

TERRAMAX® MOTORS TCA SERIES



TCA series motors, built on the global low voltage TerraMAX platform, are IE3 efficiency totally enclosed fan cooled motors suitable for general industry applications. The TCA series motors inherit the premium features of futuristic TerraMAX motor platform, while delivering energy savings for the industry. The rugged construction of the TCA series motors meets the industry requirement for all tough and demanding applications.

SPECIFICATIONS

- Output: 0.75kW to 375kW (1HP to 500HP)
- Pole: 2 to 8 pole
- Frame: IEC 80 – 355
- Standards: Confirms to IEC 60034
- 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: S 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 TCA SERIES

PERFORMANCE DATA

Model No.	Frame	Rated (kW)	Speed (RPM)	50 Hz Supply										Moment of Inertia (kgm²)	Weight (kg)
				Full Load Amp			Power factor	Efficiency			Starting Current (I _{LR} /I _{RATED})	Starting Torque (T _{LR} /T _{RATED})	Breakdown Torque (T _{BD} /T _{RATED})		
				380V	400V	415V		100%	75%	50%					
2 POLE MOTORS															
TCAP751A.1..G.....	80M	0.75	2880	1.7	1.6	1.6	0.83	80.7	80.7	75.6	6.5	3.0	3.3	0.0013	18.5
TCA1P11A.1..G.....	80M	1.1	2878	2.4	2.3	2.2	0.84	82.7	82.7	79.3	6.8	3.2	3.3	0.0016	20.0
TCA1P51A.1..G.....	90S	1.5	2888	3.2	3.0	2.9	0.85	84.2	84.2	81.8	7.5	3.5	3.5	0.0021	24.5
TCA2P21A.1..G.....	90L	2.2	2889	4.4	4.2	4.0	0.88	85.9	85.9	84.7	8.1	3.8	3.6	0.0029	28.0
TCA0031A.1..G.....	100L	3	2889	5.8	5.5	5.3	0.90	87.1	87.1	86.6	7.9	3.2	3.6	0.0042	38
TCA3P71A.1..G.....	100L	3.7	2880	-	-	6.3	0.93	87.8	87.8	88.4	7.7	3.3	3.5	0.0058	45
TCA0041A.1..G.....	112M	4	2921	7.7	7.3	7.0	0.90	88.1	88.1	88.1	8.6	2.7	3.7	0.0101	47
TCA5P51A.1..G.....	132S	5.5	2936	10.5	10.0	9.6	0.89	89.2	89.2	87.7	7.7	2.4	3.6	0.0184	75
TCA7P51A.1..G.....	132S	7.5	2934	14.1	13.4	12.9	0.90	90.1	90.1	89.3	7.8	2.6	3.6	0.0214	81
TCA0111A.1..G.....	160M	11	2955	20.6	19.6	18.9	0.89	91.2	91.2	89.7	7.9	2.3	3.7	0.0626	135
TCA0151A.1..G.....	160M	15	2956	27.9	26.5	25.5	0.89	91.9	91.9	90.9	8.4	2.6	3.9	0.0754	148
TCA18P1A.1..G.....	160L	18.5	2953	33	32	31	0.91	92.4	92.4	91.9	8.1	2.6	3.6	0.0928	172
TCA0221A.1..G.....	180M	22	2961	41	39	38	0.87	92.7	92.7	91.3	7.4	2.2	3.6	0.1399	207
TCA0301A.1..G.....	200L	30	2973	57	55	53	0.85	93.3	93.3	91.6	7.4	2.1	3.7	0.2430	266
TCA0371A.1..G.....	200L	37	2974	70	66	64	0.86	93.7	93.7	92.5	7.8	2.4	3.8	0.2934	296
TCA0451A.1..G.....	225M	45	2978	84	79	77	0.87	94.0	94.0	92.7	8.0	2.2	3.9	0.4264	399
TCA0551A.1..G.....	250M	55	2977	100	95	91	0.89	94.3	94.3	93.0	7.0	1.9	3.4	0.6214	489
TCA0751A.1..G.....	280S	75	2983	137	130	125	0.88	94.7	94.7	93.2	7.9	2.1	3.8	1.079	669
TCA0901A.1..G.....	280M	90	2982	162	154	148	0.89	95.0	95.0	93.9	7.6	2.1	3.6	1.181	723
TCA1101A.1..G.....	315S	110	2983	199	190	183	0.88	95.2	95.2	92.7	7.2	2.0	3.6	2.227	975
TCA1321A.1..G.....	315M	132	2984	236	224	216	0.89	95.4	95.4	93.3	7.4	2.2	3.7	2.424	1025
TCA1601A.1..G.....	315L	160	2983	286	271	262	0.89	95.6	95.6	94.0	7.3	2.2	3.6	2.764	1151
TCA2001A.1..G.....	315L	200	2984	356	339	326	0.89	95.8	95.8	94.6	7.3	2.3	3.6	3.091	1231
TCA2501A.1..G.....	355M	250	2983	441	419	403	0.90	95.8	95.8	94.2	6.9	2.0	3.3	4.073	1717
TCA3151A.1..G.....	355L	315	2984	555	527	508	0.90	95.8	95.8	94.9	7.0	2.1	3.3	4.743	1856
TCA3551A.1..G.....	355L	355	2987	633	601	579	0.89	95.8	95.8	95.0	8.6	2.8	4.0	5.796	2082
TCA3751A.1..G.....	355L	375	2986	661	628	605	0.90	95.8	95.8	95.2	8.1	2.6	3.7	5.796	2082
4 POLE MOTORS															
TCAP752A.1..G.....	80M	0.75	1446	1.8	1.7	1.7	0.75	82.5	82.5	77.6	6.6	3.0	3.0	0.0031	21.5
TCA1P12A.1..G.....	90S	1.1	1450	2.6	2.5	2.4	0.77	84.1	84.1	79.1	6.8	2.9	3.4	0.0045	24.5
TCA1P52A.1..G.....	90L	1.5	1448	3.5	3.3	3.2	0.77	85.3	85.3	80.3	7.0	3.0	3.4	0.0052	26.0
TCA2P22A.1..G.....	100L	2.2	1456	4.6	4.4	4.2	0.84	86.7	86.7	85.1	7.0	2.3	2.9	0.0115	39
TCA0032A.1..G.....	100L	3	1458	6.2	5.9	5.7	0.84	87.7	87.7	86.2	7.7	2.6	3.1	0.0145	44
TCA3P72A.1..G.....	112M	3.7	1460	-	-	7.1	0.82	88.4	88.4	87.7	7.5	1.8	2.8	0.0192	54
TCA0042A.1..G.....	112M	4	1457	8.3	7.9	7.6	0.83	88.6	88.6	88.1	8.4	3.2	3.6	0.0192	54
TCA5P52A.1..G.....	132S	5.5	1468	11.1	10.5	10.2	0.84	89.6	89.6	89.7	6.7	2.3	2.7	0.0446	83
TCA7P52A.1..G.....	132M	7.5	1470	15.2	14.4	13.9	0.83	90.4	90.4	90.4	7.5	2.8	3.0	0.0550	93
TCA0112A.1..G.....	160M	11	1475	21.8	20.7	19.9	0.84	91.4	91.4	90.6	7.3	2.5	3.3	0.1200	147
TCA0152A.1..G.....	160L	15	1476	29.1	27.7	26.7	0.85	92.1	92.1	91.6	7.6	2.7	3.4	0.1597	178
TCA18P2A.1..G.....	180M	18.5	1477	37	35	33	0.83	92.6	92.6	92.2	7.3	2.5	3.3	0.2209	218
TCA0222A.1..G.....	180L	22	1478	44	42	40	0.82	93.0	93.0	92.5	7.5	2.7	3.5	0.2415	237
TCA0302A.1..G.....	200L	30	1479	57	54	52	0.85	93.6	93.6	93.6	6.6	2.2	2.9	0.4488	271
TCA0372A.1..G.....	225S	37	1484	70	67	64	0.85	93.9	93.9	94.0	7.3	2.4	3.1	0.6683	381
TCA0452A.1..G.....	225M	45	1483	85	81	78	0.85	94.2	94.2	94.2	7.2	2.4	3.0	0.7130	394
TCA0552A.1..G.....	250M	55	1487	103	98	94	0.86	94.6	94.6	94.0	7.2	2.2	3.4	1.397	535
TCA0752A.1..G.....	280S	75	1489	138	131	126	0.87	95.0	95.0	94.0	6.4	2.3	2.7	2.230	713
TCA0902A.1..G.....	280M	90	1489	165	157	151	0.87	95.2	95.2	94.5	6.4	2.4	2.7	2.384	755
TCA1102A.1..G.....	315S	110	1487	199	189	182	0.88	95.4	95.4	95.0	6.5	1.9	2.9	3.448	962
TCA1322A.1..G.....	315M	132	1488	238	226	218	0.88	95.6	95.6	95.2	6.8	2.1	3.0	3.758	1016
TCA1602A.1..G.....	315L	160	1488	288	274	264	0.88	95.8	95.8	95.6	6.9	2.2	3.1	4.442	1157
TCA2002A.1..G.....	315L	200	1488	356	338	326	0.89	96.0	96.0	95.8	6.9	2.2	3.0	5.062	1246
TCA2502A.1..G.....	355M	250	1490	445	422	407	0.89	96.0	96.0	95.8	6.5	1.9	2.5	8.443	1743
TCA3152A.1..G.....	355L	315	1489	554	526	507	0.90	96.0	96.0	96.2	6.2	1.8	2.3	10.176	1914
TCA3552A.1..G.....	355L	355	1490	624	593	572	0.90	96.0	96.0	96.2	6.9	2.1	2.5	10.945	1979
TCA3752A.1..G.....	355L	375	1490	659	626	604	0.90	96.0	96.0	96.3	6.6	2.1	2.4	11.138	2004

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

TERRAMAX[®] MOTORS TCA SERIES

PERFORMANCE DATA

Model No.	Frame	Rated (kW)	Speed (RPM)	50 Hz Supply										Moment of Inertia (kgm ²)	Weight (kg)
				Full Load Amp			Power factor	Efficiency			Starting Current (I _{LR} /I _{RATED})	Starting Torque (T _{LR} /T _{RATED})	Breakdown Torque (T _{BD} /T _{RATED})		
				380V	400V	415V		100%	75%	50%					
6 POLE MOTORS															
TCAP753A.1.G.....	90S	0.75	946	2.3	2.1	2.1	0.64	78.9	78.9	71.1	4.8	3.0	3.1	0.0036	24.5
TCA1P13A.1.G.....	90L	1.1	941	3.1	3.0	2.9	0.66	81.0	81.0	74.8	4.8	3.0	3.0	0.0046	27.0
TCA1P53A.1.G.....	100L	1.5	966	3.7	3.5	3.4	0.74	82.5	82.5	77.8	5.9	2.2	2.7	0.0143	36
TCA2P23A.1.G.....	112M	2.2	958	5.4	5.2	5.0	0.73	84.3	84.3	82.4	5.9	2.5	2.8	0.0158	47
TCA0033A.1.G.....	132S	3	973	7.5	7.1	6.9	0.71	85.6	85.6	84.3	5.5	2.0	2.6	0.0390	67
TCA3P73A.1.G.....	132S	3.7	973	-	-	7.8	0.76	86.5	86.5	86.7	5.6	2.0	2.5	0.0494	74
TCA0043A.1.G.....	132M	4	973	9.5	9.0	8.7	0.74	86.8	86.8	85.9	5.6	2.1	2.6	0.0494	74
TCA5P53A.1.G.....	132M	5.5	973	12.5	11.9	11.4	0.76	88.0	88.0	88.0	5.9	2.2	2.6	0.0660	85
TCA7P53A.1.G.....	160M	7.5	976	16.0	15.2	14.6	0.80	89.1	89.1	88.7	5.3	1.8	2.4	0.1355	135
TCA0113A.1.G.....	160L	11	977	23.4	22.3	21.5	0.79	90.3	90.3	89.6	5.6	2.0	2.6	0.1811	163
TCA0153A.1.G.....	180L	15	982	32	30	29.3	0.78	91.2	91.2	90.7	6.1	2.1	2.7	0.3035	221
TCA18P3A.1.G.....	200L	18.5	984	38	36	35	0.80	91.7	91.7	91.6	5.8	2.0	2.4	0.5179	256
TCA0223A.1.G.....	200L	22	984	45	43	41	0.80	92.2	92.2	92.1	6.0	2.1	2.5	0.6070	277
TCA0303A.1.G.....	225M	30	987	59	56	54	0.83	92.9	92.9	91.9	6.8	2.2	2.9	0.9206	377
TCA0373A.1.G.....	250M	37	987	73	70	67	0.82	93.3	93.3	92.8	6.8	2.4	2.9	1.608	488
TCA0453A.1.G.....	280S	45	989	90	86	82	0.81	93.7	93.7	92.9	6.1	1.9	2.6	2.238	593
TCA0553A.1.G.....	280M	55	989	107	102	98	0.83	94.1	94.1	93.7	6.2	1.9	2.5	2.673	616
TCA0753A.1.G.....	315S	75	989	149	141	136	0.81	94.6	94.6	94.4	5.1	1.6	2.2	3.373	822
TCA0903A.1.G.....	315M	90	990	176	167	161	0.82	94.9	94.9	94.7	5.2	1.7	2.2	3.928	888
TCA1103A.1.G.....	315L	110	990	214	204	196	0.82	95.1	95.1	95.0	5.4	1.8	2.2	4.773	1013
TCA1323A.1.G.....	315L	132	990	253	241	232	0.83	95.4	95.4	95.2	5.4	1.9	2.2	5.466	1084
TCA1603A.1.G.....	355M	160	991	303	288	277	0.84	95.6	95.6	95.6	6.1	1.9	2.5	8.570	1618
TCA2003A.1.G.....	355M	200	991	373	355	342	0.85	95.8	95.8	95.9	6.0	1.9	2.5	9.915	1735
TCA2503A.1.G.....	355L	250	991	466	443	427	0.85	95.8	95.8	95.9	6.1	2.0	2.5	11.708	1889
8 POLE MOTORS															
TCAP754A..1.G.....	100L	0.75	723	2.3	2.2	2.1	0.66	75.0	75.0	69.5	4.8	1.8	2.7	0.0149	36
TCA1P14A.1.G.....	100L	1.1	721	3.2	3.0	2.9	0.67	77.7	77.7	72.9	4.8	1.9	2.7	0.0172	38
TCA1P54A.1.G.....	112M	1.5	715	4.2	4.0	3.9	0.68	79.7	79.7	77.8	4.7	1.9	2.4	0.0200	53
TCA2P24A.1.G.....	132S	2.2	723	5.8	5.5	5.3	0.70	81.9	81.9	81.3	4.4	1.8	2.3	0.0453	70
TCA0034A.1.G.....	132M	3	724	7.9	7.5	7.2	0.69	83.5	83.5	82.9	4.7	2.0	2.5	0.0577	79
TCA3P74A.1.G.....	160M	3.7	732	-	-	8.8	0.69	84.5	84.5	85.4	5.5	1.8	2.5	0.1312	134
TCA0044A.1.G.....	160M	4	730	10.4	9.9	9.5	0.69	84.8	84.8	85.5	5.3	1.8	2.4	0.1312	134
TCA5P54A.1.G.....	160M	5.5	729	13.5	12.8	12.3	0.72	86.2	86.2	87.0	5.3	1.7	2.3	0.1674	149
TCA7P54A.1.G.....	160L	7.5	728	18.1	17.2	16.6	0.72	87.3	87.3	87.8	5.4	1.8	2.3	0.2040	173
TCA0114A.1.G.....	180L	11	730	25.8	24.5	23.7	0.73	88.6	88.6	89.5	6.5	1.8	3.0	0.3337	229
TCA0154A.1.G.....	200L	15	739	36	34	33	0.71	89.6	89.6	89.0	5.5	2.0	2.6	0.7327	312
TCA18P4A.1.G.....	225S	18.5	738	41	38	37	0.77	90.1	90.1	90.5	5.2	1.7	2.3	0.8781	372
TCA0224A.1.G.....	225M	22	738	47	45	43	0.78	90.6	90.6	91.1	5.2	1.7	2.3	1.045	375
TCA0304A.1.G.....	250M	30	739	63	60	58	0.79	91.3	91.3	92.8	5.3	1.9	2.3	2.162	564
TCA0374A.1.G.....	280S	37	742	79	75	72	0.78	91.8	91.8	92.0	6.0	2.1	2.4	3.258	720
TCA0454A.1.G.....	280M	45	742	96	91	88	0.77	92.2	92.2	92.6	5.9	2.1	2.4	3.533	768
TCA0554A.1.G.....	315S	55	742	125	119	115	0.72	92.5	92.5	91.4	4.7	1.8	2.1	3.790	887
TCA0754A.1.G.....	315S	75	743	168	159	154	0.73	93.1	93.1	92.1	4.8	1.9	2.1	4.830	898
TCA0904A.1.G.....	315S	90	743	201	191	184	0.73	93.4	93.4	92.6	4.9	1.9	2.1	5.662	914
TCA1104A.1.G.....	355M	110	743	220	209	202	0.81	93.7	93.7	94.2	6.0	1.5	2.5	7.832	1548
TCA1324A.1.G.....	355M	132	742	260	247	238	0.82	94.0	94.0	94.5	6.0	1.5	2.4	8.926	1640
TCA1504A.1.G.....	355M	150	742	295	280	270	0.82	94.2	94.2	94.7	6.0	1.5	2.4	9.910	1731
TCA1604A.1.G.....	355M	160	742	314	299	288	0.82	94.3	94.3	94.8	6.2	1.6	2.5	10.566	1787
TCA2004A.1.G.....	355L	200	742	387	368	354	0.83	94.6	94.6	95.0	6.3	1.7	2.5	13.190	2010

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

TERRAMAX® MOTORS TCA SERIES

PART NUMBER LOGIC

Marathon® TerraMAX® TCA series standard product code for IEC frame motors is shown below.

IE3 cast iron industry duty motor			Rated power			Frame A = Std. IEC, B = Non-Std. IEC			Voltage 1 = 400V 2 = 400/690V 3 = 415V 4 = 380/660V 7 = 525V 8 = 440V B = 690V E = 230/460V F = 380V G = 230/380V					Mechanical variations			Electrical variations			Serial number		
T	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 1 = 2P 2 = 4P 3 = 6P 4 = 8P 5 = 10P 6 = 12P 0 = Multispeed			Frequency 1 = 50Hz 2 = 60Hz 3 = 50/60Hz 4 = Other			Mounting 1=B3 2=B5 3=B35 4=V1 5=B34A 6=B34B 7=B14A 8=B14B 9=Spl			T box position 1=Top 2=Left 3=Right			Accessories B=Brake C=Brake + Encoder E=Encoder G=General Purpose										

For additional details, please contact our technical support team.

marathon®
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