



Single Phase

Fractional 56/56C

NEMA Aluminum

NEMA Cast Iron

NEMA Explosion Proof

Close Coupled Pump Motor

NEMA 2 Speed Motor

NEMA Brake Motor



Premium Efficient Three Phase NEMA JM/JP Close Coupled Pump Motors. Features Include:

- NEMA MG1-Part 31 inverter duty 15:1 constant torque, 20:1 variable torque
- Aluminum construction from 1 HP to 30 HP
- Cast iron construction from 40 HP to 75 HP
- 1.25 service factor at 60Hz, 1.0 service factor at 50Hz
- Class F insulation with class B temperature rise
- IP55 degree of protection for washdown duty enclosure
- Full contact shaft seals inside both brackets for increased protection against contaminants
- Dual rated 60/50Hz at same HP
- Split conduit box is 90 degree rotatable
- CSA approved for Class I; Division 2; Groups A, B, C & D, Zone 2; Groups IIA & IIB T3 on sine wave power
- Internal tropicproof
- 3 year warranty

Notes:
RF - Removable Feet
TM - Thermistors

NEMA Close Coupled Pump Motor 143JM-365JM - TEFC C-Face With Removable Feet



HP	RPM	Frame	Voltage	P/N	List	FL Eff.	C Dim. (IN)	S.F. 60 Hz	FL Amps	LBS	Notes			
Aluminum Frames														
1	1800	143/5JM	230/460 V	BA4N001-4JM	\$490	85.5	14.18	1.25	1.40	44	RF			
	1800	143/5JM	575 V	BA4N001-5JM	\$490	85.5	14.18	1.25	1.12	44	RF			
	1200	145JM	208/416 V	PA6N001-3JM	\$605	82.5	16.20	1.25	1.87	46	RF			
	1200	145JM	230/460 V	PA6N001-4JM	\$605	82.5	16.20	1.25	1.70	46	RF			
	1200	145JM	575 V	PA6N001-5JM	\$605	82.5	16.20	1.25	1.40	46	RF			
1.5	3600	143/5JM	230/460 V	BA2N1.5-4JM	\$515	84	14.18	1.25	1.90	44	RF			
	3600	143/5JM	575 V	BA2N1.5-5JM	\$515	84	14.18	1.25	1.52	44	RF			
	1800	143/5JM	230/460 V	BA4N1.5-4JM	\$530	86.5	14.18	1.25	2.10	62	RF			
	1800	143/5JM	575 V	BA4N1.5-5JM	\$530	86.5	14.18	1.25	1.68	62	RF			
	1200	182JM	208/416 V	PA6N1.5-3JM	\$884	87.5	17.30	1.25	2.43	70	RF			
	1200	182JM	230/460 V	PA6N1.5-4JM	\$884	87.5	17.30	1.25	2.20	70	RF			
2	1200	182JM	575 V	PA6N1.5-5JM	\$884	87.5	17.30	1.25	1.80	70	RF			
	3600	143/5JM	230/460 V	BA2N002-4JM	\$565	85.5	14.18	1.25	2.60	62	RF			
	3600	143/5JM	575 V	BA2N002-5JM	\$565	85.5	14.18	1.25	2.08	62	RF			
	1800	143/5JM	230/460 V	BA4N002-4JM	\$566	86.5	14.18	1.25	2.90	70	RF			
	1800	143/5JM	575 V	BA4N002-5JM	\$566	86.5	14.18	1.25	2.32	70	RF			
	1200	184JM	208/416 V	PA6N002-3JM	\$996	88.5	18.30	1.25	3.31	76	RF			
	1200	184JM	230/460 V	PA6N002-4JM	\$996	88.5	18.30	1.25	3.00	76	RF			
3	1200	184JM	575 V	PA6N002-5JM	\$996	88.5	18.30	1.25	2.40	76	RF			
	3600	182/4JM	230/460 V	BA2N003-4JM	\$750	86.5	15.43	1.25	3.50	80	RF			
	3600	182/4JM	575 V	BA2N003-5JM	\$750	86.5	15.43	1.25	2.80	80	RF			
	1800	182/4JM	230/460 V	BA4N003-4JM	\$760	89.5	15.43	1.25	3.90	92	RF			
	1800	182/4JM	575 V	BA4N003-5JM	\$760	89.5	15.43	1.25	3.12	92	RF			
	1200	213JM	208/416 V	PA6N003-3JM	\$1,256	89.5	19.90	1.25	4.64	120	RF			
	1200	213JM	230/460 V	PA6N003-4JM	\$1,256	89.5	19.90	1.25	4.20	120	RF			
5	1200	213JM	575 V	PA6N003-5JM	\$1,256	89.5	19.90	1.25	3.40	120	RF			
	3600	182/4JM	230/460 V	BA2N005-4JM	\$820	88.5	16.27	1.25	5.80	92	RF			
	3600	182/4JM	575 V	BA2N005-5JM	\$820	88.5	16.27	1.25	4.64	92	RF			
	1800	182/4JM	230/460 V	BA4N005-4JM	\$788	89.5	16.27	1.25	6.50	105	RF			
	1800	182/4JM	575 V	BA4N005-5JM	\$788	89.5	16.27	1.25	5.20	105	RF			
	1200	215JM	208/416 V	PA6N005-3JM	\$1,550	89.5	21.40	1.25	7.85	139	RF			
	1200	215JM	230/460 V	PA6N005-4JM	\$1,550	89.5	21.40	1.25	7.10	139	RF			
7.5	1200	215JM	575 V	PA6N005-5JM	\$1,550	89.5	21.40	1.25	5.70	139	RF			
	3600	213/5JM	230/460 V	BA2N7.5-4JM	\$1,070	89.5	19.30	1.25	8.40	140	RF			
	3600	213/5JM	575 V	BA2N7.5-5JM	\$1,070	89.5	19.30	1.25	6.72	140	RF			
	1800	213/5JM	230/460 V	BA4N7.5-4JM	\$1,130	91.7	19.30	1.25	9.80	153	RF			
	1800	213/5JM	575 V	BA4N7.5-5JM	\$1,130	91.7	19.30	1.25	7.84	153	RF			
	1200	254/6JM	208/416 V	BA6N7.5-3JM	\$2,049	91.7	23.44	1.25	10.73	160	RF, TM			
	1200	254/6JM	230/460 V	BA6N7.5-4JM	\$2,049	91.7	23.44	1.25	9.70	160	RF, TM			
10	1200	254/6JM	575 V	BA6N7.5-5JM	\$2,049	91.7	23.44	1.25	7.76	160	RF, TM			
	3600	213/5JM	230/460 V	BA2N010-4JM	\$1,330	90.2	19.30	1.25	11.60	153	RF			
	3600	213/5JM	575 V	BA2N010-5JM	\$1,330	90.2	19.30	1.25	9.28	153	RF			
	1800	213/5JM	230/460 V	BA4N010-4JM	\$1,350	91.7	19.30	1.25	13.20	163	RF			
15	1800	213/5JM	575 V	BA4N010-5JM	\$1,350	91.7	19.30	1.25	10.56	163	RF			
	3600	254/6JM	230/460 V	BA2N015-4JM	\$1,970	91	23.44	1.25	17.00	258	RF, TM			
	3600	254/6JM	575 V	BA2N015-5JM	\$1,970	91	23.44	1.25	13.60	258	RF, TM			
	1800	254/6JM	230/460 V	BA4N015-4JM	\$1,980	92.4	23.44	1.25	17.80	268	RF, TM			
20	1800	254/6JM	575 V	BA4N015-5JM	\$1,980	92.4	23.44	1.25	14.24	268	RF, TM			
	3600	254/6JM	230/460 V	BA2N020-4JM	\$2,250	91	23.44	1.25	22.20	268	RF, TM			
	3600	254/6JM	575 V	BA2N020-5JM	\$2,250	91	23.44	1.25	17.76	268	RF, TM			
	1800	254/6JM	230/460 V	BA4N020-4JM	\$2,260	93	23.44	1.25	23.30	286	RF, TM			
				1800	254/6JM	575 V	BA4N020-5JM	\$2,260	93	23.44	1.25	18.64	286	RF, TM

Discount Category **56**

Single Phase

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**NEMA Close Coupled Pump Motor 143JM-365JM - TEFC
C-Face With Removable Feet**

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HP	RPM	Frame	Voltage	P/N	List	FL Eff.	C Dim. (IN)	S.F. 60 Hz	FL Amps	LBS	Notes
25	3600	284/6JM	230/460 V	BA2N025-4JM	\$2,550	91.7	24.97	1.25	27.20	330	RF, TM
	3600	284/6JM	575 V	BA2N025-5JM	\$2,550	91.7	24.97	1.25	21.76	330	RF, TM
	1800	284/6JM	230/460 V	BA4N025-4JM	\$2,730	93.6	26.34	1.25	27.90	362	RF, TM
	1800	284/6JM	575 V	BA4N025-5JM	\$2,730	93.6	26.34	1.25	22.32	362	RF, TM
30	3600	284/6JM	230/460 V	BA2N030-4JM	\$3,200	91.7	24.97	1.25	32.40	368	RF, TM
	3600	284/6JM	575 V	BA2N030-5JM	\$3,200	91.7	24.97	1.25	25.92	368	RF, TM
	1800	284/6JM	230/460 V	BA4N030-4JM	\$3,220	93.6	26.34	1.25	33.90	380	RF, TM
	1800	284/6JM	575 V	BA4N030-5JM	\$3,220	93.6	26.34	1.25	27.12	380	RF, TM

HP	RPM	Frame	Voltage	P/N	List	FL Eff.	C Dim. (IN)	S.F. 60 Hz	FL Amps	LBS	Notes
Cast Iron Frames											
40	3600	324JM	230/460 V	BC2N040-4JM	\$3,800	93	31.25	1.25	46.00	637	RF, TM
	3600	324JM	575 V	BC2N040-5JM	\$3,800	93	31.25	1.25	36.80	637	RF, TM
	1800	324JM	230/460 V	BC4N040-4JM	\$3,830	94.1	32.75	1.25	45.00	647	RF, TM
	1800	324JM	575 V	BC4N040-5JM	\$3,830	94.1	32.75	1.25	36.00	647	RF, TM
50	3600	326JM	230/460 V	BC2N050-4JM	\$4,400	93.6	32.75	1.25	57.00	755	RF, TM
	3600	326JM	575 V	BC2N050-5JM	\$4,400	93.6	32.75	1.25	45.60	755	RF, TM
	1800	326JM	230/460 V	BC4N050-4JM	\$4,500	94.5	34.25	1.25	58.00	765	RF, TM
	1800	326JM	575 V	BC4N050-5JM	\$4,500	94.5	34.25	1.25	46.40	765	RF, TM
60	3600	364JM	230/460 V	BC2N060-4JM	\$6,240	93.6	34.25	1.25	66.00	918	RF, TM
	3600	364JM	575 V	BC2N060-5JM	\$6,240	93.6	34.25	1.25	52.80	918	RF, TM
	1800	364JM	230/460 V	BC4N060-4JM	\$6,200	95	36.38	1.25	68.00	928	RF, TM
	1800	364JM	575 V	BC4N060-5JM	\$6,200	95	36.38	1.25	54.40	928	RF, TM
75	3600	365JM	230/460 V	BC2N075-4JM	\$7,400	93.6	34.25	1.25	79.30	1065	RF, TM
	3600	365JM	575 V	BC2N075-5JM	\$7,400	93.6	34.25	1.25	63.40	1065	RF, TM
	1800	365JM	230/460 V	BC4N075-4JM	\$7,600	95.4	38.5	1.25	81.30	1086	RF, TM
	1800	365JM	575 V	BC4N075-5JM	\$7,600	95.4	38.5	1.25	65.00	1086	RF, TM

Discount Category **56**

W Series NEMA JP Close Coupled Pump Motor - TEFC C-Face With Removable Feet

HP	RPM	Frame	Voltage	P/N	List	FL Eff.	C Dim. (IN)	S.F. 60 Hz	FL Amps	LBS	Notes
Aluminum Frames											
1	1800	143/5JP	230/460 V	BA4N001-4JP	\$490	85.5	14.18	1.25	1.40	46	RF
	1800	143/5JP	575 V	BA4N001-5JP	\$490	85.5	14.18	1.25	1.12	46	RF
	1200	145JP	208/416 V	PA6N001-3JP	\$605	82.5	19.30	1.25	1.87	49	RF
	1200	145JP	230/460 V	PA6N001-4JP	\$605	82.5	19.30	1.25	1.70	49	RF
	1200	145JP	575 V	PA6N001-5JP	\$605	82.5	19.30	1.25	1.40	49	RF
1.5	3600	143/5JP	230/460 V	BA2N1.5-4JP	\$515	84	14.18	1.25	1.90	46	RF
	3600	143/5JP	575 V	BA2N1.5-5JP	\$515	84	14.18	1.25	1.52	46	RF
	1800	143/5JP	230/460 V	BA4N1.5-4JP	\$530	86.5	14.18	1.25	2.10	66	RF
	1800	143/5JP	575 V	BA4N1.5-5JP	\$530	86.5	14.18	1.25	1.68	66	RF
	1200	182JP	208/416 V	PA6N1.5-3JP	\$884	87.5	20.40	1.25	2.43	74	RF
	1200	182JP	230/460 V	PA6N1.5-4JP	\$884	87.5	20.40	1.25	2.20	74	RF
	1200	182JP	575 V	PA6N1.5-5JP	\$884	87.5	20.40	1.25	1.80	74	RF
2	3600	143/5JP	230/460 V	BA2N002-4JP	\$565	85.5	14.18	1.25	2.60	66	RF
	3600	143/5JP	575 V	BA2N002-5JP	\$565	85.5	14.18	1.25	2.08	66	RF
	1800	143/5JP	230/460 V	BA4N002-4JP	\$566	86.5	14.18	1.25	2.90	74	RF
	1800	143/5JP	575 V	BA4N002-5JP	\$566	86.5	14.18	1.25	2.32	74	RF
	1200	184JP	208/416 V	PA6N002-3JP	\$996	88.5	21.40	1.25	3.31	80	RF
	1200	184JP	230/460 V	PA6N002-4JP	\$996	88.5	21.40	1.25	3.00	80	RF
	1200	184JP	575 V	PA6N002-5JP	\$996	88.5	21.40	1.25	2.40	80	RF
3	3600	182/4JP	230/460 V	BA2N003-4JP	\$750	86.5	15.43	1.25	3.50	85	RF
	3600	182/4JP	575 V	BA2N003-5JP	\$750	86.5	15.43	1.25	2.80	85	RF
	1800	182/4JP	230/460 V	BA4N003-4JP	\$760	89.5	15.43	1.25	3.90	96	RF
	1800	182/4JP	575 V	BA4N003-5JP	\$760	89.5	15.43	1.25	3.12	96	RF
	1200	213JP	208/416 V	PA6N003-3JP	\$1,256	89.5	23.80	1.25	4.64	125	RF
	1200	213JP	230/460 V	PA6N003-4JP	\$1,256	89.5	23.80	1.25	4.20	125	RF
	1200	213JP	575 V	PA6N003-5JP	\$1,256	89.5	23.80	1.25	3.40	125	RF
5	3600	182/4JP	230/460 V	BA2N005-4JP	\$820	88.5	16.27	1.25	5.80	96	RF
	3600	182/4JP	575 V	BA2N005-5JP	\$820	88.5	16.27	1.25	4.64	96	RF
	1800	182/4JP	230/460 V	BA4N005-4JP	\$788	89.5	16.27	1.25	6.50	110	RF
	1800	182/4JP	575 V	BA4N005-5JP	\$788	89.5	16.27	1.25	5.20	110	RF
	1200	215JP	208/416 V	PA6N005-3JP	\$1,550	89.5	25.30	1.25	7.85	145	RF
	1200	215JP	230/460 V	PA6N005-4JP	\$1,550	89.5	25.30	1.25	7.10	145	RF
	1200	215JP	575 V	PA6N005-5JP	\$1,550	89.5	25.30	1.25	5.70	145	RF
7.5	3600	213/5JP	230/460 V	BA2N7.5-4JP	\$1,070	89.5	19.3	1.25	8.40	145	RF
	3600	213/5JP	575 V	BA2N7.5-5JP	\$1,070	89.5	19.3	1.25	6.72	145	RF
	1800	213/5JP	230/460 V	BA4N7.5-4JP	\$1,130	91.7	19.3	1.25	9.80	160	RF
	1800	213/5JP	575 V	BA4N7.5-5JP	\$1,130	91.7	19.3	1.25	7.84	160	RF
	1200	254/6JP	208/416 V	BA6N7.5-3JP	\$2,049	91.7	27.85	1.25	10.73	165	RF, TM
	1200	254/6JP	230/460 V	BA6N7.5-4JP	\$2,049	91.7	27.85	1.25	9.70	165	RF, TM
	1200	254/6JP	575 V	BA6N7.5-5JP	\$2,049	91.7	27.85	1.25	7.76	165	RF, TM
10	3600	213/5JP	230/460 V	BA2N010-4JP	\$1,330	90.2	19.3	1.25	11.60	160	RF
	3600	213/5JP	575 V	BA2N010-5JP	\$1,330	90.2	19.3	1.25	9.28	160	RF
	1800	213/5JP	230/460 V	BA4N010-4JP	\$1,350	91.7	19.3	1.25	13.20	170	RF
	1800	213/5JP	575 V	BA4N010-5JP	\$1,350	91.7	19.3	1.25	10.56	170	RF
15	3600	254/6JP	230/460 V	BA2N015-4JP	\$1,970	91	23.44	1.25	17.00	265	RF, TM
	3600	254/6JP	575 V	BA2N015-5JP	\$1,970	91	23.44	1.25	13.60	265	RF, TM
	1800	254/6JP	230/460 V	BA4N015-4JP	\$1,980	92.4	23.44	1.25	17.80	274	RF, TM
	1800	254/6JP	575 V	BA4N015-5JP	\$1,980	92.4	23.44	1.25	14.24	274	RF, TM
20	3600	254/6JP	230/460 V	BA2N020-4JP	\$2,250	91	23.44	1.25	22.20	274	RF, TM
	3600	254/6JP	575 V	BA2N020-5JP	\$2,250	91	23.44	1.25	17.76	274	RF, TM
	1800	254/6JP	230/460 V	BA4N020-4JP	\$2,260	93	23.44	1.25	23.30	294	RF, TM
	1800	254/6JP	575 V	BA4N020-5JP	\$2,260	93	23.44	1.25	18.64	294	RF, TM

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Close Coupled
Pump Motor

NEMA
2 Speed Motor

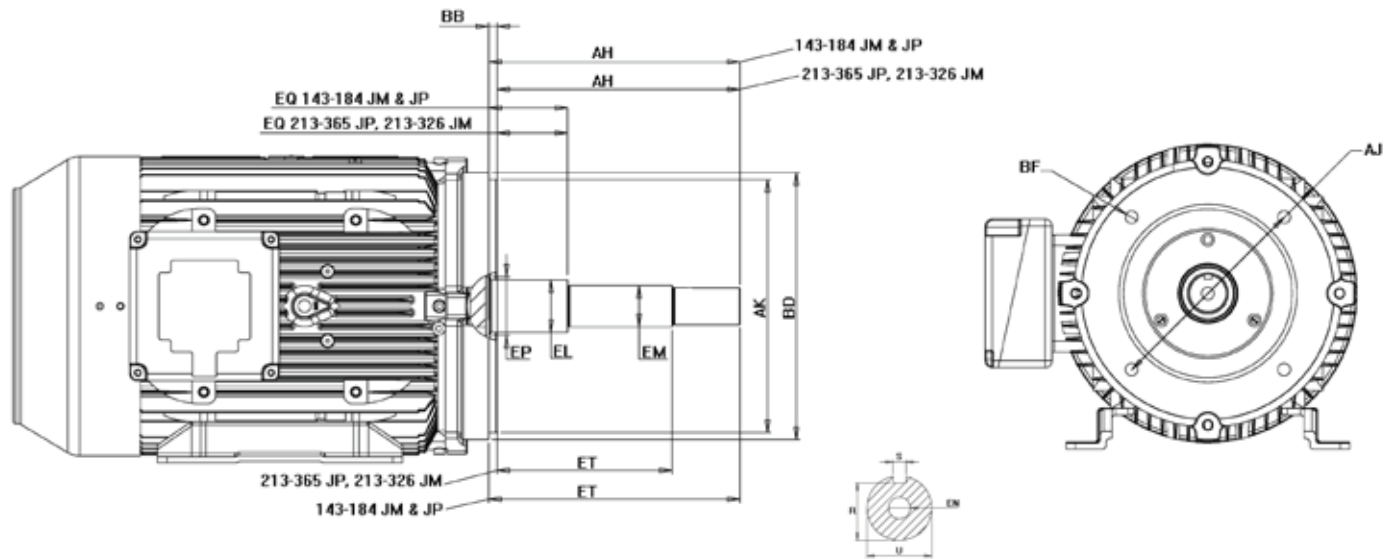
NEMA
Brake Motor

HP	RPM	Frame	Voltage	P/N	List	FL Eff.	C Dim. (IN)	S.F. 60 Hz	FL Amps	LBS	Notes
25	3600	284/6JP	230/460 V	BA2N025-4JP	\$2,550	91.7	24.97	1.25	27.20	340	RF, TM
	3600	284/6JP	575 V	BA2N025-5JP	\$2,550	91.7	24.97	1.25	21.76	340	RF, TM
	1800	284/6JP	230/460 V	BA4N025-4JP	\$2,730	93.6	26.34	1.25	27.90	375	RF, TM
	1800	284/6JP	575 V	BA4N025-5JP	\$2,730	93.6	26.34	1.25	22.32	375	RF, TM
30	3600	284/6JP	230/460 V	BA2N030-4JP	\$3,200	91.7	24.97	1.25	32.40	380	RF, TM
	3600	284/6JP	575 V	BA2N030-5JP	\$3,200	91.7	24.97	1.25	25.92	380	RF, TM
	1800	284/6JP	230/460 V	BA4N030-4JP	\$3,220	93.6	26.34	1.25	33.90	394	RF, TM
	1800	284/6JP	575 V	BA4N030-5JP	\$3,220	93.6	26.34	1.25	27.12	394	RF, TM

HP	RPM	Frame	Voltage	P/N	List	FL Eff.	C Dim. (IN)	S.F. 60 Hz	FL Amps	LBS	Notes
Cast Iron Frames											
40	3600	324JP	230/460 V	BC2N040-4JP	\$3,800	93	31.25	1.25	46.00	650	RF, TM
	3600	324JP	575 V	BC2N040-5JP	\$3,800	93	31.25	1.25	36.80	650	RF, TM
	1800	324JP	230/460 V	BC4N040-4JP	\$3,830	94.1	32.75	1.25	45.00	660	RF, TM
	1800	324JP	575 V	BC4N040-5JP	\$3,830	94.1	32.75	1.25	36.00	660	RF, TM
50	3600	326JP	230/460 V	BC2N050-4JP	\$4,400	93.6	32.75	1.25	57.00	770	RF, TM
	3600	326JP	575 V	BC2N050-5JP	\$4,400	93.6	32.75	1.25	45.60	770	RF, TM
	1800	326JP	230/460 V	BC4N050-4JP	\$4,500	94.5	34.25	1.25	58.00	778	RF, TM
	1800	326JP	575 V	BC4N050-5JP	\$4,500	94.5	34.25	1.25	46.40	778	RF, TM
60	3600	364JP	230/460 V	BC2N060-4JP	\$6,240	93.6	34.25	1.25	66.00	930	RF, TM
	3600	364JP	575 V	BC2N060-5JP	\$6,240	93.6	34.25	1.25	52.80	930	RF, TM
	1800	364JP	230/460 V	BC4N060-4JP	\$6,200	95	36.38	1.25	68.00	940	RF, TM
	1800	364JP	575 V	BC4N060-5JP	\$6,200	95	36.38	1.25	54.40	940	RF, TM
75	3600	365JP	230/460 V	BC2N075-4JP	\$7,400	93.6	34.25	1.25	79.30	1075	RF, TM
	3600	365JP	575 V	BC2N075-5JP	\$7,400	93.6	34.25	1.25	63.40	1075	RF, TM
	1800	365JP	230/460 V	BC4N075-4JP	\$7,600	95.4	38.5	1.25	81.30	1100	RF, TM
	1800	365JP	575 V	BC4N075-5JP	\$7,600	95.4	38.5	1.25	65.00	1100	RF, TM

Discount Category **56**

NEMA JM/JP TEFC Dimensions Frame Sizes 143-364



JM Dimensions

Frame	U	AH	AJ	AK	BB	BD Max.	BF			EL	EM	EN				EQ	ER Min.	Keyseat			ET
							No.	Tap Size	Bolt Pen. Allow.			Tap Size	Tap Drill Depth Max.	Bolt Pen. Allow.	EP Min.			R	ES Min.	S	
143JM & 145JM	0.8745	4.281	5.875	4.500	0.156	6.62	4	3/8-16	0.56	1.156	1.0000	3/8-16	1.12	0.75	1.156	0.640	4.25	0.771-	1.65	0.190-	2.890
	0.8740	4.219		4.497	0.125					1.154	0.9995					0.610		0.756		0.188	
182JM & 184JM	0.8745	4.281	5.875	4.500	0.156	6.62	4	3/8-16	0.56	1.250	1.0000	3/8-16	1.12	0.75	1.250	0.640	4.25	0.771-	1.65	0.190-	2.890
	0.8740	4.219		4.497	0.125					1.248	0.9995					0.610		0.756		0.188	
213JM & 215JM	0.8745	4.281	7.250	8.500	0.312	9.00	4	1/2-13	0.75	1.250	1.0000	3/8-16	1.12	0.75	1.750	0.640	4.25	0.771-	1.65	0.190-	2.890
	0.8740	4.219		8.497	0.250					1.248	0.9995					0.610		0.756		0.188	
254JM & 256JM	1.2495	5.281	7.250	8.500	0.312	10.00	4	1/2-13	0.75	1.750	1.375	1/2-13	1.50	1.00	1.750	0.640	5.25	1.112-	2.53	0.252-	3.015
	1.2490	5.219		8.497	0.250					1.748	1.345					0.610		1.097		0.250	
284JM & 286JM	1.2495	5.281	11.00	12.500	0.312	14.00	4	5/8-11	0.94	1.750	1.375	1/2-13	1.50	1.00	2.125	0.645	5.25	1.112-	2.53	0.252-	3.020
	1.2490	5.219		12.495	0.250					1.748	1.345					0.605		1.097		0.250	
324JM & 326JM	1.2495	5.281	11.00	12.500	0.312	14.00	4	5/8-11	0.94	1.750	1.375	1/2-13	1.50	1.00	2.125	0.645	5.25	1.112-	2.53	0.252-	3.020
	1.2490	5.219		12.495	0.250					1.748	1.345					0.605		1.097		0.250	
364JM & 365JM	1.2495	5.281	11.00	12.500	0.312	14.00	4	5/8-11	0.94	1.750	1.375	1/2-13	1.50	1.00	2.125	0.645	5.25	1.112-	2.53	0.252-	3.020
	1.2490	5.219		12.495	0.250					1.748	1.345					0.605		1.097		0.250	

JP Dimensions

Frame	U	AH	AJ	AK	BB	BD Max.	BF			EL	EM	EN				EQ	ER Min.	Keyseat			ET
							No.	Tap Size	Bolt Pen. Allow.			Tap Size	Tap Drill Depth Max.	Bolt Pen. Allow.	EP Min.			R	ES Min.	S	
143JP & 145JP	0.8745	7.343	5.875	4.500	0.156	6.62	4	3/8-16	0.56	1.156	1.0000	3/8-16	1.12	0.75	1.156	1.578	7.312	0.771-	1.65	0.190-	5.952
	0.8740	7.281		4.497	0.125					1.154	0.9995					1.548		0.756		0.188	
182JP & 184JP	0.8745	7.343	5.875	4.500	0.156	6.62	4	3/8-16	0.56	1.250	1.0000	3/8-16	1.12	0.75	1.250	1.578	7.312	0.771-	1.65	0.190-	5.952
	0.8740	7.281		4.497	0.125					1.248	0.9995					1.548		0.756		0.188	
213JP & 215JP	0.8745	8.156	7.250	8.500	0.312	9.00	4	1/2-13	0.75	1.750	1.3750	1/2-13	1.50	1.00	1.750	2.390	8.125	1.112-	2.53	0.252-	5.890
	0.8740	8.094		8.497	0.250					1.748	1.3745					2.360		1.097		0.250	
254JP & 256JP	1.2495	8.156	7.250	8.500	0.312	10.00	4	1/2-13	0.75	1.750	1.3750	1/2-13	1.50	1.00	1.750	2.390	8.125	1.112-	2.53	0.252-	5.890
	1.2490	8.094		8.497	0.250					1.748	1.3745					2.360		1.097		0.250	
284JP & 286JP	1.2495	8.156	11.00	12.500	0.312	14.00	4	5/8-11	0.94	1.750	1.3750	1/2-13	1.50	1.00	2.125	2.390	8.125	1.112-	2.53	0.252-	5.895
	1.2490	8.094		12.495	0.250					1.748	1.3745					2.360		1.097		0.250	
324JP & 326JP	1.2495	8.156	11.00	12.500	0.312	14.00	4	5/8-11	0.94	1.750	1.3750	1/2-13	1.50	1.00	2.125	2.395	8.125	1.112-	2.53	0.252-	5.895
	1.2490	8.094		12.495	0.250					1.748	1.3745					2.355		1.097		0.250	
364JP & 365JP	1.2495	8.156	11.00	12.500	0.312	14.00	4	5/8-11	0.94	2.125	1.7500	1/2-13	1.50	1.00	2.500	2.395	8.125	1.416-	2.53	0.377-	5.895
	1.2490	8.094		12.495	0.250					2.123	1.7495					2.355		0.375		5.855	

*For standard NEMA foot dimensions see page 96

**Definition
IP (Ingress Protection)
IEC Metric Motors**



Protection Against Solid Objects			Protection Against Liquids		
#	Brief Description*	Definitions	#	Brief Description*	Definitions
0	Non-protected machines	No special protection	0	Non-protected machines	No special protection
1	Machine protected against solid objects greater than 50 mm**	Accidental or inadvertent contact with or approach to live and moving parts inside the enclosure by a large surface of the human body, such as a hand (but no protection against deliberate access). Ingress of solid objects exceeding 50 mm in diameter	1	Machine protected against dripping water	Dripping water (vertically falling drops) shall have no harmful effect.
2	Machine protected against solid objects greater than 12 mm**	Contact by fingers or similar objects not exceeding 80 mm in length with or approach to live or moving parts inside the enclosure. Ingress of solid objects exceeding 12 mm in diameter.	2	Machine protected against dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the machine is tilted in any angle up to 15° from its normal position
3	Machine protected against solid objects greater than 2.5 mm**	Contact with or approach to live or moving parts inside the enclosure by tools or wires exceeding 2.5 mm in diameter. Ingress of solid objects exceeding 1 mm in diameter.	3	Machine protected against spraying water	Vertically dripping water shall have no harmful effect when the machine is tilted in any angle up to 15° from its normal position
4	Machine protected against solid objects greater than 1mm**	Contact with or approach to live or moving parts inside the enclosure by wires or strips of thickness greater than 1 mm in diameter.	4	Machine protected against splashing water	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect
5	Dust-protected machine†	Contact with or approach to live or moving parts inside the enclosure. Ingress of dust is not totally prevented but dust does not enter insufficient quantity to interfere with satisfactory operation of the machine.	5	Machine protected against water jets	Water projected by a nozzle against the machine from any direction shall have no harmful effect.
6	Dust-tight machine†	Contact with or approach to live or moving parts inside the enclosure. No ingress of dust	6	Machine protected against heavy seas	Water from heavy seas or water projected in powerful jets shall not enter the machine in harmful quantities.

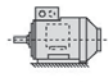
* The brief description given in column 2 on this table should not be used to specify the form of protection.

** Machines assigned a first characteristic number 1,2,3 or 4 will exclude both regularly or irregularly shaped solid objects proved that three normally per pendicular dimensions of the object exceed the appropriate figure in column "Definition".

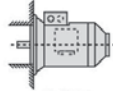
† The degree of protection against dust defined by this standard is a general one. When the nature (dimensions of particles, their nature, for instance fibrous particles) is specified, test conditions should be determined by an agreement between manufacturer and user.

IEC Mounting Codes

Horizontal shaft:



IM B3
IM 1001
foot mounted



IM B5
IM 3001
flange at DE
no feet



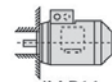
IM B6
IM 1051
foot wall mounted with
feet on left-hand side
when viewed from DE



IM B7
IM 1061
foot wall mounted with
feet on right-hand side
when viewed from DE

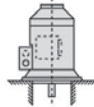


IM B8
IM 1071
ceiling mounted
with feet
above motor

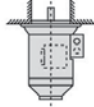


IM B14
IM 3601
face at DE
no feet

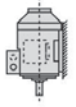
Vertical shaft:



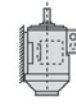
IM V1
IM 3011
flange at DE
shaft down
no feet



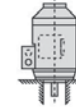
IM V3
IM 3031
flange at DE
shaft up
no feet



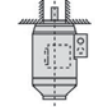
IM V5
IM 1011
vertical foot
wall mounted
shaft down



IM V6
IM 1031
vertical foot
wall mounted
shaft up



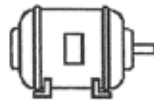
IM V18
IM 3611
face at DE
shaft down
no feet



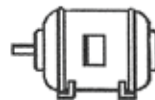
IM V19
IM 3631
face at DE
shaft up
no feet

NEMA Mounting Codes

FLOOR MOUNTINGS



ASSEMBLY F-1



ASSEMBLY F-2

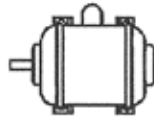


ASSEMBLY F-3

WALL MOUNTINGS



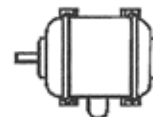
ASSEMBLY W-1



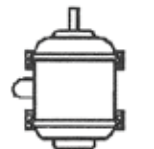
ASSEMBLY W-2



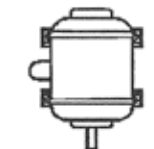
ASSEMBLY W-3



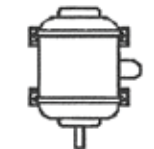
ASSEMBLY W-4



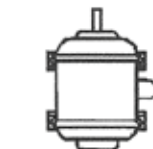
ASSEMBLY W-5



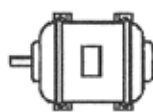
ASSEMBLY W-6



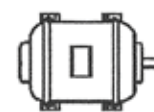
ASSEMBLY W-7



ASSEMBLY W-8



ASSEMBLY W-9



ASSEMBLY W-10



ASSEMBLY W-11

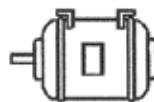


ASSEMBLY W-12

CEILING MOUNTINGS



ASSEMBLY C-1



ASSEMBLY C-2



ASSEMBLY C-3