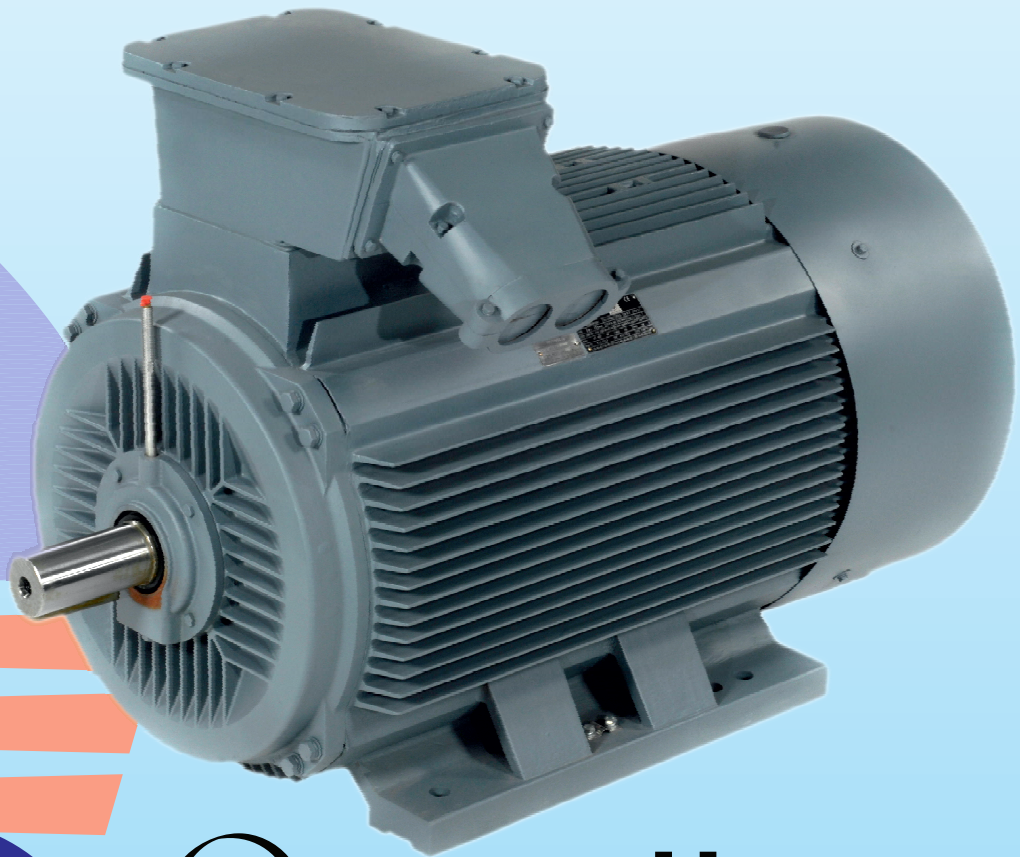



REGAL

MARATHON ELECTRIC MOTORS BASIC TECHNICAL DATA



HJA
SERIES
HJN

**marathon**[®]
electric
IEC METRIC MOTORS

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Material	TYPE	Output	Output	Frame Size	Speed	Speed	Rated current 50Hz				Power Factor cosφ	Efficiency			Rated torque Nm	Ratio			Weight kg	
		50Hz kW	60Hz kW		50Hz rpm	60Hz rpm	380V A	400V A	415V A	460V A		Class	100% Load %	75% Load %		50% Load %	Starting current	Starting torque		B/down torque
3000/3600rpm, 2-pole, 50/60Hz, IP55, Insulation F/B																				
HJN 80M1-2		0.75	0.86	80M	2825	3395	1.78	1.69	1.62	1.68	0.83	IE2	77.4	77.4	76.1	2.5	6.26	2.66	2.80	16
HJN 80M2-2		1.1	1.27	80M	2825	3395	2.49	2.37	2.29	2.38	0.84	IE2	79.6	79.6	78.4	3.7	6.30	2.64	2.75	17
HJN 90S-2		1.5	1.73	90S	2840	3405	3.34	3.17	3.06	3.31	0.84	IE2	81.3	81.1	78.1	5.0	6.97	2.77	2.98	23
HJN 90L-2		2.2	2.53	90L	2840	3405	4.73	4.49	4.33	4.69	0.85	IE2	83.2	83.1	80.5	7.4	6.99	3.19	3.09	26
HJN 100L-2		3	3.45	100L	2865	3475	6.19	5.88	5.67	5.88	0.87	IE2	84.6	84.6	84.2	10.0	7.50	3.43	3.13	34
HJN 112M-2		4	4.6	112M	2865	3420	8.05	7.65	7.37	7.98	0.88	IE2	85.8	85.6	82.9	13.4	7.78	2.69	3.25	42
HJN 132S1-2		5.5	6.3	132S	2905	3490	10.9	10.4	10.0	10.3	0.88	IE2	87.0	87.0	85.1	18.1	7.81	2.23	3.08	59
HJN 132S2-2		7.5	8.6	132S	2900	3480	14.7	14.0	13.5	13.9	0.88	IE2	88.1	87.9	86.4	24.7	7.73	2.27	3.22	62
HJN 160M1-2		11	12.7	160M	2940	3535	21.0	20.0	19.2	20.0	0.89	IE2	89.4	90.0	87.5	35.7	7.46	2.38	2.89	117
HJN 160M2-2		15	17.3	160M	2940	3535	28.4	26.9	26.0	27.0	0.89	IE2	90.3	90.8	88.3	48.7	7.50	2.64	3.02	127
HJN 160L-2		18.5	21.3	160L	2940	3535	34.4	32.6	31.5	32.7	0.9	IE2	90.9	91.3	88.8	60.1	7.50	2.86	3.14	149
HJN 180M-2		22	24.5	180M	2950	3540	40.6	38.6	37.3	37.5	0.9	IE2	91.3	91.3	90.4	71.0	8.41	2.97	3.42	188
HJN 200L1-2		30	33.5	200L	2950	3540	55.1	52.3	50.4	50.8	0.9	IE2	92.0	92.1	91.0	97.1	7.28	2.47	3.12	230
HJN 200L-2		37	41.5	200L	2950	3540	67.5	64.2	61.8	62.6	0.9	IE2	92.5	92.7	91.8	120	7.76	2.59	3.26	245
HJN 225M-2		45	52	225M	2965	3555	81.8	77.7	74.9	77.7	0.9	IE2	92.9	92.8	92.0	145	7.80	2.78	3.40	330
HJN 250M-2		55	62	250M	2970	3560	99.5	94.5	91.2	94.5	0.9	IE2	93.2	92.8	91.5	177	7.80	2.79	3.48	445
HJN 280S-2		75	84	280S	2970	3560	135	128	124	111	0.9	IE2	93.8	93.6	92.2	241	7.36	2.59	3.11	565
HJN 280M-2		90	101	280M	2970	3560	160	152	146	132	0.91	IE2	94.1	93.8	92.4	289	7.80	3.22	3.24	645
HJN 315S-2		110	127	315S	2975	3570	195	185	178	185	0.91	IE2	94.3	93.8	92.5	353	7.77	2.32	3.54	920
HJN 315M-2		132	152	315M	2975	3570	233	221	213	221	0.91	IE2	94.6	94.3	93.2	424	7.89	2.43	3.33	970
HJN 315L1-2		160	184	315L	2975	3570	282	268	258	268	0.91	IE2	94.8	94.6	93.5	513	7.43	2.27	3.27	1170
HJN 315L2-2		200	230	315L	2970	3560	352	334	322	334	0.91	IE2	95.0	94.8	93.9	643	8.00	3.05	3.84	1200
HJN 355M-2		250	280	355M	2985	3580	444	422	407	411	0.9	IE2	95.0	94.5	93.3	800	6.77	2.07	3.14	1690
HJN 355L-2		280	314	355L	2985	3580	498	473	456	461	0.9	IE2	95.0	94.4	93.1	896	6.50	2.00	2.50	1820
HJN 355L-2		315	353	355L	2980	3575	560	532	513	518	0.9	IE2	95.0	94.5	93.2	1009	7.27	2.38	3.28	1870
HJN 355LY-2		355	398	355L	2980	3575	631	599	578	584	0.9	IE2	95	94.5	93.2	1138	8.0	2.2	2.5	1900
1500/1750rpm, 4-pole, 50/60Hz, IP55, Insulation F/B																				
HJN 80M2-4		0.75	0.86	80M	1415	1690	1.91	1.81	1.75	1.81	0.75	IE2	79.6	78.7	75.3	5.1	5.84	3.11	3.27	19
HJN 90S-4		1.1	1.3	90S	1395	1680	2.67	2.53	2.44	2.65	0.77	IE2	81.4	81.2	77.8	7.5	6.03	2.84	3.01	23
HJN 90L-4		1.5	1.7	90L	1395	1680	3.48	3.31	3.19	3.46	0.79	IE2	82.8	82.6	78.9	10.2	6.21	3.11	2.98	29
HJN 100L1-4		2.2	2.5	100L	1425	1720	4.89	4.65	4.48	4.60	0.81	IE2	84.3	82.8	76.5	14.7	7.50	3.20	3.63	35
HJN 100L2-4		3	3.5	100L	1425	1710	6.42	6.10	5.88	6.19	0.83	IE2	85.5	84.6	83.1	20.1	7.23	3.06	3.52	39
HJN 112M-4		4	4.6	112M	1440	1715	8.56	8.13	7.84	8.49	0.82	IE2	86.6	86.3	83.9	26.7	7.05	2.21	2.99	45
HJN 132S-4		5.5	6.3	132S	1450	1745	11.5	10.9	10.5	10.9	0.83	IE2	87.7	87.0	85.2	36.2	7.80	2.51	3.13	66
HJN 132M-4		7.5	8.6	132M	1450	1745	15.3	14.5	14.0	14.5	0.84	IE2	88.7	87.5	86.0	49.4	7.81	2.58	3.07	80
HJN 160M-4		11	12.7	160M	1465	1765	22.1	21.0	20.3	20.9	0.84	IE2	89.8	90.0	88.5	71.7	7.30	2.34	2.69	122
HJN 160L-4		15	17.3	160L	1465	1765	29.6	28.1	27.1	28.2	0.85	IE2	90.6	90.5	89.0	97.7	7.69	2.42	2.64	140
HJN 180M-4		18.5	21.3	180M	1470	1765	35.8	34.0	32.8	34.1	0.86	IE2	91.2	91.2	90.5	120	7.65	2.41	3.57	181
HJN 180L-4		22	25.3	180L	1470	1765	42.4	40.3	38.9	40.1	0.86	IE2	91.6	91.6	90.9	143	7.74	2.62	3.34	196
HJN 200L-4		30	34.5	200L	1470	1764	57.4	54.6	52.6	54.6	0.86	IE2	92.3	92.6	91.9	195	7.32	2.28	3.03	235
HJN 225S-4		37	42.5	225S	1480	1775	69.7	66.2	63.8	66.2	0.87	IE2	92.7	92.6	91.9	240	7.31	2.51	3.10	306
HJN 225M-4		45	52	225M	1480	1775	84.4	80.2	77.3	80.2	0.87	IE2	93.1	93.0	92.7	292	6.94	2.51	2.87	343
HJN 250M-4		55	63	250M	1480	1775	103.0	97.6	94.1	97.6	0.87	IE2	93.5	93.5	92.8	355	7.22	2.18	3.07	455
HJN 280S-4		75	86	280S	1480	1775	139	132	128	115	0.87	IE2	94.0	93.8	92.6	484	7.55	2.54	3.03	620
HJN 280M-4		90	104	280M	1480	1775	167	159	153	138	0.87	IE2	94.2	94.0	92.8	581	7.75	2.71	3.02	695
HJN 315S-4		110	127	315S	1480	1775	201	191	184	191	0.88	IE2	94.5	94.3	93.5	709	7.04	2.28	3.23	925
HJN 315M-4		132	152	315M	1480	1775	241	229	220	229	0.88	IE2	94.7	94.4	93.5	851	6.67	2.07	3.13	1010
HJN 315L1-4		160	184	315L	1480	1775	287	273	264	273	0.89	IE2	94.9	94.6	93.7	1032	7.28	2.32	3.51	1080
HJN 315L2-4		200	230	315L	1480	1775	359	341	329	341	0.89	IE2	95.1	94.8	93.9	1290	7.30	2.34	3.32	1200
HJN 355M-4		250	288	355M	1485	1785	449	426	411	427	0.89	IE2	95.1	94.7	93.7	1608	7.88	2.27	3.47	1720
HJN 355L-4		280	322	355L	1485	1785	497	472	455	472	0.9	IE2	95.1	94.7	93.8	1801	7.90	2.10	2.60	1830
HJN 355L-4		315	362	315L	1485	1785	559	531	512	531	0.9	IE2	95.1	94.7	93.8	2026	7.20	2.08	3.13	1920
HJN 355LY-4		355	408	355L	1485	1785	630	599	577	598	0.9	IE2	95.1	94.8	93.9	2283	7.61	2.19	3.21	2050
1000/1200rpm, 6-pole, 50/60Hz, IP55, Insulation F/B																				
HJN 90S-6		0.75	0.86	90S	920	1100	2.09	1.98	1.91	2.07	0.72	IE2	75.9	75.6	72.1	7.8	4.27	2.22	2.72	24
HJN 90L-6		1.1	1.27	90L	920	1100	2.93	2.78	2.68	2.91	0.73	IE2	78.1	77.8	74.8	11.4	5.03	2.93	3.06	26
HJN 100L-6		1.5	1.73	100L	920	1130	3.76	3.57	3.44	3.58	0.76	IE2	79.8	79.3	77.2	15.6	6.03	2.64	3.43	34
HJN 112M-6		2.2	2.53	112M	950	1125	5.38	5.11	4.92	5.33	0.76	IE2	81.8	81.5	78.8	22.3	5.83	2.78	3.23	41
HJN 132S-6		3	3.45	132S	960	1160	7.20	6.84	6.59	6.84	0.76	IE2	83.3	83.1	80.6	29.8	6.64	2.26	3.06	58
HJN 132M1-6		4	4.6	132S	965	1165	9.45	8.98	8.66	8.98	0.76	IE2	84.6	84.0	81.2	39.6	7.69	2.44	3.32	71
HJN 132M2-6		5.5	6.3	132M	965	1165	12.6	12.0	11.6	11.9	0.77	IE2	86.0	84.8	82.0	54.4	7.24	2.30	3.21	78
HJN 160M-6		7.5	8.6	160M	970	1160	17.0	16.1	15.5	15.9	0.77	IE2	87.2	87.1	84.2	73.8	7.66	2.42	3.57	119
HJN 160L-6		11	12.7	160L	970	1160	24.2	22.9	22.1	22.8	0.78	IE2	88.7	88.7	85.3	108.3	7.66	2.41	3.36	139
HJN 180L-6		15	18	180L	975	1175	31.4	29.8	28.7	31.1	0.81	IE2	89.7	89.7	88.0	147.0	6.99	2.62	3.04	190
HJN 200L1-6		18.5	22	200L	980	1176	38.4	36.5	35.2	37.7	0.81	IE2	90.4	90.6	89.3	180	7.40	2.43	3.09	22

Material	TYPE	Output		Frame Size	Speed		Rated current 50Hz				60Hz	Power Factor cosφ	Efficiency				Rated torque Nm	Ratio			Weight kg
		50Hz kW	60Hz kW		50Hz rpm	60Hz rpm	380V A	400V A	415V A	460V A			Class	100% Load %	75% Load %	50% Load %		Starting current	Starting torque	B/down torque	
3000/3600rpm, 2-pole, 50/60Hz, IP55, Insulation F/B																					
	HJA 80K-2	0.75	0.86	80M	2825	3395	1.78	1.69	1.63	1.76	0.83	IE2	77.4	77.4	76.1	2.5	6.26	2.66	2.80	10	
	HJA 80G-2	1.1	1.27	80M	2825	3395	2.49	2.37	2.28	2.47	0.84	IE2	79.6	79.6	78.4	3.7	6.30	2.64	2.75	11	
	HJA 90S-2	1.5	1.73	90S	2840	3410	3.34	3.17	3.06	3.31	0.84	IE2	81.3	81.1	78.1	5.0	6.97	2.77	2.98	13	
	HJA 90L-2	2.2	2.53	90L	2840	3410	4.73	4.49	4.33	4.69	0.85	IE2	83.2	83.1	80.5	7.4	6.99	3.00	3.09	15	
	HJA 100L-2	3	3.45	100L	2865	3475	6.19	5.88	5.67	6.14	0.87	IE2	84.6	84.6	84.2	10.0	7.50	3.43	3.13	22	
	HJA 112M-2	4	4.6	112M	2865	3485	8.05	7.64	7.37	7.98	0.88	IE2	85.8	85.6	82.9	13.4	7.78	2.69	3.25	27	
	HJA 132S-2	5.5	6.3	132S	2905	3490	10.9	10.37	9.99	10.9	0.88	IE2	87.0	87.0	85.1	18.1	7.81	2.23	3.08	41	
	HJA 132SX-2	7.5	8.6	132S	2900	3480	14.7	13.96	13.46	14.6	0.88	IE2	88.1	87.9	86.4	24.7	7.73	2.27	3.22	45	
1500/1750rpm, 4-pole, 50/60Hz, IP55, Insulation F/B																					
	HJA 80G-4	0.75	0.86	80M	1415	1690	1.91	1.81	1.75	1.89	0.75	IE2	79.6	78.7	75.3	5.1	5.84	3.11	3.27	11	
	HJA 90S-4	1.1	1.3	90S	1395	1675	2.67	2.53	2.44	2.64	0.77	IE2	81.4	81.2	77.8	7.5	6.03	2.84	3.01	13.5	
	HJA 90L-4	1.5	1.7	90L	1395	1675	3.49	3.31	3.19	3.44	0.79	IE2	82.8	82.6	78.9	10.2	6.21	2.98	3.11	16	
	HJA 100L-4	2.2	2.5	100L	1425	1720	4.89	4.65	4.48	4.85	0.81	IE2	84.3	82.8	76.5	14.7	7.50	3.20	3.63	21	
	HJA 100LX-4	3	3.5	100L	1425	1720	6.42	6.1	5.88	6.37	0.83	IE2	85.5	84.6	83.1	20.1	7.23	3.06	3.52	24	
	HJA 112M-4	4	4.6	112M	1440	1740	8.56	8.13	7.84	8.48	0.82	IE2	86.6	86.3	83.9	26.7	7.18	2.53	3.18	30	
	HJA 132S-4	5.5	6.3	132S	1450	1745	11.5	10.91	10.51	11.4	0.83	IE2	87.7	87.0	85.2	36.2	7.80	2.51	3.13	42	
	HJA 132M-4	7.5	8.6	132M	1450	1745	15.3	14.53	14.00	15.1	0.84	IE2	88.7	87.5	86.0	49.4	7.81	2.58	3.07	55	
1000/1200rpm, 6-pole, 50/60Hz, IP55, Insulation F/B																					
	HJA 90S-6	0.75	0.86	90S	920	1105	2.09	1.98	1.91	2.07	0.72	IE2	75.9	75.6	72.1	7.8	4.27	2.22	2.72	12	
	HJA 90L-6	1.1	1.27	90L	920	1105	2.93	2.78	2.68	2.91	0.73	IE2	78.1	77.8	74.8	11.4	5.03	2.53	2.86	14	
	HJA 100L-6	1.5	1.73	100L	920	1130	4	3.57	3.44	3.73	0.76	IE2	79.8	79.3	77.2	15.6	6.03	2.64	3.43	21	
	HJA 112M-6	2.2	2.53	112M	950	1145	5.38	5.11	4.92	5.33	0.76	IE2	81.8	81.5	78.8	22.3	6.09	2.70	3.19	29	
	HJA 132S-6	3	3.45	132S	960	1160	7.3	6.84	6.59	7.14	0.76	IE2	83.3	83.1	80.6	29.8	6.64	2.26	3.06	42	
	HJA 132M-6	4	4.6	132S	965	1165	9.5	8.98	8.66	9.37	0.76	IE2	84.6	84.0	81.2	39.6	7.69	2.44	3.32	47	
	HJA 132MX-6	5.5	6.3	132M	965	1165	13	12	11.6	12.5	0.77	IE2	86.0	84.8	82.0	54.4	7.24	2.30	3.21	54	

Aluminium motors
Cast iron motors

Standard voltages

Up to 2.2kW inclusive – 230V Delta / 400V Star ± 10% 3ph 50Hz
– 460V Star ± 10% 3ph 60Hz

From 3kW inclusive – 400V Delta / 690V Star ± 10% 3ph 50Hz
– 460V Delta ± 10% 3ph 60Hz

Insulation class F/B – inverter resistant
Tropical windings
Ambient temperature -20°C to +40°C
Altitude up to 1000m
Continuous duty cycle - S1

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