WOLONG

Power your future

EMPORIUM ENERGY



Energy Saver SD Close Coupled Pump Motors

Severe-Duty NEMA B
3 Phase, 50/60 Hz
208-230 / 460 V
1 - 75 HP

NEMA B Motors
JP and JM Mounting Designs

Wolong closed coupled motors are used in challenging pumping, fluid handling, and food processing applications. These motors easily handle loads in harsh environments found in the aggregate, cement, petrochem, pulp/paper, and food industries.

These motors feature aluminum or heavy-duty cast iron frames, endshields, and conduit boxes, heavy gauge steel fan covers, and non-sparking fans.



Benefits

- High efficiency for low running costs
- Low noise levels
- High torque with smooth acceleration and low current
- 3 year warranty

Key Features

NEMA Frames	143 - 365
Poles	2, 4
Horsepower Range	1 - 75
Voltage	208-230/460
Agency Approvals	CSA
Altitude	3300 ft
Maximum Ambient	40°C @ 1.25SF @ 60Hz
Bearing Type	Deep Groove Ball Bearings
Conduit Box Rotation	90 degree increments
Div 2 Temp Codes	Division 2 Class I Groups A, B, C, D, Zone 2; Groups IIA & IIB T3 with VFD
Efficiency	NEMA Premium
Enclosure	TEFC, IP55
Field Modifiable to F2	Yes with repositional feet
Frequency	50/60Hz or Variable on PWM drive
Insulation	Class F, Class B Temperature Rise, Non-Hygroscopic, and Anti-Fungus

Inverter Capabilities	NEMA MG1 Part 31 VFD 5:1 Constant Torque 20:1 Variable Torque
Lifting	Eyebolt
Material *** 40+ HP**	Conduit Box: Aluminum, Cast Iron* Endshield: Aluminum, Cast Iron* Fan: Non-Sparking Fan Cover: Heavy Gauge Steel Frame: Aluminum, Cast Iron*
Mounting	Horizontal Foot Mounted / C-Face
Mounting Holes	Dual drilled for multiple mounting
NEMA Design	B
Service Factor	1.25 @ 60Hz, 1.0 @ 50Hz
Shaft	45# steel
Sound Power	NEMA MG1 Part 9
Tests	NEMA Routine
Vibration	NEMA Grade A
Winding Temp. Rise	Class B @ 1.0SF

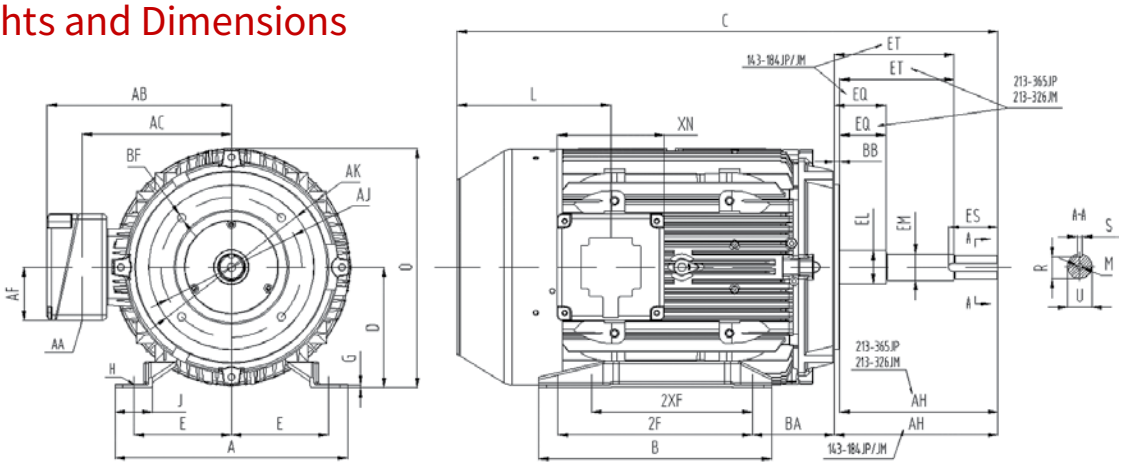
Ratings





NEMA B (IP55)			JM Mounting			JP Mounting		
HP	RPM	Volts	Frame	Cat. No.	Model No.	Frame	Cat. No.	Model No.
1	3600	208-230/460	143JM	**WV229**	5KS143KWV110	143JP	**WV329**	5KS143KWV111
1	1800	208-230/460	143JM	**WV200**	5KS143KWV203	143JP	**WV300**	5KS143KWV209
1.5	3600	208-230/460	143JM	**WV201**	5KS143KWV103	143JP	**WV301**	5KS143KWV109
1.5	1800	208-230/460	145JM	**WV202**	5KS145KWV202	145JP	**WV302**	5KS145KWV207
2	3600	208-230/460	145JM	**WV203**	5KS145KWV103	145JP	**WV303**	5KS145KWV109
2	1800	208-230/460	145JM	**WV204**	5KS145KWV203	145JP	**WV304**	5KS145KWV209
3	3600	208-230/460	182JM	**WV205**	5KS182KWV103	182JP	**WV305**	5KS182KWV109
3	1800	208-230/460	182JM	**WV206**	5KS182KWV203	182JP	**WV306**	5KS182KWV209
5	3600	208-230/460	184JM	**WV207**	5KS184KWV103	184JP	**WV307**	5KS184KWV109
5	1800	208-230/460	184JM	**WV208**	5KS184KWV203	184JP	**WV308**	5KS184KWV209
7.5	3600	208-230/460	213JM	**WV209**	5KS213KWV103	213JP	**WV309**	5KS213KWV109
7.5	1800	208-230/460	213JM	**WV210**	5KS213KWV203	213JP	**WV310**	5KS213KWV209
10	3600	208-230/460	215JM	**WV211**	5KS215KWV103	215JP	**WV311**	5KS215KWV109
10	1800	208-230/460	215JM	**WV212**	5KS215KWV203	215JP	**WV312**	5KS215KWV209
15	3600	208-230/460	254JM	**WV213**	5KS254KWV103	254JP	**WV313**	5KS254KWV109
15	1800	208-230/460	254JM	**WV214**	5KS254KWV203	254JP	**WV314**	5KS254KWV209
20	3600	208-230/460	256JM	**WV215**	5KS256KWV103	256JP	**WV315**	5KS256KWV109
20	1800	208-230/460	256JM	**WV216**	5KS256KWV203	256JP	**WV316**	5KS256KWV209
25	3600	208-230/460	284JM	**WV217**	5KS284KWV113	284JP	**WV317**	5KS284KWV119
25	1800	208-230/460	284JM	**WV218**	5KS284KWV203	284JP	**WV318**	5KS284KWV209
30	3600	208-230/460	286JM	**WV219**	5KS286KWV113	286JP	**WV319**	5KS286KWV119
30	1800	208-230/460	286JM	**WV220**	5KS286KWV203	286JP	**WV320**	5KS286KWV209
40	3600	208-230/460	324JM	**WV221**	5KS324KWC113	324JP	**WV321**	5KS324KWC119
40	1800	208-230/460	324JM	**WV222**	5KS324KWC203	324JP	**WV322**	5KS324KWC209
50	3600	208-230/460	326JM	**WV223**	5KS326KWC113	326JP	**WV323**	5KS326KWC119
50	1800	208-230/460	326JM	**WV224**	5KS326KWC203	326JP	**WV324**	5KS326KWC209
60	3600	208-230/460	364JM	**WV225**	5KS364KWC113	364JP	**WV325**	5KS364KWC119
60	1800	208-230/460	364JM	**WV226**	5KS364KWC203	364JP	**WV326**	5KS364KWC209
75	3600	200-230/460	365JM	**WV227**	5KS365KWC113	365JP	**WV327**	5KS365KWC119
75	1800	200-230/460	365JM	**WV228**	5KS365KWC203	365JP	**WV328**	5KS365KWC209

Weights and Dimensions



Frame	Wgt	JM/JP Dimensions in Inches - Mounting										
		E	2XF	2F	BA	U	R	M	AK	AJ	BF	BB
143	40	2.755	3.975	4.96	2.39	0.874	0.768	UNC 3/8-16	4.500	5.875	UNC 3/8-16	0.134
145	42	2.755	3.975	4.96	2.39	0.874	0.768	UNC 3/8-16	4.500	5.875	UNC 3/8-16	0.134
145	42	2.755	3.975	4.96	2.39	0.874	0.768	UNC 3/8-16	4.500	5.875	UNC 3/8-16	0.134
182	90	3.740	4.510	5.51	2.83	0.874	0.768	UNC 3/8-16	4.500	5.875	UNC 3/8-16	0.158
184	102	3.740	4.510	5.51	2.83	0.874	0.768	UNC 3/8-16	4.500	5.875	UNC 3/8-16	0.158
213	130	4.250	/	5.51	3.54	0.874	0.768	UNC 3/8-16	8.500	7.250	UNC 1/2-13	0.250
215	150	4.250	/	7.01	3.54	0.874	0.768	UNC 3/8-16	8.500	7.250	UNC 1/2-13	0.250
254	280	5.000	8.270	10.00	4.23	1.249	1.106	UNC 1/2-13	8.500	7.248	UNC 1/2-13	0.276
256	280	5.000	8.270	10.00	4.23	1.249	1.106	UNC 1/2-13	8.500	7.248	UNC 1/2-13	0.276
284	315	5.490	9.490	10.98	4.74	1.249	1.106	UNC 1/2-13	12.438	11.000	UNC 5/8-11	0.276
286S	368	5.490	9.490	10.98	4.74	1.249	1.106	UNC 1/2-13	12.438	11.000	UNC 5/8-11	0.276
286	368	5.490	9.490	10.98	4.74	1.249	1.106	UNC 1/2-13	12.438	11.000	UNC 5/8-11	0.276
324	650	6.250	/	10.50	5.25	1.249	1.106	UNC 1/2-13	12.500	11.000	UNC 5/8-11	0.281
326	750	6.250	/	12.00	5.25	1.249	1.106	UNC 1/2-13	12.500	11.000	UNC 5/8-11	0.281
364	1050	7.000	/	11.25	5.88	1.249	1.106	UNC 1/2-13	12.500	11.000	UNC 5/8-11	0.281
365	1050	7.000	/	12.25	5.88	1.249	1.106	UNC 1/2-13	12.500	11.000	UNC 5/8-11	0.281

JM Dimensions in Inches						
Mounting						
S	ET	EQ	AH	EL	EM	C
0.190	2.868	0.616	4.25	1.155	1.000	15.22
0.190	2.868	0.616	4.25	1.155	1.000	15.22
0.190	2.868	0.616	4.25	1.155	1.000	16.27
0.190	2.875	0.622	4.25	1.249	1.000	17.86
0.190	2.875	0.622	4.25	1.249	1.000	17.86
0.190	2.817	0.565	4.25	1.249	1.000	18.88
0.190	2.817	0.565	4.25	1.249	1.000	20.37
0.252	3.000	0.622	5.25	1.749	1.375	24.95
0.252	3.000	0.622	5.25	1.749	1.375	24.95
0.252	3.000	0.622	5.25	1.749	1.375	27.23
0.252	3.000	0.622	5.25	1.749	1.375	27.23
0.252	3.000	0.622	5.25	1.749	1.375	27.23
0.252	3.000	0.625	5.25	1.749	1.375	34.25
0.252	3.000	0.625	5.25	1.749	1.375	34.25
0.252	3.000	0.625	5.25	1.749	1.375	35.70
0.252	3.000	0.625	5.25	1.749	1.375	37.65

Frame	Wgt	JM/JP Dimensions in Inches												
		A	B	D	G	H	J	L	O	AB	AC	AF	AA	XN
143	40	6.46	6.00	3.50	0.16	0.39	1.13	4.73	7.00	5.63	4.57	2.02	3/4"NPT	4.04
145	42	6.46	6.00	3.50	0.16	0.39	1.13	4.73	7.00	5.63	4.57	2.02	3/4"NPT	4.04
145	42	6.46	6.00	3.50	0.16	0.39	1.13	4.73	7.00	5.63	4.57	2.02	3/4"NPT	4.04
182	90	8.43	6.70	4.50	0.16	0.47	1.28	5.41	8.50	6.87	5.71	2.50	3/4"NPT	5.00
184	102	8.43	6.70	4.50	0.16	0.47	1.28	5.41	8.50	6.87	5.71	2.50	3/4"NPT	5.00
213	130	10.00	9.45	5.25	0.20	0.47	1.34	6.61	10.2	7.64	6.52	2.50	1"NPT	5.00
215	150	10.00	8.19	5.25	0.20	0.47	1.34	6.61	10.2	7.64	6.52	2.50	1"NPT	5.00
254	280	11.97	12.0	6.25	0.20	0.59	1.92	7.91	12.36	9.49	7.95	2.76	1	5.51
256	280	11.97	12.0	6.25	0.20	0.59	1.92	7.91	12.36	9.49	7.95	2.76	1	5.51
284	315	12.95	13.0	7.00	0.24	0.59	1.95	9.07	14.09	10.31	8.78	2.76	1	5.51
286S	368	12.95	13.0	7.00	0.24	0.59	1.95	9.07	14.09	10.31	8.78	2.76	1	5.51
286	368	12.95	13.0	7.00	0.24	0.59	1.95	9.07	14.09	10.31	8.78	2.76	1	5.51
324	650	15.25	12.5	8.00	1.00	0.68	2.50	19.50	16.14	12.88	10.63	/	2"NPT	11.38
326	750	15.25	14.5	8.00	1.00	1.07	2.50	19.50	16.14	12.88	10.63	/	2"NPT	11.38
364	1050	16.75	14.0	9.00	1.13	0.68	2.75	22.40	17.63	14.25	12.00	/	3"NPT	15.00
365	1050	16.75	14.7	9.00	1.13	0.68	2.75	24.50	17.63	14.25	12.00	/	3"NPT	15.00

JP Dimensions in Inches						
Mounting						
S	ET	EQ	AH	EL	EM	C
0.190	5.931	1.561	7.309	1.155	1.000	18.28
0.190	5.931	1.561	7.309	1.155	1.000	18.28
0.190	5.931	1.561	7.309	1.155	1.000	19.33
0.190	5.937	1.567	7.315	1.249	1.000	17.86
0.190	5.937	1.567	7.315	1.249	1.000	17.86
0.252	5.817	2.317	8.069	1.748	1.374	22.75
0.252	5.817	2.317	8.069	1.748	1.374	24.24
0.252	5.874	2.374	8.126	1.748	1.375	27.82
0.252	5.874	2.374	8.126	1.748	1.375	27.82
0.252	5.874	2.374	8.126	1.748	1.375	30.11
0.252	5.874	2.374	8.126	1.748	1.375	30.11
0.252	5.874	2.374	8.126	1.748	1.375	30.11
0.252	5.875	2.375	8.125	1.749	1.375	35.84
0.376	5.875	2.375	8.125	1.749	1.375	37.13
0.376	5.875	2.375	8.125	2.124	1.750	38.58
0.252	5.875	2.375	8.125	2.124	1.750	40.53

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