206	299	A	31	208-230/460	4.2	80.3	12.31
2	3450	56J	114205	379	A	40	208-230/460	5.6	78.8	12.81
3	3450	56J	114204	412	A	52	208-230/460	8.0	80.0	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	\$292	A	23	208-230/460	2.4	72.0	11.31
1	3450	56J	113029	296	A	24	208-230/460	3.2	77.1	11.31
1½	3450	56J	113030	306	A	31	208-230/460	4.2	80.3	12.31
2	3450	56J	113031	385	A	36	208-230/460	5.6	78.8	12.81
3	3450	56HJ	113032	419	A	39	208-230/460	8.0	80.0	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 ▲●	\$496	A	33	208-230/460	1.5	76.0	12.87
1	3450	56J	116184 ▲	535	A	33	208-230/460	3.6	77.1	13.46
1½	3450	56J	116182 ▲	547	A	48	208-230/460	4.6	80.3	14.46
2	3450	56J	116180 ▲	573	A	50	208-230/460	6.2	78.8	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.

LEESON® 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	\$181	A	19	115/208-230	Auto.	3.4	10.05
3/4	3450	S56C	101525	210	A	22	115/208-230	Auto.	5.1	10.55
1	3450	S56C	101526	233	A	25	115/208-230	Auto.	5.7	11.05
1½	3450	56C	113686	300	A	30	115/208-230	Auto.	9.0	12.19

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	\$212	A	24	115/208-230	Auto.	4.2	10.69
3/4	3450	56C	110241	266	A	29	115/208-230	Auto.	5.2	11.19
1	3450	56C	110242	286	A	31	115/208-230	Auto.	7.1	11.19
1½	3450	56C	110243	370	A	36	115/208-230	Auto.	9.0	11.69
2	3450	56C	110279	415	A	40	115/208-230	Auto.	10.5	12.69
3	3450	56C	110280☆	452	A	49	230	Auto.	13.6	13.69

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+	\$188	A	20	115/208-230	Auto.	3.4	10.56
3/4	3450	S56J	101528+	216	A	23	115/208-230	Auto.	5.1	11.06
1	3450	S56J	101529+	238	A	24	115/208-230	Auto.	5.7	11.56
1½	3450	56J	113687+	307	A	30	115/208-230	Auto.	9.0	12.19

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+	\$216	A	25	115/208-230	Auto.	4.2	11.19
3/4	3450	56J	110282+	239	A	30	115/208-230	Auto.	5.2	11.69
1	3450	56J	110283+	269	A	31	115/208-230	Auto.	7.1	11.69
1½	3450	56J	110284+	344	A	36	115/208-230	Auto.	9.0	12.19
2	3450	56J	110285+	417	A	41	115/208-230	Auto.	10.5	13.19
3	3450	56J	110286☆+	427	A	51	230	Auto.	13.6	14.19

+ 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 ROUND FLANGE AND SQUARE FLANGE



PERFORMA + FHP POOL AND JET PUMP MOTORS

FEATURES:

- PSC design - no internal switches
- Non-reversible
- 50°C ambient
- Rotation CCW facing shaft end
- Automatic thermal protector
- Double sealed precision ball bearings
- 304 stainless shaft, all models
- External grounding lug
- Class F insulation with Class B temperature rise
- Separate compartment "1081" design
- Complies with UL1081 water spray test
- UL & CSA recognized

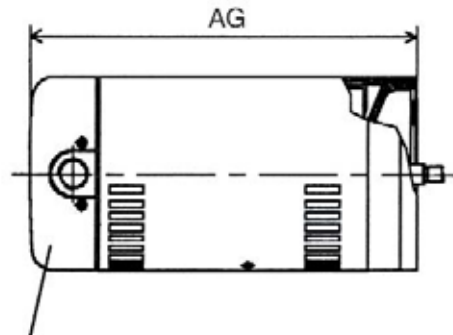


ROUND FLANGE • OPEN DRIP PROOF • NEMA 56C OR 56J KEYED OR THREADED SHAFT

HP	RPM	Volts	Amps	S.F.	Frame	Catalogue Number	List Price	Disc Sym.	Shaft	Approx. "AG"	Wgt. (lbs.)
1/2	3450	115/230	9.2/4.6	1.95	56C	MK1052	\$171	A	Keyed	9.7	26
	3450	115/230	9.2/4.6	1.95	56J	MT1052	171	A	Threaded	9.7	26
3/4	3450	115/230	10.6/5.3	1.65	56C	MK1072	203	A	Keyed	9.7	27
	3450	115/230	10.6/5.3	1.65	56J	MT1072	203	A	Threaded	9.7	27
1	3450	115/230	11.5/5.8	1.5	56C	MK1102	225	A	Keyed	10.7	29
	3450	115/230	11.5/5.8	1.5	56J	MT1102	225	A	Threaded	10.7	29
1 1/2	3450	230	7.6	1.4	56C	MK1152	268	A	Keyed	11.7	37
	3450	230	7.6	1.4	56J	MT1152	268	A	Threaded	11.7	37
2	3450	230	10.3	1.15	56C	MK1202	321	A	Keyed	11.7	37
	3450	230	10.3	1.15	56J	MT1202	321	A	Threaded	11.7	37

SQUARE FLANGE • OPEN DRIP PROOF • NEMA 56J THREADED SHAFT

HP	RPM	Volts	Amps	S.F.	Frame	Catalogue Number	List Price	Disc Sym.	Shaft	Approx. "AG"	Wgt. (lbs.)
1/2	3450	115/230	9.2/4.6	1.95	56Y	MST1052	\$171	A	Threaded	9.7	26
3/4	3450	115/230	10.6/5.3	1.65	56Y	MST1072	203	A	Threaded	9.7	27
	3450	115/230	11.5/5.8	1.5	56Y	MST1102	225	A	Threaded	10.7	29
1 1/2	3450	230	7.6	1.4	56Y	MST1152	268	A	Threaded	11.7	37
2	3450	230	10.3	1.15	56Y	MST1202	321	A	Threaded	11.7	37



Easy access to capacitor, thermal protector, and wiring in separate watertight compartment.

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	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	\$730	B	92	230	None	22.0	19.38	...
7½	3450	213JP	140646	867	B	140	230	None	37.0	14.17	C
10	3450	215JP	140647	1172	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	\$242	B	35	208-230/460	80.0	4.8	16.18	A
2	1725	145JP	121847	252	B	39	208-230/460	81.5	6.2	17.18	A
3	3450	145JP	121849	318	B	37	208-230/460	84.0	8.9	16.68	A
	1725	182JP	131882†*	330	B	52	208-230/460	80.0	10.0	16.88	...
5	3450	182JP	131884	381	B	55	208-230/460	82.5	13.2	17.88	...
	1725	182JP	131883	379	B	64	208-230/460	84.0	14.2	17.38	...
7½	3450	184JP	131885	458	B	78	208-230/460	84.0	18.4	18.88	...
	1760	213JP	140667	624	B	96	208-230/460	88.5	20.0	20.76	D
10	3450	213JP	140655	588	B	136	208-230/460	85.5	27.6	22.18	C
	1760	215JP	140668	714	B	125	208-230/460	89.5	28.0	21.76	D
15	3450	215JP	140656	728	B	117	208-230/460	86.5	42.0	23.68	C
	1760	254JP	801051	883	B	155	208-230/460	87.5	43.0	25.29	...
20	3500	254JP	801056	918	B	159	208-230/460	88.5	52.6	25.29	...
	1760	256JP	801052	1066	B	210	208-230/460	88.5	56.4	27.04	...
25	3525	256JP	801057	1080	B	166	208-230/460	89.5	66.0	27.04	...
	1760	284JP	801053	1433	C	306	230/460	87.5	66.0	27.18	...
30	3525	284JP	801058	1440	C	315	230/460	88.5	73.0	27.18	...
	1760	286JP	801054	1488	C	320	230/460	89.5	79.0	28.68	...
40	3550	286JP	801059	1647	C	360	230/460	88.5	100.0	28.68	...
	1760	324JP	801055	1895	C	491	230/460	93.0	97.0	29.12	...
50	3550	324JP	801060	2108	C	450	230/460	89.5	124.0	29.12	...

† Class F insulated.

* 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	\$16
B	182JP-184JP	175933	ODP	18
C	213JP-215JP	175305	ODP	51
D	213JP-215JP	175846	ODP	51

QUICK REFERENCE

JM PUMP MOTORS.....	Page 45
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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 46 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.

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	\$421	B	42	115/208-230	None	6.4	14.41	A
1½	1740	145JM	120994	425	B	45	115/208-230	None	8.6	15.41	A
2	3450	145JM	121190	435	B	47	115/208-230	None	10.5	16.41	A
	1740	145JM	120995	427	B	45	115/208-230	None	10.5	15.41	A
3	3450	182JM	131640	516	B	80	115/208-230	None	15.2	16.32	C
	1760	182JM	131604	591	B	73	230	None	16.8	15.82	C
5	3450	184JM	131641	730	B	95	115/208-230	None	24.0	17.32	C
	1760	184JM	131605	841	B	82	230	None	21.0	16.32	C
7½	3450	213JM	140642	1041	B	140	230	None	37.0	14.17	E
	1760	215JM	140665	1109	B	141	230	None	40.5	18.38	E
10	3450	215JM	140644	1172	B	144	230	None	47.0	18.38	E
	1760	215JM	140666	1372	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	\$247	B	29	208-230/460	3.5	77.0	13.12	B
1½	1740	145JM	121851	267	B	32	208-230/460	4.8	80.0	13.12	B
2	3450	145JM	121853	309	B	30	208-230/460	6.4	80.0	13.12	B
	1740	145JM	121852	278	B	37	208-230/460	6.2	81.5	14.12	B
3	3450	145JM	121854	342	B	35	208-230/460	8.9	84.0	13.62	B
	1760	182JM	131562	367	B	66	208-230/460	8.8	84.0	13.82	...
5	3450	182JM	131574	452	B	84	208-230/460	12.6	85.5	14.82	...
	1760	184JM	131563	423	B	88	208-230/460	13.4	86.0	14.82	...
7½	3450	184JM	131576	511	B	92	208-230/460	18.0	86.5	15.82	...
	1760	213JM	140618	624	B	140	208-230/460	20.0	88.5	16.88	F
10	3450	S213JM	131577	657	B	96	208-230/460	25.0	82.5	16.82	C
	1760	215JM	140619	714	B	181	208-230/460	28.0	89.5	17.88	F
15	3450	215JM	151380	794	C	178	208-230/460	36.0	86.8	19.84	H
	1740	254JM	151361	907	C	254	208-230/460	39.0	90.0	22.87	I
20	3450	254JM	151381	918	C	276	208-230/460	48.0	90.0	22.87	I
	1740	256JM	151362	1066	C	312	208-230/460	50.0	91.0	24.53	I
25	3450	256JM	151382	1080	C	318	208-230/460	62.0	89.3	24.53	I
	1740	284JM	801028	1420	C	303	230/460	66.0	87.5	24.31	...
30	3450	284JM	801040	1435	C	325	230/460	73.0	88.5	24.31	...
	1740	286JM	801029	1488	C	350	230/460	79.0	89.5	25.81	...
40	3450	286JM	801041	1647	C	627	230/460	100.0	88.5	25.81	...
	1740	324JM	801030	1945	C	386	230/460	106.0	89.5	26.25	...
50	3450	324JM	801042	2239	C	433	230/460	124.0	89.5	29.12	...

SEE PAGE 46 FOR DRIP COVER KITS

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

LEESON[®] 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.

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.

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	\$275	B	30	208-230/460	3.6	77.0	14.50	B
1½	3450	143JM	121858	277	B	31	208-230/460	4.6	80.0	14.50	B
	1740	145JM	121856	301	B	35	208-230/460	4.8	80.0	14.50	B
2	3450	145JM	121859	340	B	33	208-230/460	6.0	80.0	14.50	B
	1740	145JM	121857	300	B	43	208-230/460	5.8	82.5	16.00	B
3	3450	145JM	121860	360	B	42	208-230/460	7.6	84.0	16.00	B
	1760	182JM	131579	366	B	67	230/460	8.8	84.0	15.59	D
5	3450	184JM	131580	490	B	80	208-230/460	12.4	85.5	15.59	D
	1760	184JM	131581	477	B	89	230/460	13.4	86.0	15.59	D
7½	3450	184JM	131582	543	B	96	208-230/460	18.4	86.5	16.59	D
	1760	215JM	140622	618	B	117	208-230/460	20.4	89.5	18.84	G
10	3450	S213JM	131583	727	B	100	208-230/460	26.2	82.5	18.59	D
	1760	215JM	140623	781	B	136	208-230/460	26.0	89.5	19.84	G
15	3450	254JM	151567	1132	C	245	208-230/460	35.0	90.2	23.80	...
	1760	254JM	151568	1102	C	277	208-230/460	36.6	91.0	23.80	...
20	3450	254JM	151569	1236	C	285	208-230/460	46.2	90.2	23.80	...
	1760	254JM	151570	1337	C	321	208-230/460	48.2	91.0	25.50	...

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	\$596	B	37	208-230/460	3.1	82.5	15.75
1½	3450	143JM	121580	642	B	46	208-230/460	4.0	82.5	15.75
	1725	145JM	121581	660	B	53	208-230/460	4.4	84.0	15.75
2	3450	145JM	121582	727	B	47	208-230/460	5.2	84.0	15.75
	1725	145JM	121583	681	B	49	208-230/460	6.0	84.0	16.75
3	3450	145JM	121584	781	B	45	208-230/460	7.6	85.5	16.25
	1760	182JM	131967	866	B	79	208-230/460	8.2	87.5	16.13
5	3450	184JM	131968	1034	B	78	208-230/460	12.0	87.5	16.13
	1760	184JM	131969	938	B	81	208-230/460	13.0	87.5	16.63
7½	3450	184JM	131970	1134	B	110	208-230/460	16.8	88.5	17.63
	1740	213JM	140733	1265	B	133	208-230/460	20.4	89.5	19.00
10	3450	215JM	140734	1558	B	127	208-230/460	24.0	89.5	21.70
	1740	215JM	140735	1472	B	142	208-230/460	26.0	89.5	20.00
15	3450	215JM	140736	1782	B	142	208-230/460	18.0	90.2	21.70

DRIP COVER KITS FOR JM PUMP MOTORS

Kit Ref.	Frame	Catalog Number	Enclosure	List Price
A	143-145JM	175004	ODP	\$29
B	143-145JM	175932	ODP or TEFC	16
C	182-184JM	175933	ODP	18
D	182-184JM	175695	TEFC	89
E	213-215JM	175305	ODP	51
F	213-215JM	175846	ODP	51
G	213-215JM	175849	TEFC	51
H	213-215JM	175962	ODP	51
I	254-256JM	175963	ODP	67

Stainless JM pump motors on page 213.
Catalog numbers in blue are NEW items.