

METRIC IEC ALUMINUM & CAST IRON CONSTRUCTION

TEFC TOTALLY ENCLOSED FAN COOLED IE1, and IE3 EFFICIENCIES



Features:

- IP55 weather protection
- Class H Insulation, with B Temp Rise
- Inverter Duty Magnet Wire, meets MG1 Part 31 10:1 CT, 20:1 VT
- SKF High Temp bearings
- 56-112 Frames come with Seal/lubricated Bearings, 132 and larger are re-greasable
- Aluminum Construction 56-160 frame, Cast Iron 180-500 frame
- Rotatable/Removable Base 63-160 Frame, Rigid Base 180 larger
- PTC installed on frames 132 and larger
- IEC Design N, with NEMA B Torques
- Terminal Blocks, Stud
- B14 and B5 Flanges are available, see **Accessory** page
- CE Approval
- Rated 60/50Hz



2 POLES: 3600 RPM *

HP	KW	FRAME	MEP CAT#		WEIGHT (KG)	"L" DIMENSIONS (MM)	EFF
			208-230/460/60 - 190-220/380-415/50	575 VAC			
0.18	0.13	56	IJA562-2-24	IJA562-2-35	3.7	199	IE1
0.25	0.18	63	IJA631-2-24	IJA631-2-35	4.3	217	IE1
0.37	0.25	63	IJA632-2-24	IJA632-2-35	4.4	217	IE1
0.50	0.37	63	IJA633-2-24	IJA633-2-35	4.6	217	IE1
0.50	0.37	71	IJA711-2-24	IJA711-2-35	5.3	242	IE1
0.75	0.55	71	IJA712-2-24	IJA712-2-35	6.2	242	IE1
1	0.75	71	IJA713-2-24	IJA713-2-35	6.4	242	IE1
1	0.75	80	IJA801-2-24	IJA801-2-35	9	304	IE3
1.5	1.1	80	IJA802-2-24	IJA802-2-35	8.8	304	IE3
2	1.5	80	IJA803-2-24	IJA803-2-35	9.2	304	IE1
2	1.5	90	IJA90S-2-24	IJA90S-2-35	13.5	336	IE3
3	2.2	90	IJA90L-2-24	IJA90L-2-35	17	361	IE3
4	3	100	IJA100L-2-24	IJA100L-2-35	23.2	406	IE3
5.5	4	112	IJA112M-2-46	IJA112M-2-59	40	395	IE3
7.5	5.5	112	IJA112M2-2-46	IJA112M2-2-59	40.9	395	IE3
7.5	5.5	132	IJA132S1-2-46	IJA132S1-2-59	42	440	IE3
10	7.5	132	IJA132S2-2-46	IJA132S2-2-59	48	440	IE3
12.4	9.2	132	IJA132M1-2-46	IJA132M1-2-59	60	480	IE3
15	11	132	IJA132M2-2-46	IJA132M2-2-59	61.2	480	IE3
15	11	160	IJA160M1-2-46	IJA160M1-2-59	83	590	IE3
20	15	160	IJA160M2-2-46	IJA160M2-2-59	94	590	IE3
25	18.5	160	IJA160L-2-46	IJA160L-2-59	106.5	645	IE3
30	22	160	IJA160L2-2-46	IJA160L2-2-59	108.5	645	IE3
30	22	180	IJC180M-2-46	IJC180M-2-59	182	652	IE3
40	30	200	IJC200L1-2-47	IJC200L1-2-59	246	746	IE3
50	37	200	IJC200L2-2-47	IJC200L2-2-59	265	746	IE3
60	45	225	IJC225M-2-47	IJC225M-2-59	323	780	IE3
75	55	250	IJC250M-2-47	IJC250M-2-59	413	900	IE3
100	75	280	IJC280S-2-47	IJC280S-2-59	546	961	IE3
125	90	280	IJC280M-2-47	IJC280M-2-59	569	1012	IE3
150	110	315	IJC315S-2-47	IJC315S-2-59	897	1224	IE3
180	132	315	IJC315M-2-47	IJC315M-2-59	1029	1334	IE3
220	160	315	IJC315L1-2-47	IJC315L1-2-59	1067	1334	IE3
270	200	315	IJC315L2-2-47	IJC315L2-2-59	1194	1334	IE3

Please see **MaxMotion Voltage Suffix** on page 19

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CONTINUED FROM PREVIOUS PAGE

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			208-230/460/60 - 190-220/380-415/50	575 VAC			
0.12	0.09	56	IJA562-4-24	IJA562-4-35	4.1	199	IE1
0.18	0.13	63	IJA631-4-24	IJA631-4-35	3.9	217	IE1
0.25	0.18	63	IJA632-4-24	IJA632-4-35	4.1	217	IE1
0.33	0.25	63	IJA633-4-24	IJA633-4-35	4.2	217	IE1
0.37	0.25	71	IJA711-4-24	IJA711-4-35	5.3	242	IE1
0.50	0.37	71	IJA712-4-24	IJA712-4-35	6.1	242	IE1
0.75	0.55	71	IJA713-4-24	IJA713-4-35	6.3	242	IE1
0.75	0.55	80	IJA801-4-24	IJA801-4-35	8.1	304	IE1
1	0.75	80	IJA802-4-24	IJA802-4-35	10.5	304	IE3
1.5	1.1	80	IJA803-4-24	IJA803-4-35	10.7	304	IE1
1.5	1.1	90	IJA90S-4-24	IJA90S-4-35	15	336	IE3
2	1.5	90	IJA90L-4-24	IJA90L-4-35	19	361	IE3
2.4	1.8	90	IJA90L2-4-24	IJA90L2-4-35	19.3	361	IE3
3	2.2	100	IJA100L1-4-24	IJA100L1-4-35	25.4	406	IE3
4	3	100	IJA100L2-4-24	IJA100L2-4-35	31.3	406	IE3
5.5	4	112	IJA112M-4-46	IJA112M-4-59	37	395	IE3
7.5	5.5	132	IJA132S-4-46	IJA132S-4-59	48.5	440	IE3
10	7.5	132	IJA132M-4-46	IJA132M-4-59	60	480	IE3
12.4	9.2	132	IJA132M1-4-46	IJA132M1-4-59	61.2	480	IE3
15	11	160	IJA160M-4-46	IJA160M-4-59	92.5	590	IE3
20	15	160	IJA160L-4-46	IJA160L-4-59	107	645	IE3
25	18.5	180	IJC180M-4-46	IJC180M-4-59	181	652	IE3
30	22	180	IJC180L-4-46	IJC180L-4-59	209	690	IE3
40	30	200	IJC200L-4-47	IJC200L-4-59	284	746	IE3
50	37	225	IJC225S-4-47	IJC225S-4-59	326	780	IE3
60	45	225	IJC225M-4-47	IJC225M-4-59	363	780	IE3
75	55	250	IJC250M-4-47	IJC250M-4-59	442	900	IE3
100	75	280	IJC280S-4-47	IJC280S-4-59	569	961	IE3
125	90	280	IJC280M-4-47	IJC280M-4-59	639	1012	IE3
150	110	315	IJC315S-4-47	IJC315S-4-59	939	1224	IE3
175	132	315	IJC315M-4-47	IJC315M-4-59	1033	1334	IE3
220	160	315	IJC315L1-4-47	IJC315L1-4-59	1126	1334	IE3
270	200	315	IJC315L2-4-47	IJC315L2-4-59	1239	1334	IE3

4 POLES: 1800 RPM *

Please see **MaxMotion Voltage Suffix** on page 19



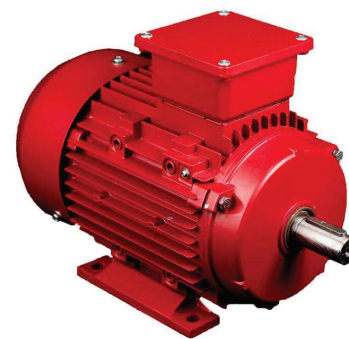
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- Aluminum Construction 56-160 frame, Cast Iron 180-500 frame
- Rotatable/Removable Base 63-160 Frame, Rigid Base 180 larger
- PTC installed on frames 132 and larger
- IEC Design N, with NEMA B Torques
- Terminal Blocks, Stud
- B14 and B5 Flanges are available, see **Accessory** page
- CE Approval
- Rated 60/50Hz



CONTINUED FROM PREVIOUS PAGE

6 POLES: 1200 RPM *

HP	KW	FRAME	MEP CAT#		WEIGHT (KG)	"L" DIMENSIONS (MM)	EFF
			208-230/460/60 - 190-220/380-415/50	575 VAC			
0.12	0.09	63	IJA631-6-24	IJA631-6-35	4.5	217	IE1
0.25	0.18	71	IJA711-6-24	IJA711-6-35	6.5	242	IE1
0.37	0.25	71	IJA712-6-24	IJA712-6-35	6.7	242	IE1
0.50	0.37	80	IJA801-6-24	IJA801-6-35	8.5	304	IE1
0.75	0.55	80	IJA802-6-24	IJA802-6-35	9.4	304	IE1
1	0.75	90	IJA90S-6-24	IJA90S-6-35	14	336	IE3
1.5	1.1	90	IJA90L-6-24	IJA90L-6-35	18	361	IE3
2	1.5	100	IJA100L-6-24	IJA100L-6-35	29.5	406	IE3
3	2.2	112	IJA112M-6-46	IJA112M-6-59	27	395	IE3
4	3	132	IJA132S-6-46	IJA132S-6-59	43	440	IE3
5.5	4	132	IJA132M1-6-46	IJA132M1-6-59	49	480	IE3
7.5	5.5	132	IJA132M2-6-46	IJA132M2-6-59	59	480	IE3
10	7.5	160	IJA160M-6-46	IJA160M-6-59	82	590	IE3
15	11	160	IJA160L-6-46	IJA160L-6-59	118.5	645	IE3
20	15	180	IJC180L-6-46	IJC180L-6-59	197	690	IE3
25	18.5	200	IJC200L1-6-47	IJC200L1-6-59	205	746	IE3
30	22	200	IJC200L2-6-47	IJC200L2-6-59	251	746	IE3
40	30	225	IJC225M-6-47	IJC225M-6-59	308	780	IE3
50	37	250	IJC250M-6-47	IJC250M-6-59	383	900	IE3
60	45	280	IJC280S-6-47	IJC280S-6-59	501	961	IE3
75	55	280	IJC280M-6-47	IJC280M-6-59	573	1012	IE3
100	75	315	IJC315S-6-47	IJC315S-6-59	843	1224	IE3
120	90	315	IJC315M-6-47	IJC315M-6-59	941	1334	IE3
150	110	315	IJC315L1-6-47	IJC315L1-6-59	1017	1334	IE3
175	132	315	IJC315L2-6-47	IJC315L2-6-59	1121	1334	IE3

MaxMotion Voltage Suffix

35 = 6 Lead 333 Delta / 575 Star
59 = 6 Lead 575 Delta / 990 Star

24 = 9 Lead 208-230 2 Star / 460 1 Star
46 = 12 Lead 208-230 2 Delta / 460 1 Delta
47 = 6 Lead 460 Delta / 796 Star

METRIC IE1 & IE3 EFFICIENCIES

304 GRADE STAINLESS STEEL IP66

TENV TOTALLY ENCLOSED NON-VENTILATED TEFC TOTALLY ENCLOSED FAN COOLED



Features:

- IEC Design N with NEMA Design B Torque Curves
- VPI with additional dip and Bake
- Inverter Duty Magnet Wire, 10:1 CT - 20:1 VT
- Meets or exceeds MG1 Part 31
- Service Factor 1.15
- Round Terminal Box with encapsulated lead wires
- Viton Seal installed on both shaft ends with stainless steel shaft slinger
- Bonded Stainless Steel Washers
- IP66 Protection
- Rigid Base
- B14 and B5 Flanges are available, see Motor Accessories



IE1 EFFICIENT 0.25HP to 1.5HP

HP	RPM	FRAME	CATALOGUE NUMBER		WEIGHT LBS.	"C" DIMENSION
			208-230/460/60 - 190/380-415/3/50	575/3/60		
0.25	3600	63	MQS-6312	MPS-6312	17.6	9.51
	1800	63	MQS-6324	MPS-6324	17.6	9.51
	1200	71	MQS-7116	MPS-7116	20.09	9.83
0.33	3600	63	MQS-6322	MPS-6322	17.6	9.51
	1800	71	MQS-7114	MPS-7114	18.7	9.83
	1200	71	MQS-7126	MPS-7126	25.3	9.83
0.5	3600	71	MQS-7112	MPS-7112	25.3	9.83
	1800	71	MQS-7124	MPS-7124	23.1	9.83
	1200	80	MQS-8016	MPS-8016	38.5	11.99
0.75	3600	71	MQS-7122	MPS-7122	28.6	11
	1800	80	MQS-8014	MPS-8014	38.5	11.99
1	3600	80	MQS-8012	MPS-8012	34.1	10.81
	1800	80	MQS-8024	MPS-8024	44	12.77
1.5	3600	80	MQS-8022FC	MPS-8022FC	39.6	13.59

IE3 EFFICIENT 1.0HP to 10HP

1	1200	90	MQSP-90S6FC	MPSP-90S6FC	44	14.54
1.5	1800	90	MQSP-90S4FC	MPSP-90S4FC	48.4	13.56
	1200	90	MQSP-90L6FC	MPSP-90L6FC	57.2	16.31
2	3600	90	MQSP-90S2FC	MPSP-90S2FC	48.4	14.54
	1800	90	MQSP-90L4FC	MPSP-90L4FC	59.4	16.31
	1200	100	MQSP-100L6FC	MPSP-100L6FC	83.6	17.1
3	3600	90	MQSP-90L2FC	MPSP-90L2FC	64.9	16.31
	1800	100	MQSP-100L14FC	MPSP-100L14FC	74.8	17.1
	1200	112	MQSP-112M6FC	MPSP-112M6FC	111.1	19.26
4	3600	100	MQSP-100L2FC	MPSP-100L2FC	81.4	17.1
	1800	100	MQSP-100L24FC	MPSP-100L24FC	92.4	17.1
5.5	3600	112	MQSP-112M2FC	MPSP-112M2FC	99	18.47
	1800	112	MQSP-112M4FC	MPSP-112M4FC	111.1	19.26
7.5	3600	132	MQSP-132S12FC	MPSP-132S12FC	145.2	20.63
	1800	132	MQSP-132S4FC	MPSP-132S4FC	173.8	20.6
10	3600	132	MQSP-132S22FC	MPSP-132S22FC	171.6	22.2
	1800	132	MQSP-132M4FC	MPSP-132M4FC	200.2	22.2