

TERRAMAX® MOTORS QCA SERIES



The TerraMAX QCA Series motors are IE4 efficient, totally enclosed fan cooled cast-iron motors built on the TerraMAX low voltage global platform. QCA Series motors offer premium features for general industry applications while complying with industry and regulatory standards for performance and overall form, fit and function. The motors have robust construction based on careful design elements, accurate machining parameters, which allow the motors to meet the demanding requirement of various industrial applications, while offering super premium efficiency to the market.

SPECIFICATIONS

- Output: 0.75kW to 315kW (1HP to 425HP)
- Pole: 2 to 8 pole
- Frame: IEC®* 80 – 355
- Power supply: Available for voltages between 200V to 690V and frequency 50 or 60Hz
- Ambient: 40°C (higher ambient on request)
- Construction: Cast iron with integrally cast feet
- Drive suitability: Suitable for variable torque duty (10:1)
- Terminal box: Cast iron with special captive screws and metric cable entry
- Connection: ≤ 3kW: Star connection, > 3kW: Delta connection
- Protection: IP55 (higher protection class on request)
- Insulation: Class F with class B temperature rise
- Bearings: Shielded bearings for IEC 80-180
- Fan: Bi-directional fan
- Mounting: All standard mountings B3, B5, B35, V1 (B14 and B34 for IEC 80-132)

OPTIONAL ACCESSORIES

Space heaters, RTD, BTD, cable glands, brakes, encoders and canopy for V1 mounting. For additional details, please contact our technical support team.

APPLICATIONS

- Machine tools
- Pumps
- Crane & hoist
- Material handling
- Fans
- Compressors
- Conveyors
- Packing equipments

CERTIFICATIONS (ON REQUEST)



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TERRAMAX[®] MOTORS QCA SERIES

PERFORMANCE DATA

Model No.	Frame	Rated (kW)	Speed (rpm)	Full Load Amp			Power factor	Efficiency			Starting Current (I _{LR} /I _{RATED})	Starting Torque (T _{LR} /T _{RATED})	Breakdown Torque (T _{BD} /T _{RATED})	Moment of Inertia (kgm²)	Weight (kg)
				380V	400V	415V		100%	75%	50%					
50 Hz Supply															
2 POLE MOTORS															
QCAP751A.1..G.....	80M	0.75	2885	1.6	1.55	1.5	0.84	83.5	83.5	80.6	7.2	3.5	3.9	0.0016	20.5
QCA1P11A.1..G.....	80M	1.1	2891	2.3	2.24	2.1	0.84	85.2	85.2	82.3	7.8	4.1	4.0	0.0018	21.5
QCA1P51A.1..G.....	90S	1.5	2907	3.2	3.04	2.9	0.83	86.5	86.5	83.5	8.7	4.3	4.4	0.0024	26.0
QCA2P21A.1..G.....	90L	2.2	2902	4.4	4.23	4.0	0.86	88.0	88.0	86.3	9.1	4.6	4.4	0.0030	29.0
QCA0031A.1..G.....	100L	3.0	2917	5.8	5.56	5.3	0.88	89.1	89.1	88.2	10.2	4.6	5.0	0.0052	43
QCA3P71A.1..G.....	100L	3.7	2897	-	-	6.3	0.91	89.7	89.7	89.7	8.9	4.1	4.3	0.0058	46
QCA0041A.1..G.....	112M	4.0	2932	7.4	7.09	6.8	0.91	90.0	90.0	89.9	9.9	3.3	4.6	0.0126	53
QCA5P51A.1..G.....	132S	5.5	2945	10.4	10.02	9.6	0.88	90.9	90.9	88.9	8.6	2.9	4.3	0.0199	80
QCA7P51A.1..G.....	132S	7.5	2943	14.0	13.30	12.8	0.89	91.7	91.7	90.3	8.8	3.1	4.3	0.0252	89
QCA0111A.1..G.....	160M	11	2960	20.3	19.41	18.6	0.89	92.6	92.6	90.8	8.8	2.8	4.3	0.0839	158
QCA0151A.1..G.....	160M	15	2961	27.4	26.14	25.1	0.89	93.3	93.3	92.1	9.2	3.0	4.4	0.0966	171
QCA18P1A.1..G.....	160L	18.5	2958	33	31.75	31	0.90	93.7	93.7	92.8	8.8	3.0	4.2	0.1077	188
QCA0221A.1..G.....	180M	22	2963	40	38.10	37	0.89	94.0	94.0	92.5	7.4	2.2	3.6	0.1801	247
QCA0301A.1..G.....	200L	30	2974	55	52.72	51	0.87	94.5	94.5	92.8	7.2	2.1	3.6	0.3060	307
QCA0371A.1..G.....	200L	37	2973	67	64.49	62	0.88	94.8	94.8	93.4	7.4	2.2	3.6	0.3502	333
QCA0451A.1..G.....	225M	45	2981	85	80.92	78	0.85	95.0	95.0	93.2	8.7	2.6	4.4	0.4855	435
QCA0551A.1..G.....	250M	55	2981	99	93.95	90	0.89	95.3	95.3	93.8	7.9	2.3	3.9	0.7846	564
QCA0751A.1..G.....	280S	75	2984	132	127.08	121	0.90	95.6	95.6	94.2	8.0	2.3	3.9	1.3925	787
QCA0901A.1..G.....	280M	90	2982	157	150.32	144	0.91	95.8	95.8	94.8	7.5	2.2	3.6	1.5530	856
QCA1101A.1..G.....	315S	110	2983	198	188.16	181	0.88	96.0	96.0	94.3	6.9	2.0	3.5	2.3582	1028
QCA1321A.1..G.....	315M	132	2984	237	225.60	217	0.88	96.2	96.2	94.7	7.1	2.1	3.6	2.5544	1073
QCA1601A.1..G.....	315L	160	2984	284	272.49	260	0.89	96.3	96.3	95.2	7.1	2.1	3.5	2.8294	1182
QCA2001A.1..G.....	315L	200	2984	354	338.22	324	0.89	96.5	96.5	95.7	7.0	2.2	3.5	3.2219	1278
QCA2501A.1..G.....	355M	250	2987	442	422.77	405	0.89	96.5	96.5	94.5	8.3	2.6	4.0	5.1256	1965
QCA3151A.1..G.....	355L	315	2989	564	538.05	516	0.88	96.5	96.5	95.0	9.1	3.0	4.3	5.9870	2147
4 POLE MOTORS															
QCAP752A.1..G.....	80M	0.75	1447	1.8	1.72	1.6	0.74	85.7	85.7	82.1	6.3	2.9	3.2	0.0030	24.5
QCA1P12A.1..G.....	90S	1.1	1451	2.5	2.37	2.3	0.77	87.2	87.2	84.5	7.1	3.0	3.6	0.0052	29.5
QCA1P52A.1..G.....	90L	1.5	1457	3.5	3.37	3.2	0.73	88.2	88.2	84.8	8.1	3.8	4.2	0.0063	33
QCA2P22A.1..G.....	100L	2.2	1462	4.9	4.63	4.4	0.77	89.5	89.5	87.7	8.0	3.0	3.7	0.0125	41
QCA0032A.1..G.....	100L	3.0	1466	6.5	6.28	6.0	0.77	90.4	90.4	88.2	9.2	3.7	4.3	0.0169	49
QCA3P72A.1..G.....	112M	3.7	1459	-	-	6.8	0.83	90.9	90.9	90.6	8.3	3.1	3.6	0.0249	64
QCA0042A.1..G.....	112M	4.0	1462	8.2	7.86	7.5	0.81	91.1	91.1	90.4	9.3	3.7	4.2	0.0249	64
QCA5P52A.1..G.....	132S	5.5	1470	11.5	11.03	10.5	0.79	91.9	91.9	91.1	6.9	2.5	3.1	0.0476	87
QCA7P52A.1..G.....	132M	7.5	1472	16.0	15.27	14.6	0.77	92.6	92.6	91.5	7.5	3.0	3.4	0.0579	97
QCA0112A.1..G.....	160M	11	1479	22.4	21.37	20.5	0.80	93.3	93.3	91.2	8.2	3.1	4.0	0.1331	157
QCA0152A.1..G.....	160L	15	1479	29.6	28.21	27.1	0.82	93.9	93.9	92.1	8.5	3.2	4.1	0.1792	192
QCA18P2A.1..G.....	180M	18.5	1479	36	34.49	33	0.83	94.2	94.2	93.0	7.6	2.6	3.6	0.2410	231
QCA0222A.1..G.....	180L	22	1481	44	42.07	40	0.80	94.5	94.5	93.0	8.2	3.0	4.0	0.2767	257
QCA0302A.1..G.....	200L	30	1485	58	55.45	53	0.83	94.9	94.9	94.1	9.2	3.3	4.1	0.5982	317
QCA0372A.1..G.....	225S	37	1486	71	67.99	65	0.83	95.2	95.2	94.5	8.4	2.9	3.7	0.7702	414
QCA0452A.1..G.....	225M	45	1486	86	82.63	79	0.83	95.4	95.4	94.7	8.4	3.0	3.6	0.8148	427
QCA0552A.1..G.....	250M	55	1489	104	99.61	95	0.84	95.7	95.7	94.5	8.0	2.5	3.9	1.6850	598
QCA0752A.1..G.....	280S	75	1491	138	131.25	126	0.86	96.0	96.0	94.8	6.8	2.5	3.0	2.6005	785
QCA0902A.1..G.....	280M	90	1490	164	156.53	150	0.87	96.1	96.1	95.1	6.6	2.5	2.8	2.8284	837
QCA1102A.1..G.....	315S	110	1491	207	198.24	189	0.84	96.3	96.3	94.7	8.1	2.6	3.9	4.0682	1063
QCA1322A.1..G.....	315M	132	1490	242	230.92	222	0.86	96.4	96.4	95.4	7.8	2.5	3.6	4.3265	1103
QCA1602A.1..G.....	315L	160	1490	289	276.13	265	0.87	96.6	96.6	95.9	7.9	2.5	3.6	5.3723	1298
QCA2002A.1..G.....	315L	200	1489	357	342.20	327	0.88	96.7	96.7	96.2	7.2	2.3	3.3	5.4756	1317
QCA2502A.1..G.....	355M	250	1491	452	433.21	413	0.87	96.7	96.7	96.1	7.4	2.2	2.9	9.5981	1873
QCA3152A.1..G.....	355L	315	1490	569	541.01	521	0.87	96.7	96.7	96.5	6.4	1.9	2.5	9.9830	1914

Blue Shaded: For sale by Regal Rexnord operations in India only. Performance per IS:12615

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PERFORMANCE DATA

Model No.	Frame	Rated (kW)	Speed (rpm)	Full Load Amp			Power factor	Efficiency			Starting Current (I _{LR} /I _{RATED})	Starting Torque (T _{LR} /T _{RATED})	Breakdown Torque (T _{BD} /T _{RATED})	Moment of Inertia (kgm²)	Weight (kg)
				380V	400V	415V		100%	75%	50%					
6 POLE MOTORS															
QCAP753A.1..G.....	90S	0.75	949	2.0	1.91	1.8	0.69	82.7	82.7	78.8	5.3	3.0	3.2	0.0052	29.0
QCA1P13A.1..G.....	90L	1.1	948	2.9	2.76	2.6	0.69	84.5	84.5	81.2	5.5	3.2	3.3	0.0068	34
QCA1P53A.1..G.....	100L	1.5	972	3.5	3.39	3.2	0.75	85.9	85.9	81.8	6.9	2.4	3.3	0.0241	47
QCA2P23A.1..G.....	112M	2.2	969	5.4	5.13	4.9	0.71	87.4	87.4	84.2	7.6	3.3	3.7	0.0226	57
QCA0033A.1..G.....	132S	3.0	976	6.9	6.53	6.3	0.75	88.6	88.6	87.3	6.1	2.1	2.7	0.0536	77
QCA3P73A.1..G.....	132S	3.7	983	-	-	8.7	0.66	89.3	89.7	87.6	7.7	2.3	3.2	0.0660	86
QCA0043A.1..G.....	132M	4.0	978	9.2	8.79	8.4	0.74	89.5	89.5	88.0	6.6	2.4	3.0	0.0660	86
QCA5P53A.1..G.....	132M	5.5	979	12.6	12.12	11.6	0.73	90.5	90.5	88.5	7.1	2.7	3.3	0.0868	100
QCA7P53A.1..G.....	160M	7.5	981	16.0	15.33	14.7	0.78	91.3	91.3	89.2	6.4	2.2	3.0	0.1626	149
QCA9P33A.1..G.....	160L	9.3	983	20.0		18.3	0.77	91.9	91.9	89.6	6.9	2.5	3.3	0.2127	177
QCA0113A.1..G.....	160L	11	984	23.8	22.89	21.8	0.76	92.3	92.3	89.7	7.7	3.1	3.5	0.2398	190
QCA0153A.1..G.....	180L	15	987	32	30.88	30	0.76	92.9	92.9	90.6	7.8	2.9	3.5	0.4279	268
QCA18P3A.1..G.....	200L	18.5	986	38	36.35	35	0.79	93.4	93.4	92.3	6.5	2.3	2.8	0.6664	293
QCA0223A.1..G.....	200L	22	986	45	42.73	41	0.80	93.7	93.7	92.8	6.5	2.2	2.7	0.7703	319
QCA0303A.1..G.....	225M	30	989	60	57.08	55	0.81	94.2	94.2	92.4	8.0	2.7	3.5	1.2532	447
QCA0373A.1..G.....	250M	37	988	73	70.27	67	0.81	94.5	94.5	93.4	7.3	2.7	3.2	1.9403	519
QCA0453A.1..G.....	280S	45	991	88	84.51	81	0.82	94.8	94.8	93.3	7.1	2.3	3.0	2.7750	671
QCA0553A.1..G.....	280M	55	991	106	101.72	97	0.83	95.1	95.1	93.8	7.2	2.3	3.0	3.2641	743
QCA0753A.1..G.....	315S	75	991	147	141.10	135	0.81	95.4	95.4	94.5	5.9	1.9	2.5	3.9975	890
QCA0903A.1..G.....	315M	90	992	179	170.13	164	0.80	95.6	95.6	94.6	6.1	2.1	2.6	4.6216	963
QCA1103A.1..G.....	315L	110	992	213	204.13	195	0.82	95.8	95.8	95.0	6.2	2.2	2.6	5.6743	1110
QCA1323A.1..G.....	315L	132	992	261	248.83	239	0.80	96.0	96.0	95.0	6.6	2.4	2.8	6.5064	1197
QCA1603A.1..G.....	355M	160	992	304	290.18	279	0.83	96.2	96.2	95.5	6.7	2.1	2.8	9.9148	1737
QCA2003A.1..G.....	355M	200	992	380	362.35	348	0.83	96.3	96.3	95.7	6.9	2.2	2.9	11.596	1877
QCA2503A.1..G.....	355L	250	993	469	449.61	429	0.84	96.5	96.5	95.7	7.3	2.4	3.0	15.070	2180
8 POLE MOTORS															
QCAP754A.1..G.....	100L	0.75	723	2.2	2.1	2.0	0.65	78.4	78.4	70.9	5.0	2.0	2.9	0.0149	36
QCA1P14A.1..G.....	100L	1.1	725	3.2	3.0	2.9	0.65	80.8	80.8	73.8	5.3	2.2	3.0	0.0194	41
QCA1P54A.1..G.....	112M	1.5	719	4.2	4.0	3.8	0.66	82.6	82.6	78.3	5.2	2.2	2.7	0.0222	56
QCA2P24A.1..G.....	132S	2.2	726	5.8	5.5	5.3	0.68	84.5	84.5	81.3	4.7	2.0	2.5	0.0494	71
QCA0034A.1..G.....	132M	3.0	725	7.6	7.2	6.9	0.7	85.9	85.9	83.9	4.8	2.0	2.5	0.0640	83
QCA3P74A.1..G.....	160M	3.7	732	-	-	9.0	0.66	86.8	86.8	84.3	5.7	2.0	2.7	0.1310	133
QCA0044A.1..G.....	160M	4.0	730	10.1	9.61	9.3	0.69	87.1	87.1	84.8	5.3	1.8	2.4	0.1312	133
QCA5P54A.1..G.....	160M	5.5	729	13.1	12.57	12.0	0.72	88.3	88.3	87.0	5.3	1.7	2.3	0.1674	150
QCA7P54A.1..G.....	160L	7.5	731	18.8	17.98	17.2	0.68	89.3	89.3	87.0	6.1	2.3	2.7	0.2176	180
QCA0114A.1..G.....	180L	11	732	26.0	24.75	23.8	0.71	90.4	90.4	89.1	7.0	2.0	3.3	0.3337	228
QCA0154A.1..G.....	200L	15	738	36	34.25	33	0.7	91.2	91.2	88.7	5.4	2.0	2.6	0.6753	307
QCA18P4A.1..G.....	225S	18.5	739	40	38.14	36	0.77	91.7	91.7	90.1	5.4	1.8	2.4	0.8781	366
QCA0224A.1..G.....	225M	22	738	46	43.89	42	0.79	92.1	92.1	91.0	5.2	1.7	2.3	1.0453	404
QCA0304A.1..G.....	250M	30	738	62	59.30	57	0.79	92.7	92.7	92.3	5.1	1.8	2.2	1.7558	499
QCA0374A.1..G.....	280S	37	741	79	76.23	73	0.76	93.1	93.1	91.5	5.6	2.0	2.3	2.7750	661
QCA0454A.1..G.....	280M	45	741	96	91.61	88	0.76	93.4	93.4	92.2	5.4	1.9	2.2	3.1030	718
QCA0554A.1..G.....	315S	55	743	121	114.77	110	0.74	93.7	93.7	91.7	5.0	1.9	2.1	4.1362	893
QCA0754A.1..G.....	315M	75	743	159	153.17	146	0.76	94.2	94.2	92.6	5.0	1.9	2.1	5.2457	1010
QCA0904A.1..G.....	315L	90	743	191	182.88	175	0.76	94.4	94.4	92.9	5.2	2.0	2.1	6.2165	1107
QCA1104A.1..G.....	355M	110	743	218	207.91	200	0.81	94.7	94.7	94.1	6.0	1.5	2.5	7.8323	1549
QCA1324A.1..G.....	355M	132	742	255	243.98	233	0.83	94.9	94.9	94.5	6.0	1.5	2.4	8.9257	1646
QCA1604A.1..G.....	355M	160	742	312	296.30	285	0.82	95.1	95.1	94.8	6.2	1.6	2.5	10.566	1795
QCA200A.1..G.....	355L	200	743	384	366.75	351	0.83	95.4	95.4	95.0	6.7	1.8	2.6	13.868	2082

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TERRAMAX® MOTORS QCA SERIES

PART NUMBER LOGIC

Marathon® TerraMAX® QCA Series standard product code for IEC®* frame motors is shown below.

IE4 cast iron industry duty motor			Rated power			Frame		Voltage				Mechanical variations			Electrical variations			Serial number		
Q	C	A	0	4	5	2	A	1	1	1	3	G	A	C	0	1	1			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
Pole			Frequency			Mounting			T box position			Accessories								
1 = 2P 2 = 4P 3 = 6P 4 = 8P 5 = 10P 6 = 12P 0 = Multispeed			1 = 50Hz 2 = 60Hz 3 = 50/60Hz 4 = Other			1=B3 2=B5 3=B35 4=V1 5=B34A 6=B34B 7=B14A 8=B14B 9=Spl			1=Top 2=Left 3=Right			B=Brake C=Brake + Encoder E=Encoder G=General Purpose								

For additional details, please contact our technical support team.

marathon®
Motors

Industrial Solutions Regal Rexnord

AUSTRALIA

Regal Beloit Australia Pty Ltd
19 Corporate Ave (PO Box 2340)
Rowville Victoria Australia 3178
T: +61 3 9237 4040
salesAUvic@regalrexnord.com

BRASIL

Regal Beloit do Brasil Ltda.
Trav. Vitor Emanuel, 2889 Caxias do Sul
Rio Grande do Sul Brasil 95047-610
T: +55 54 3224 9600
vendas.brasil@regalrexnord.com

CHINA

Regal Beloit (Wuxi) Co., Ltd
6 Xiangge Rd Hudai Town Wuxi China
T: +86 510 81831600
market.wuxi@regalrexnord.com

COLOMBIA

Empresa Regal de Colombia S.A.S.
Centro Empresarial Metropolitano km.
3.4 Bodega 6 Modulo 1 Siberia Cota
Central Savanna Colombia
T: +571 7469 550
contacto@regalrexnord.com

FRANCE

Cemp
Didier Froger
M: +33 (0) 616 958 456
Didier.Froger@regalrexnord.com

GERMANY

Cemp International GmbH
Dr. Atzinger- Strasse 5
Passau Bavaria Germany
T: +49 (0) 8519662320
cemp-deutschland@cemp.eu

INDIA

Marathon Electric Motors (India) Limited
01 Taratala Road Kolkata - 700024
Bengal India
T: +91 33 4403 0400
marathon.LTsales@marathonelectric.com

ITALY

Cemp s.r.l.
Via Piemonte 16 Senago Milano Italy
T: +39 029443540 1
cemp@regalrexnord.com

NETHERLANDS

Rotor B.V.
Mors 1, 7151 MX Eibergen Netherlands
T: +31 545 464 600
Sales.nl@regalrexnord.com

SINGAPORE, MALAYSIA

Regal-Beloit Asia Pte. Ltd.
12 Tuas Loop Singapore, 637346
Singapore Malaysia
T: +65 6863 3473
salesSG@regalrexnord.com

MEXICO

Regal Beloit de Mexico, S. de R.L. de C.V.
Av. Luis G. Fernandez T. 2108 Finsa 1
Santa Catarina Nuevo Leon Mexico 66350
T: 01 800 84 73425
contacto@regalrexnord.com

NEW ZEALAND

Regal Beloit New Zealand Limited
18 Jomac Place Avondale
Auckland New Zealand
T: +64 9 830 3550
salesNZnth@regalrexnord.com

SOUTH AFRICA

Regal Beloit South Africa (Pty) Ltd
268B Fleming Rd Meadowdale Germiston
Gauteng South Africa
T: +27 11 453 1930
SalesZAjhb@regalrexnord.com

UNITED ARAB EMIRATES

Regal Beloit FZE
1810, JAFZA ONE Jebel Ali Free Zone
Dubai United Arab Emirates
T: +971 48812666

UNITED KINGDOM

RML UK Ltd
Marshall Way Gainsborough Lincolnshire
United Kingdom DN21 1XU
T: +44 (0) 1427 614141
sales.europe@regalrexnord.com

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MCSSP22096E • Form# SB0217E

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