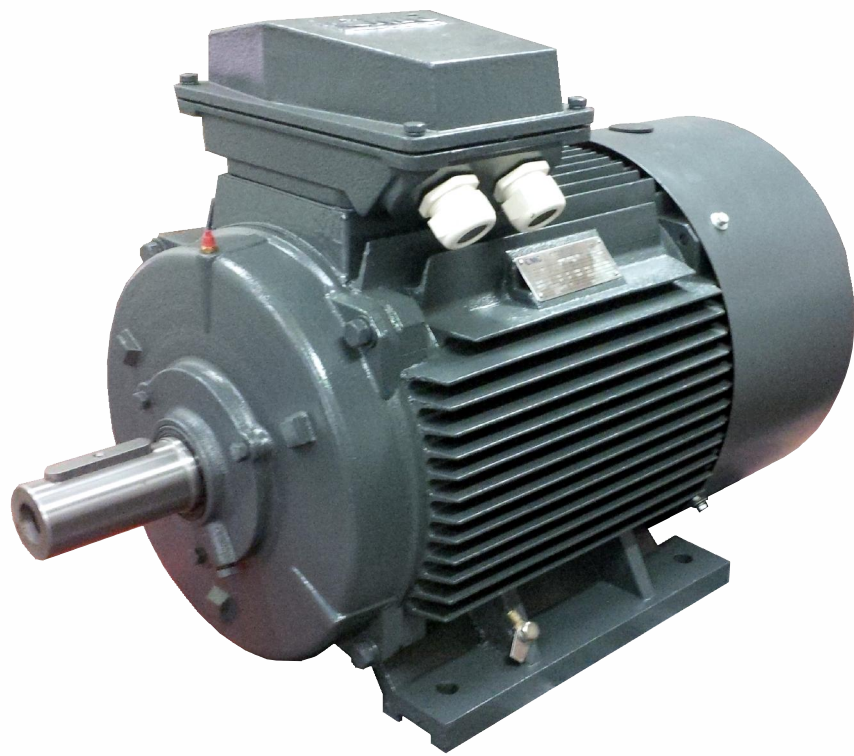


marathon™

Electric Motors

MAR Cast Iron Motors



A Regal Brand

REGAL

Material	TYPE	Output	Output	Speed	Speed	Frame Size	Rated current 50Hz			Power Factor	Efficiency				Rated torque	Ratio			Weight kg		
		50Hz kW	60Hz kW	50Hz rpm	60Hz rpm		380V A	400V A	415V A	cos	Class	100% Load %	75% Load %	50% Load %	Nm	Starting current	Starting torque	B/down torque			
2pole, 3000rpm, IP55, insulation class F/B						CAST IRON FRAME															
	MAR 711-2	0.37	0.43	2740	3288	71M	0.99	0.94	0.91	0.81	n/a	70.0	70.0	68.6	1.3	6.1	2.2	2.2	13.5		
	MAR 712-2	0.55	0.63	2740	3288	71M	1.4	1.33	1.28	0.82	n/a	73.0	73.0	71.5	1.9	6.1	2.2	2.3	14.2		
	MAR 80A-2	0.75	0.86	2840	3408	80M	1.9	1.81	1.74	0.83	IE1	72.1	72.1	70.7	2.5	6.1	2.3	2.4	14.8		
	MAR 80B-2	1.1	1.27	2840	3408	80M	2.65	2.52	2.43	0.84	IE1	75.0	75.0	73.5	3.7	6.3	2.4	2.4	15.5		
	MAR 90S-2	1.5	1.73	2840	3408	90S	3.51	3.34	3.22	0.84	IE1	77.2	77.2	75.7	5.0	6.5	2.3	2.3	19.5		
	MAR 90L-2	2.2	2.53	2840	3408	90L	4.93	4.69	4.52	0.85	IE1	79.7	79.7	78.1	7.4	6.8	2.4	2.5	23		
	MAR 100L-2	3	3.45	2860	3432	100L	6.43	6.11	5.89	0.87	IE1	81.5	81.5	79.9	10.0	6.9	2.4	2.4	30.5		
	MAR 112M-2	4	4.6	2880	3456	112M	8.31	7.9	7.61	0.88	IE1	83.1	83.1	81.4	13.3	7	2.3	2.4	38.6		
	MAR 132SA-2	5.5	6.3	2900	3480	132S	11.2	10.7	10.3	0.88	IE1	84.7	84.7	83.0	18.1	7.2	2.2	2.3	60		
	MAR 132SB-2	7.5	8.6	2900	3480	132S	15.1	14.3	13.8	0.88	IE1	86.0	86.0	84.3	24.7	6.9	2.3	2.4	67		
	MAR 160MA-2	11	12.7	2930	3516	160M	21.4	20.4	19.6	0.89	IE1	87.6	87.6	85.8	35.9	6.8	2.2	2.3	105.1		
	MAR 160MB-2	15	17.3	2930	3516	160M	28.9	27.4	26.4	0.89	IE1	88.7	88.7	86.9	48.9	7	2.3	2.3	115		
	MAR 160L-2	18.5	21.3	2930	3516	160L	35	33.2	32	0.90	IE1	89.3	89.3	87.5	60.3	7	2.4	2.5	130.2		
	MAR 180M-2	22	25.3	2940	3528	180M	41.3	39.2	37.8	0.90	IE1	89.9	89.9	88.1	71.5	6.9	2.3	2.3	160.5		
	MAR 200LA-2	30	34.5	2950	3540	200L	55.8	53	51.1	0.90	IE1	90.7	90.7	88.9	97.1	7.1	2.2	2.3	210		
	MAR 200LB-2	37	43	2950	3540	200L	68.5	65.1	62.7	0.90	IE1	91.2	91.2	89.4	119.8	7.1	2.3	2.4	222.5		
	MAR 225M-2	45	52	2960	3552	225M	82.8	78.7	75.9	0.90	IE1	91.7	91.7	89.9	145.2	6.8	2.3	2.5	270		
	MAR 250M-2	55	63	2965	3558	250M	101	95.8	92.3	0.90	IE1	92.1	92.1	90.3	177.2	6.8	2.1	2.2	355		
	MAR 280S-2	75	86	2970	3564	280S	137	130	125	0.90	IE1	92.7	92.7	90.8	241.2	7.1	2.3	2.3	482		
	MAR 280M-2	90	104	2970	3564	280M	162	153	148	0.91	IE1	93.0	93.0	91.1	289.4	7.1	2.2	2.4	552		
	MAR 315S-2	110	127	2975	3570	315S	197	187	180	0.91	IE1	93.3	93.3	91.4	353.1	7.1	2.2	2.3	875		
	MAR 315MA-2	132	152	2975	3570	315M	236	224	216	0.91	IE1	93.5	93.5	91.6	423.7	6.9	2.3	2.4	960		
	MAR 315LA-2	160	184	2975	3570	315L	282	268	258	0.92	IE1	93.8	93.8	91.9	513.6	7	2.2	2.3	1025		
	MAR 315LB-2	200	230	2975	3570	315L	351	334	322	0.92	IE1	94.0	94.0	92.1	642.0	7	2.2	2.3	1080		
	MAR 315LC-2	220	253	2975	3570	315L	387	367	354	0.92	IE1	94.0	94.0	92.1	706.2	7	2.2	2.3	1100		
	MAR 355M-2	250	288	2980	3576	355M	439	417	402	0.92	IE1	94.0	94.0	92.1	801.2	7	2.2	2.3	1850		
	MAR 355L-2	315	362	2980	3576	355L	553	526	507	0.92	IE1	94.0	94.0	92.1	1009.5	7	2.2	2.3	2200		
4pole, 1500rpm, IP55, insulation class F/B						CAST IRON FRAME															
	MAR 711-4	0.25	0.25	1330	1596	71M	0.79	0.75	0.72	0.74	n/a	65.0	65.0	63.7	1.8	5.2	2.1	2.2	13.5		
	MAR 712-4	0.37	0.37	1330	1596	71M	1.12	1.06	1.02	0.75	n/a	67.0	67.0	65.7	2.7	5.2	2.1	2.2	14		
	MAR 80A-4	0.55	0.55	1390	1668	80M	1.57	1.49	1.43	0.75	n/a	71.1	71.1	69.7	3.8	5.2	2.4	2.3	14.5		
	MAR 80B-4	0.75	0.75	1390	1668	80M	2.08	1.98	1.9	0.76	IE1	72.1	72.1	70.7	5.2	6.1	2.3	2.3	15		
	MAR 90S-4	1.1	1.1	1390	1668	90S	2.89	2.75	2.65	0.77	IE1	75.0	75.0	73.5	7.6	6.3	2.3	2.4	21.5		
	MAR 90L-4	1.5	1.5	1390	1668	90L	3.74	3.55	3.42	0.79	IE1	77.2	77.2	75.7	10.3	6.1	2.4	2.4	23		
	MAR 100LA-4	2.2	2.2	1390	1668	100L	5.18	4.92	4.74	0.81	IE1	79.7	79.7	78.1	15.1	6.5	2.3	2.4	31		
	MAR 100LB-4	3	3	1410	1692	100L	6.82	6.48	6.25	0.82	IE1	81.5	81.5	79.9	20.3	6.5	2.5	2.5	32.5		
	MAR 112M-4	4	4	1410	1692	112M	8.92	8.47	8.17	0.82	IE1	83.1	83.1	81.4	27.1	7	2.4	2.4	38		
	MAR 132S-4	5.5	5.5	1435	1722	132S	11.9	11.3	10.9	0.83	IE1	84.7	84.7	83.0	36.6	7	2.3	2.4	61.5		
	MAR 132M-4	7.5	7.5	1440	1728	132M	15.8	15	14.4	0.84	IE1	86.0	86.0	84.3	49.7	7	2.3	2.3	72.5		
	MAR 160M-4	11	11	1440	1728	160M	22.7	21.6	20.8	0.84	IE1	87.6	87.6	85.8	73.0	6.5	2.2	2.3	115		
	MAR 160L-4	15	15	1460	1752	160L	30.2	28.7	27.7	0.85	IE1	88.7	88.7	86.9	98.1	7.2	2.2	2.2	128		
	MAR 180M-4	18.5	18.5	1460	1752	180M	36.6	34.8	33.5	0.86	IE1	89.3	89.3	87.5	121.0	7.5	2.2	2.3	160		
	MAR 180L-4	22	22	1470	1764	180L	43.2	41.1	39.6	0.86	IE1	89.9	89.9	88.1	142.9	7.2	2.2	2.3	177		
	MAR 200L-4	30	30	1470	1764	200L	58.4	55.5	53.5	0.86	IE1	90.7	90.7	88.9	194.9	7.1	2.3	2.4	238		
	MAR 225S-4	37	37	1470	1764	225S	70.9	67.3	64.9	0.87	IE1	91.2	91.2	89.4	240.4	7.1	2.2	2.2	250		
	MAR 225M-4	45	45	1475	1770	225M	85.7	81.4	78.5	0.87	IE1	91.7	91.7	89.9	291.4	6.9	2.3	2.3	280		
	MAR 250M-4	55	55	1475	1770	250M	104	99.1	95.5	0.87	IE1	92.1	92.1	90.3	356.1	6.8	2.1	2.2	387		
	MAR 280S-4	75	75	1480	1776	280S	141	134	129	0.87	IE1	92.7	92.7	90.8	484.0	7.5	2.2	2.2	498		
	MAR 280M-4	90	90	1480	1776	280M	169	161	155	0.87	IE1	93.0	93.0	91.1	580.7	7.2	2.1	2.2	550		
	MAR 315S-4	110	110	1480	1776	315S	204	193	186	0.88	IE1	93.3	93.3	91.4	709.8	6.9	2.2	2.2	870		
	MAR 315MA-4	132	132	1480	1776	315M	244	232	223	0.88	IE1	93.5	93.5	91.6	851.8	6.9	2.1	2.2	960		
	MAR 315LA-4	160	160	1480	1776	315L	291	277	267	0.89	IE1	93.8	93.8	91.9	1032.4	6.7	2.1	2.2	1010		
	MAR 315LB-4	200	200	1480	1776	315L	263	345	333	0.89	IE1	94.0	94.0	92.1	1290.5	6.9	2.1	2.2	1070		
	MAR 315LC-4	220	220	1480	1776	315L	400	380	366	0.89	IE1	94.0	94.0	92.1	1419.6	6.9	2.1	2.2	1100		
	MAR 355M-4	250	250	1490	1788	355M	449	427	411	0.90	IE1	94.0	94.0	92.1	1602.3	6.9	2.2	2.2	1660		
	MAR 355L-4	315	315	1490	1788	355L	566	537	518	0.90	IE1	94.0	94.0	92.1	2019.0	6.9	2.1	2.2	1850		

Three phase, squirrel cage TEFC frame sizes 71 to 355 with CENELEC frame allocation as standard.
They combine excellent electrical characteristics with robust strength of cast iron, class F insulation and IP55 rating.

Other Voltages available: 380 , 400 , 525 , 415 , 440 , 690 , 1000 , 1100 V

Frequency: 50 & 60 Hz

Standard design speed: 2 , 4 , 6 , 8 pole

Material	TYPE	Output	Output	Speed	Speed	Frame Size	Rated current 50Hz			Power Factor	Efficiency				Rated torque	Ratio			Weight kg
		50Hz kW	60Hz kW	50Hz rpm	60Hz rpm		380V A	400V A	415V A	cos	Class	100% Load %	75% Load %	50% Load %	Starting current	Starting torque	B/down torque		
6pole, 1000rpm, IP55, insulation class F/B						CAST IRON FRAME													
	MAR 711-6	0.18	0.21	850	1020	71M	0.74	0.7	0.68	0.66	n/a	56.0	56.0	54.9	2.0	4.4	1.9	2.0	13.5
	MAR 712-6	0.25	0.29	850	1020	71M	0.947	0.9	0.87	0.68	n/a	59.0	59.0	57.8	2.8	4.0	1.9	2.0	14
	MAR 80MA-6	0.37	0.43	885	1062	80M	1.3	1.23	1.19	0.70	n/a	62.0	62.0	60.8	4.0	4.7	1.9	2.0	14.5
	MAR 80MB-6	0.55	0.63	885	1062	80M	1.79	1.7	1.63	0.72	n/a	65.0	65.0	63.7	5.9	4.7	1.9	2.1	15
	MAR 90S-6	0.75	0.86	910	1092	90S	2.26	2.15	2.07	0.72	IE1	70.0	70.0	68.6	7.9	5.5	2.1	2.1	17.5
	MAR 90L-6	1.1	1.27	910	1092	90L	3.14	2.98	2.88	0.73	IE1	72.9	72.9	71.4	11.5	5.5	2.0	2.1	20
	MAR 100L-6	1.5	1.73	920	1104	100L	4.04	3.84	3.7	0.75	IE1	75.2	75.2	73.7	15.6	6.0	2.0	2.0	29
	MAR 112M-6	2.2	2.53	935	1122	112M	5.66	5.38	5.18	0.76	IE1	77.7	77.7	76.1	22.5	6.0	2.2	2.2	38
	MAR 132S-6	3	3.45	960	1152	132S	7.52	7.15	6.89	0.76	IE1	79.7	79.7	78.1	29.8	6.5	2.0	2.1	59
	MAR 132MA-6	4	4.6	960	1152	132M	9.82	9.33	9	0.76	IE1	81.4	81.4	79.8	39.8	6.5	2.0	2.1	68
	MAR 132MB-6	5.5	6.3	960	1152	132M	13.1	12.4	12	0.77	IE1	83.1	83.1	81.4	54.7	6.5	2.2	2.2	77
	MAR 160M-6	7.5	8.6	970	1164	160M	17.5	16.6	16	0.77	IE1	84.7	84.7	83.0	73.8	6.7	2.0	2.1	113
	MAR 160L-6	11	12.7	970	1164	160L	24.8	23.6	22.7	0.78	IE1	86.4	86.4	84.7	108.3	6.7	2.2	2.3	140
	MAR 180L-6	15	17.3	970	1164	180L	32.1	30.5	29.4	0.81	IE1	87.7	87.7	85.9	147.7	6.7	2.1	2.2	170
	MAR 200LA-6	18.5	21.3	980	1176	200L	39.2	37.2	35.9	0.81	IE1	88.6	88.6	86.8	180.3	6.7	2.2	2.2	191
	MAR 200LB-6	22	25.3	980	1176	200L	45.1	42.9	41.3	0.83	IE1	89.2	89.2	87.4	214.4	6.7	2.1	2.2	218
	MAR 225M-6	30	34.5	980	1176	225M	60.2	57.1	55.1	0.84	IE1	90.2	90.2	88.4	292.3	7.0	2.1	2.1	255
	MAR 250M-6	37	43	980	1176	250M	72	68.4	65.9	0.86	IE1	90.8	90.8	89.0	360.6	7.0	2.1	2.2	358
	MAR 280S-6	45	52	980	1176	280S	87	82.6	79.6	0.86	IE1	91.4	91.4	89.6	438.5	7.0	2.0	2.1	475
	MAR 280M-6	55	63	980	1176	280M	106	100	96.8	0.86	IE1	91.9	91.9	90.1	536.0	7.0	2.1	2.2	520
	MAR 315S-6	75	86	985	1182	315S	143	136	131	0.86	IE1	92.6	92.6	90.7	727.2	7.0	2.1	2.2	850
	MAR 315MA-6	90	104	985	1182	315M	171	163	157	0.86	IE1	92.9	92.9	91.0	872.6	6.7	2.0	2.1	930
	MAR 315LA-6	110	127	985	1182	315L	208	198	191	0.86	IE1	93.3	93.3	91.4	1066.5	6.7	2.0	2.1	995
	MAR 315LB-6	132	152	985	1182	315L	247	234	226	0.87	IE1	93.5	93.5	91.6	1279.8	6.7	2.0	2.1	1030
	MAR 355MA-6	160	184	985	1182	355M	295	280	270	0.88	IE1	93.8	93.8	91.9	1551.3	6.7	1.9	2.0	1500
	MAR 355MB-6	200	230	985	1182	355M	367	349	336	0.88	IE1	94.0	94.0	92.1	1939.1	6.7	1.9	2.0	1550
	MAR 355L-6	250	288	985	1182	355L	459	436	420	0.88	IE1	94.0	94.0	92.1	2423.9	6.7	1.9	2.0	1650
8pole, 750rpm, IP55, insulation class F/B						CAST IRON FRAME													
	MAR 80MA-8	0.18	0.21	645	774	80M	0.879	0.84	0.81	0.61	n/a	51.0	51.0	50.0	2.7	3.3	1.8	1.9	15
	MAR 80MB-8	0.25	0.29	645	774	80M	1.15	1.1	1.06	0.61	n/a	54.0	54.0	52.9	3.7	3.3	1.8	1.9	17
	MAR 90S-8	0.37	0.43	670	804	90S	1.49	1.41	1.36	0.61	n/a	62.0	62.0	60.8	5.3	4.9	1.8	1.9	21
	MAR 90L-8	0.55	0.63	670	804	90L	2.17	2.07	1.99	0.61	n/a	63.0	63.0	61.7	7.8	4.0	1.8	2.0	22.5
	MAR 100L1-8	0.75	0.86	680	816	100L	2.4	2.28	2.19	0.67	n/a	71.0	71.0	69.6	10.5	4.0	1.8	2.0	28.5
	MAR 100L2-8	1.1	1.27	680	816	100L	3.32	3.15	3.04	0.69	n/a	73.0	73.0	71.5	15.4	5.0	1.8	2.0	30
	MAR 112M-8	1.5	1.73	690	828	112M	4.4	4.18	4.03	0.69	n/a	75.0	75.0	73.5	20.8	5.0	1.8	2.0	38
	MAR 132S-8	2.2	2.53	705	846	132S	6.04	5.73	5.53	0.71	n/a	78.0	78.0	76.4	29.8	6.0	1.8	2.0	61.5
	MAR 132M-8	3	3.45	705	846	132M	7.9	7.51	7.24	0.73	n/a	79.0	79.0	77.4	40.6	6.0	1.8	2.0	75
	MAR 160M1-8	4	4.6	720	864	160M	10.3	9.76	9.41	0.73	n/a	81.0	81.0	79.4	53.1	6.0	1.9	2.0	101
	MAR 160M2-8	5.5	6.3	720	864	160M	13.6	12.9	12.5	0.74	n/a	83.0	83.0	81.3	73.0	6.0	2.0	2.0	110
	MAR 160L-8	7.5	8.6	720	864	160L	17.8	16.9	16.3	0.75	n/a	85.5	85.5	83.8	99.5	6.0	2.0	2.0	138
	MAR 180L-8	11	12.7	730	876	180L	25.1	23.9	23	0.76	n/a	87.5	87.5	85.8	143.9	6.0	2.0	2.0	147
	MAR 200L-8	15	17.3	730	876	200L	34.1	32.4	31.2	0.76	n/a	88.0	88.0	86.2	196.2	6.6	2.0	2.0	213
	MAR 225S-8	18.5	21.3	730	876	225S	41.1	39	37.6	0.76	n/a	90.0	90.0	88.2	242.0	6.6	1.9	2.0	227
	MAR 225M-8	22	25.3	730	876	225M	47.4	45	43.4	0.78	n/a	90.5	90.5	88.7	287.8	6.6	1.9	2.0	250
	MAR 250M-8	30	34.5	735	882	250M	63.4	60.2	58.1	0.79	n/a	91.0	91.0	89.2	389.8	6.6	1.9	2.0	350
	MAR 280S-8	37	43	735	882	280S	77.8	73.9	71.2	0.79	n/a	91.5	91.5	89.7	480.7	6.6	1.9	2.0	457
	MAR 280M-8	45	52	735	882	280M	94.1	89.4	86.1	0.79	n/a	92.0	92.0	90.2	584.7	6.6	1.8	2.0	520
	MAR 315S-8	55	63	735	882	315S	111	106	102	0.81	n/a	92.8	92.8	90.9	714.6	6.6	1.8	2.0	850
	MAR 315M-8	75	86	735	882	315M	151	144	139	0.81	n/a	93.0	93.0	91.1	974.5	6.6	1.8	2.0	950
	MAR 315LA-8	90	104	735	882	315L	178	169	163	0.82	n/a	93.8	93.8	91.9	1169.4	6.6	1.8	2.0	1000
	MAR 315LB-8	110	127	735	882	315L	217	206	199	0.82	n/a	94.0	94.0	92.1	1429.3	6.4	1.8	2.0	1030
	MAR 355MA-8	132	152	740	888	355M	261	248	239	0.82	n/a	93.7	93.7	91.8	1703.5	6.4	1.8	2.0	1900
	MAR 355MB-8	160	184	740	888	355M	315	299	288	0.82	n/a	94.2	94.2	92.3	2064.9	6.4	1.8	2.0	2050
	MAR 355L-8	200	230	740	888	355L	387	368	355	0.83	n/a	94.5	94.5	92.6	2581.1	6.4	1.8	2.0	2130

DataSheets & Drawings can be downloaded from our website: www.regalbeloit.co.za

DataSheets are available for 400V and 525V 50Hz.

marathon™

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