

**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	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)	Drip Cover Kit Ref.
1	1800	143JM	120996.00☆	42	115/208-230	None	6.4	13.91	A
1½	1800	145JM	120994.00☆	45	115/208-230	None	8.6	14.91	A
2	3600	145JM	121190.00☆	47	115/208-230	None	10.5	14.91	A
	1800	145JM	120995.00☆	45	115/208-230	None	10.5	15.41	A
	1800	182JM	132073.00	70	115/208-230	None	12.4	13.19	C
3	3600	182JM	131640.00☆	80	115/208-230	None	15.2	16.32	C
	1800	182JM	131604.00	73	230	None	16.8	15.82	C
5	3600	184JM	131641.00☆	95	115/208-230	None	24.0	17.32	C
	1800	184JM	131605.00☆	82	230	None	21.0	16.32	C
7½	3600	213JM	140642.00☆	109	230	None	37.0	14.17	E
	1800	215JM	140665.00☆	141	230	None	40.5	18.38	E
10	3600	215JM	140644.00☆	135	230	None	47.0	18.38	E
	1800	215JM	140666.00☆	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	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)	Drip Cover Kit Ref.
1	1800	143JM	G121850.00	44	208-230/460	3.1	82.5	14.62	B
1½	1800	145JM	G121851.00	44	208-230/460	4.8	84.0	14.62	B
2	3600	145JM	G121853.00	44	208-230/460	5.4	84.0	13.42	B
	1800	145JM	G121852.00	48	208-230/460	5.8	84.0	15.12	B
3	3600	145JM	G121854.00	45	208-230/460	8.4	84.0	13.62	B
	1800	182JM	G131562.00	64	208-230/460	9.2	86.5	16.09	J
5	3600	182JM	G131574.00	66	208-230/460	12.0	85.5	16.35	J
	1800	184JM	G131563.00	71	208-230/460	13.2	87.5	17.09	J
7½	3600	184JM	G131576.00	108	208-230/460	17.6	87.5	17.09	J
	1800	213JM	G140618.00	147	208-230/460	19.2	88.5	19.16	F
10	3600	213JM	G141121.00	130	208-230/460	23.4	88.5	19.16	C
	1800	215JM	G140619.00	135	208-230/460	25.0	89.5	19.16	F
15	3600	215JM	G151380.60	175	208-230/460	34.0	89.5	20.41	H
	1800	254JM	G151361.60	268	208-230/460	38.5	91.0	25.45	I
20	3600	254JM	G151381.60	261	208-230/460	46.0	90.2	22.42	I
	1800	256JM	G151362.60	310	208-230/460	52.0	91.0	24.17	I
25	3600	256JM	G151382.60	295	208-230/460	58.0	91.0	24.17	I
	1800	284JM	G801028.00	391	230/460	66.0	91.7	24.31	...
30	3600	284JM	G801040.00	376	230/460	73.0	91.0	24.31	...
	1800	286JM	G801029.00	437	230/460	72.0	92.4	25.81	...
40	3600	286JM	G801041.00	429	230/460	94.0	91.7	25.81	...
	1800	324JM	G801030.00	531	230/460	97.0	93.0	26.25	...
50	3600	324JM	G801042.00	514	230/460	117.0	92.4	26.25	...

**DRIP COVER KITS FOR JM PUMP MOTORS**

Kit Ref.	Frame	Catalog Number	Enclosure
A	143-145JM	175004.00	ODP
B	143-145JM	175932.00	ODP or TEFC
C	182-184JM	175933.00	ODP
D	182-184JM	175695.00	TEFC
E	213-215JM	175305.00	ODP
F	213-215JM	175846.00	ODP
G	213-215JM	175849.00	TEFC
H	213-215JM	175962.00	ODP
I	254-256JM	175963.00	ODP
J	182-184JM	175614.00	ODP

Catalog Numbers in Green are EPACK Motors.

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

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:

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 page 216 for Drip Cover Kits.

### THREE PHASE • TEFC • RIGID BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)	Drip Cover Kit Ref.
1	1800	143JM	<b>G121855.00</b>	35	208-230/460	3.0	82.5	15.00	B
1½	3600	143JM	<b>G121858.00</b>	37	208-230/460	4.0	82.5	15.00	B
	1800	145JM	<b>G121856.00</b>	46	208-230/460	4.4	84.0	16.50	B
2	3600	145JM	<b>G121859.00</b>	38	208-230/460	5.2	84.0	15.50	B
	1800	145JM	<b>G121857.00</b>	50	208-230/460	5.6	84.0	16.00	B
3	3600	145JM	<b>G121860.00</b>	49	208-230/460	7.4	85.5	17.35	B
	1800	182JM	<b>G131579.00</b>	75	230/460	8.4	87.5	17.85	D
5	3600	184JM	<b>G131580.00</b>	82	208-230/460	12.4	87.5	18.35	D
	1800	184JM	<b>G131581.00</b>	97	230/460	12.6	87.5	18.85	D
7½	3600	184JM	<b>G131582.00</b>	104	208-230/460	18.4	88.5	22.09	D
	3600	S213JM	<b>G132027.00</b>	121	208-230/460	18.4	88.5	22.09	D
	1800	215JM	<b>G140622.00</b>	127	208-230/460	20.0	89.5	20.59	G
10	3600	213JM	<b>G141122.00</b>	130	208-230/460	24.0	89.5	22.09	D
	1800	215JM	<b>G140623.00</b>	145	208-230/460	25.6	90.2	22.09	G
15	3600	215JM	<b>G140764.00</b>	139	208-230/460	35.0	90.2	24.74	...
	3600	254JM	<b>G151567.60</b>	171	208-230/460	35.0	90.2	24.80	...
	1800	254JM	<b>G151568.60</b>	287	208-230/460	37.0	91.0	24.80	...
20	3600	254JM	<b>G151569.60</b>	299	208-230/460	46.2	90.2	24.80	...
	1800	254JM	<b>G151570.60</b>	324	208-230/460	48.2	91.0	26.50	...
25	3600	256JM	<b>G151417.60</b>	311	208-230/460	56.4	91.0	28.00	I
	1800	284JM	<b>G151418.60</b>	373	208-230/460	58.8	92.4	28.17	...
30	3600	284JM	<b>G151420.60</b>	378	208-230/460	69.2	91.0	28.17	...
	1800	286JM	<b>G151422.60</b>	431	208-230/460	69.8	92.4	29.74	...
40	3600	286JM	<b>G151424.60</b>	499	208-230/460	93.0	91.7	29.74	...
	1800	324JM	<b>G151426.60</b>	531	208-230/460	90.0	93.0	32.33	...

### TEFC JP PUMP MOTORS • RIGID BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 115V	% F.L. Eff.	"C" Dim. (Inches)
1 1/2	1800	145JP	<b>G151736.60</b>	54	208-230/460	4.5	85.5	18.66
2	1800	145JP	<b>G151737.60</b>	57	208-230/460	5.8	85.5	18.66
3	3600	182JP	<b>G151738.60</b>	91	208-230/460	7.4	85.5	20.71
	1800	182JP	<b>G151739.60</b>	95	208-230/460	8.5	87.5	20.71
5	3600	184JP	<b>G151740.60</b>	103	208-230/460	12.0	87.5	20.71
	1800	184JP	<b>G151741.60</b>	103	208-230/460	13.8	87.5	20.71
7 1/2	3600	213JP	<b>G151742.60</b>	156	208-230/460	17.8	88.5	20.71
	1800	213JP	<b>G151743.60</b>	158	208-230/460	19.2	89.5	24.02
10	3600	215JP	<b>G151744.60</b>	166	208-230/460	23.6	89.5	24.02
	1800	215JP	<b>G151745.60</b>	179	208-230/460	25.2	89.5	25.74
15	3600	215JP	<b>G151746.60</b>	249	208-230/460	35.0	90.2	25.74
	1800	254JP	<b>G151747.60</b>	281	208-230/460	37.0	92.4	28.03
20	3600	254JP	<b>G151748.60</b>	260	208-230/460	46.2	90.2	28.03
	1800	256JP	<b>G151749.60</b>	324	208-230/460	48.2	91.0	29.76
25	3600	256JP	<b>G151750.60</b>	366	208-230/460	58.2	91.0	29.76
	1800	284JP	<b>G151751.60</b>	391	208-230/460	58.8	92.4	30.04
30	3600	286JP	<b>G151752.60</b>	380	208-230/460	69.2	91.0	30.04
	1800	286JP	<b>G151753.60</b>	438	208-230/460	69.8	92.4	31.61
40	3600	324JP	<b>G151754.60</b>	580	208-230/460	93.0	91.7	31.61
	1800	324JP	<b>G151755.60</b>	583	208-230/460	90.0	93.0	32.80
50	3600	326JP	<b>G151756.60</b>	610	208-230/460	112.0	92.4	34.17



Washdown JM Pump motors page 87  
Stainless JM pump motors on page 92.

Catalog Numbers in Green are EPACT Motors.

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

Specifications are subject to change without notice