

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	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
3/4	3450	56J	116774	A	23	208-230/460	2.4	75.5	10.81
1	3450	56J	116775	A	35	208-230/460	3.2	77.0	10.81
1½	3450	56J	116776	A	42	208-230/460	4.2	81.5	11.81
2	3450	56J	116777	A	47	208-230/460	5.6	82.5	12.31
3	3450	56J	116778	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	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
3/4	3450	56J	116779	A	24	208-230/460	2.4	75.5	10.81
1	3450	56J	116780	A	36	208-230/460	3.2	77.0	10.81
1½	3450	56J	116781	A	43	208-230/460	4.2	81.5	11.81
2	3450	56J	116782	A	48	208-230/460	5.6	82.5	12.31
3	3450	56J	116783	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	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/3	3450	S56J	102197	A	15	208-230/460	1.4	68.0	9.94
1/2	3450	S56J	102198	A	17	208-230/460	1.8	69.0	9.94
3/4	3450	S56J	101637	A	18	208-230/460	2.4	79.0	10.44
1	3450	S56J	101638	A	25	208-230/460	3.0	78.0	11.44
1½	3450	56J	113891	A	28	208-230/460	4.2	81.5	11.34
2	3450	56J	113892	A	33	208-230/460	5.6	82.5	11.84
3	3450	56J	113893	A	36	208-230/460	7.6	84.0	12.34
5	3490	56J	116698	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	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	3450	S56J	102199	A	17	208-230/460	1.8	69.0	9.94
3/4	3450	S56J	101776	A	18	208-230/460	2.4	79.0	10.44
1	3450	S56J	101775	A	26	208-230/460	3.0	78.0	11.44
1½	3450	56J	114203	A	33	208-230/460	4.2	81.5	11.34
2	3450	56J	114202	A	35	208-230/460	5.6	82.5	11.84
3	3450	56HJ	114201	A	35	208-230/460	8.0	84.0	11.84
5	3490	56HJ	116699	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	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	3450	56J	114931	A	21	208-230/460	2.0	67.0	10.81
3/4	3450	56J	114208	A	22	208-230/460	2.4	75.5	11.31
1	3450	56J	114207	A	25	208-230/460	3.2	77.0	11.31
1½	3450	56J	114206	A	31	208-230/460	4.2	81.5	12.31
2	3450	56J	114205	A	40	208-230/460	5.6	82.5	12.81
3	3450	56J	114204	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	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
3/4	3450	56J	113028	A	23	208-230/460	2.4	75.5	11.31
1	3450	56J	113029	A	24	208-230/460	3.2	77.0	11.31
1½	3450	56J	113030	A	31	208-230/460	4.2	81.5	12.31
2	3450	56J	113031	A	36	208-230/460	5.6	82.5	12.81
3	3450	56HJ	113032	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	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	3450	56J	116187▲●	A	33	208-230/460	1.6	82.5	12.87
1	3450	56J	116184▲	A	33	208-230/460	3.2	77.0	13.46
1½	3450	56J	116182▲	A	48	208-230/460	4.2	81.5	14.46
2	3450	56J	116180▲	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.

JP PUMP MOTORS



THREE PHASE • DRIP-PROOF • RIGID BASE

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

* F1 mounting only.

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.

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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.**

THREE PHASE • DRIP-PROOF • RIGID BASE

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

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.