

MARATHON TERRAMAX SCA (IE2), TCA (IE3) MOTORS AT 50°C AMB For UL Certification

January 2025
India

Industrial Motors

Commercial &
Appliance Motors

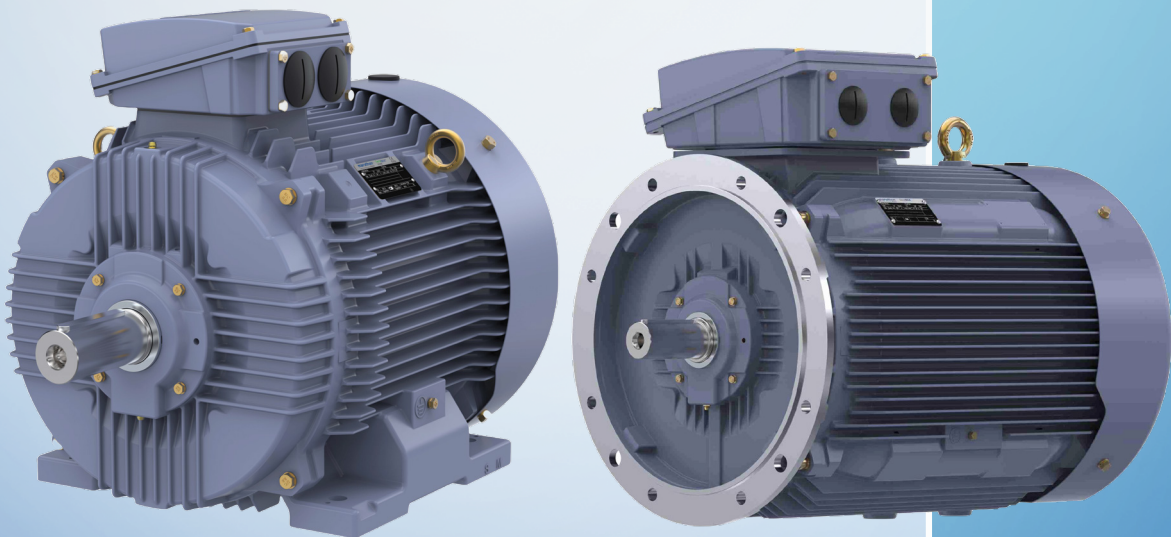
Automation

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Systems

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Transmission &
Distribution

Coatings



MARATHON TERRAMAX SCA (IE2) MOTORS 50°C AMB

Ready For Tough Environments & Industrial Applications

TerraMAX SCA Series motors are IE2 efficient Totally Enclosed Fan Cooled (TEFC) cast iron motors built on the TerraMAX low voltage motor platform. The SCA series motors inherit the state-of-the-art premium features of the TerraMAX motor platform family. The rugged construction of SCA motors aims to meet the general industry requirement for every tough and demanding application.

SPECIFICATIONS

- Output: 0.75kW to 375kW (1HP to 500HP)
- Pole: 2 to 8 Pole
- Frame: IEC®* 80 – 355
- Standards: Confirms to IS 12065 / IEC 60034
- Supply: Standard 415V , 50 Hz (Voltages 200V to 690V and frequency 60Hz on request)
- Ambient: 50°C (Higher ambient on request)
- Construction: Cast Iron with Integrally Cast Feet
- Drive Suitability: Suitable for variable torque duty (10:1)
- Terminal Box: Sheet metal up to 225, Cast Iron for 250 and above
- Connection: $\leq 3\text{kW}$: Star Connection, $> 3\text{kW}$: Delta Connection
- Protection: IP55 (Higher degree protection on request)
- Insulation: Class F with Class B temperature rise
- Bearings: Ball bearing (roller & insulated bearing on request)
- Fan: Bi-directional fan
- Mounting: All standard mountings B3, B5, B35, V1 (B14 and B34 for IEC 80-132)

OPTIONAL ACCESSORIES

Space heater, RTD (for IEC 200 and above), BTD (for IEC 160 and above), Cable glands, Brakes (IEC 180 and above), Encoders and canopy for V1 mounting. For additional details, please contact our technical support team.

APPLICATIONS

- Pumps
- Machine tools
- Crane & hoist
- Agitator
- Fans
- Material handling
- Textile Machinery
- Packing equipments
- Compressors
- Plastic extruder
- Stone Processing Machinery
- Oil Expeller

CERTIFICATIONS (ON REQUEST)



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PERFORMANCE DATA - SCA (IE2) MOTORS

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															
SCAP751A.1..G.....	80M	0.75	2825	1.8	1.7	1.6	0.83	77.4	77.4	75.8	6.3	2.7	2.8	0.0008	16.0
SCA1P11A.1..G.....	80M	1.1	2825	2.5	2.4	2.3	0.84	79.6	79.6	78.8	6.3	2.6	2.8	0.0010	17.0
SCA1P51A.1..G.....	90S	1.5	2869	3.3	3.1	3.0	0.86	81.3	81.3	80.2	6.6	3.0	3.1	0.0018	23.1
SCA2P21A.1..G.....	90L	2.2	2868	4.6	4.3	4.2	0.88	83.2	83.2	83.0	7.2	3.5	3.2	0.0023	27.0
SCA0031A.1..G.....	100L	3.0	2879	6.1	5.8	5.5	0.89	84.6	84.6	84.4	7.5	3.3	3.2	0.0032	36
SCA3P71A.1..G.....	100L	3.7	2874	-	-	6.5	0.92	85.5	85.5	86.6	7.0	3.4	3.2	0.0044	42
SCA0041A.1..G.....	112M	4.0	2864	7.6	7.2	7.0	0.93	85.8	85.8	88.0	6.7	2.7	2.9	0.0050	45
SCA5P51A.1..G.....	132S	5.5	2908	10.3	9.8	9.5	0.93	87.0	87.0	88.0	7.7	2.5	3.1	0.0140	70
SCA7P51A.1..G.....	132S	7.5	2906	13.8	13.1	12.6	0.94	88.1	88.1	88.8	7.8	2.5	3.1	0.0155	74
SCA0111A.1..G.....	160M	11	2940	21.0	20.0	19.2	0.89	89.4	89.4	88.2	7.5	2.4	2.9	0.0430	117
SCA0151A.1..G.....	160M	15	2940	28.4	26.9	26.0	0.89	90.3	90.3	89.1	7.5	2.6	3.0	0.0520	127
SCA18P1A.1..G.....	160L	18.5	2940	34	33	31	0.90	90.9	90.9	89.8	7.5	2.9	3.1	0.0650	149
SCA0221A.1..G.....	180M	22	2946	40	38	36	0.92	91.3	91.3	91.8	7.2	2.4	3.2	0.0928	196
SCA0331A.1..G.....	200L	30	2953	55	52	50	0.90	92.0	92.0	91.5	6.3	1.9	3.0	0.1687	258
SCA0371A.1..G.....	200L	37	2953	68	64	62	0.90	92.5	92.5	92.2	6.5	2.0	3.1	0.1867	273
SCA0451A.1..G.....	225M	45	2968	82	78	75	0.90	92.9	92.9	93.2	6.5	1.9	3.0	0.3376	383
SCA0551A.1..G.....	250M	55	2973	101	96	92	0.89	93.2	93.2	92.8	6.7	1.9	3.2	0.4602	477
SCA0751A.1..G.....	280S	75	2978	135	128	124	0.90	93.8	93.8	93.1	7.2	2.0	3.4	0.7438	609
SCA0901A.1..G.....	280M	90	2979	161	153	148	0.90	94.1	94.1	93.6	7.6	2.3	3.5	0.8662	677
SCA1101A.1..G.....	315S	110	2980	197	187	180	0.90	94.3	94.3	92.4	6.4	1.8	3.1	1.9330	908
SCA1321A.1..G.....	315M	132	2980	233	221	213	0.91	94.6	94.6	93.0	6.3	1.8	3.0	2.1620	960
SCA1601A.1..G.....	315L	160	2980	282	268	258	0.91	94.8	94.8	93.7	6.2	1.8	2.9	2.3720	1058
SCA2001A.1..G.....	315L	200	2984	352	334	322	0.91	95.0	95.0	94.4	7.3	2.3	3.4	3.0910	1231
SCA2501A.1..G.....	355M	250	2983	444	422	407	0.90	95.0	95.0	94.2	6.9	2.0	3.3	4.0730	1717
SCA3151A.1..G.....	355L	315	2984	560	532	513	0.90	95.0	95.0	94.9	7.0	2.1	3.3	4.7430	1856
SCA3551A.1..G.....	355L	355	2987	638	606	584	0.89	95.0	95.0	95.0	8.6	2.8	3.9	5.7960	2083
SCA3751A.1..G.....	355L	375	2986	666	633	610	0.90	95.0	95.0	95.2	8.1	2.6	3.7	5.7960	2083
4 POLE MOTORS															
SCAP752A.1..G.....	80M	0.75	1415	1.9	1.8	1.7	0.75	79.6	79.6	77.2	5.8	3.1	3.3	0.0020	15.0
SCA1P12A.1..G.....	90S	1.1	1438	2.6	2.4	2.4	0.80	81.4	81.4	78.7	6.1	2.6	2.5	0.0034	24.6
SCA1P52A.1..G.....	90L	1.5	1434	3.4	3.3	3.2	0.80	82.8	82.8	80.1	6.1	2.8	2.5	0.0039	27.4
SCA2P22A.1..G.....	100L	2.2	1441	4.9	4.7	4.5	0.81	84.3	84.3	82.3	6.4	2.7	3.0	0.0062	35
SCA0032A.1..G.....	100L	3.0	1434	6.3	6.0	5.8	0.84	85.5	85.5	85.3	6.4	2.8	3.0	0.0074	38
SCA3P72A.1..G.....	112M	3.7	1445	-	-	6.9	0.87	86.3	86.3	87.3	6.0	2.3	2.6	0.0145	48
SCA0042A.1..G.....	112M	4.0	1450	8.4	7.9	7.7	0.84	86.6	86.6	86.5	7.3	2.7	3.0	0.0145	48
SCA5P52A.1..G.....	132S	5.5	1444	11.1	10.5	10.1	0.86	87.7	87.7	89.0	7.1	2.7	3.0	0.0228	75
SCA7P52A.1..G.....	132M	7.5	1451	15.3	14.5	14.0	0.84	88.7	88.7	88.9	8.3	3.4	3.5	0.0270	84
SCA0112A.1..G.....	160M	11	1465	22.2	21.0	20.3	0.84	89.8	89.8	88.4	6.8	2.3	2.7	0.0900	122
SCA0152A.1..G.....	160L	15	1465	29.6	28.1	27.1	0.85	90.6	90.6	89.3	6.5	2.4	2.6	0.1180	140
SCA18P2A.1..G.....	180M	18.5	1469	35	34	32	0.87	91.2	91.2	91.7	6.2	2.2	2.7	0.1433	193
SCA0222A.1..G.....	180L	22	1471	42	40	39	0.86	91.6	91.6	91.8	6.8	2.5	3.0	0.1694	215
SCA0332A.1..G.....	200L	30	1471	58	55	53	0.85	92.3	92.3	93.0	6.2	2.2	2.8	0.2616	269
SCA0372A.1..G.....	225S	37	1477	70	66	64	0.87	92.7	92.7	93.6	6.2	2.0	2.7	0.5062	344
SCA0452A.1..G.....	225M	45	1475	84	80	77	0.87	93.1	93.1	94.0	6.2	2.1	2.7	0.5637	369
SCA0552A.1..G.....	250M	55	1482	104	99	95	0.86	93.5	93.5	93.9	6.8	2.3	2.8	0.7712	484
SCA0752A.1..G.....	280S	75	1483	138	131	126	0.88	94.0	94.0	94.0	5.8	1.8	2.6	1.6330	648
SCA0902A.1..G.....	280M	90	1485	167	159	153	0.87	94.2	94.2	94.2	6.8	2.2	3.0	1.8420	721
SCA1102A.1..G.....	315S	110	1485	201	191	184	0.88	94.5	94.5	94.9	5.7	1.6	2.6	2.9320	886
SCA1322A.1..G.....	315M	132	1486	241	229	220	0.88	94.7	94.7	95.1	6.2	1.8	2.8	3.2420	937
SCA1602A.1..G.....	315L	160	1487	291	277	267	0.88	94.9	94.9	95.5	6.3	1.9	2.8	3.9770	1086
SCA2002A.1..G.....	315L	200	1486	359	341	329	0.89	95.1	95.1	95.9	6.1	1.9	2.6	5.0620	1243
SCA2502A.1..G.....	355M	250	1490	449	426	411	0.89	95.1	95.1	95.7	6.5	1.9	2.5	8.4430	1728
SCA3152A.1..G.....	355L	315	1489	565	537	518	0.89	95.1	95.1	96.1	6.2	1.8	2.3	9.2130	1813
SCA3552A.1..G.....	355L	355	1490	630	599	577	0.90	95.1	95.1	96.2	6.9	2.1	2.5	10.945	1978
SCA3752A.1..G.....	355L	375	1490	666	632	610	0.90	95.1	95.1	96.3	6.6	2.1	2.4	11.138	2003

• Blue Shaded: For sale by Marathon Electric operations in India only. Performance per IS:12615

• For 60Hz frequency and for higher output designs please contact your regional office. Changes may apply on standard offering for each region.

Please contact nearest Marathon Electric regional office for particular requirement.

PERFORMANCE DATA - SCA (IE2) MOTORS

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%					
6 POLE MOTORS															
SCAP753A.1.G.....	90S	0.75	913	1.9	1.9	1.8	0.77	75.9	75.9	75.1	3.9	2.2	2.2	0.0036	22.9
SCA1P13A.1.G.....	90L	1.1	912	2.8	2.7	2.6	0.76	78.1	78.1	77.5	4.1	2.4	2.4	0.0048	27.0
SCA1P53A.1.G.....	100L	1.5	931	3.7	3.5	3.4	0.77	79.8	79.8	79.0	4.8	2.7	2.7	0.0058	37
SCA2P23A.1.G.....	112M	2.2	962	5.2	5.0	4.8	0.78	81.8	81.8	80.2	6.0	2.3	2.6	0.0180	44
SCA0033A.1.G.....	132S	3.0	957	7.0	6.7	6.4	0.78	83.3	83.3	83.6	6.1	2.5	2.8	0.0211	69
SCA3P73A.1.G.....	132S	3.7	955	-	-	7.9	0.77	84.3	84.3	85.3	6.0	2.6	2.8	0.0256	76
SCA0043A.1.G.....	132M	4.0	953	9.1	8.6	8.3	0.79	84.6	84.6	85.1	6.0	2.6	2.7	0.0256	78
SCA5P53A.1.G.....	132M	5.5	956	12.6	12.0	11.6	0.77	86.0	86.0	85.3	6.7	3.1	3.2	0.0332	90
SCA7P53A.1.G.....	160M	7.5	970	17.0	16.1	15.5	0.77	87.2	87.2	86.2	5.9	2.4	3.6	0.1140	119
SCA0113A.1.G.....	160L	11	970	24.2	22.9	22.1	0.78	88.7	88.7	87.3	5.8	2.4	3.4	0.1530	139
SCA0153A.1.G.....	180L	15	974	31	29.4	28.4	0.82	89.7	89.7	89.4	5.3	2.0	2.3	0.1992	201
SCA18P3A.1.G.....	200L	18.5	977	37	36	34	0.83	90.4	90.4	90.9	5.1	1.7	2.1	0.3254	249
SCA0223A.1.G.....	200L	22	977	44	42	41	0.83	90.9	90.9	91.4	5.3	1.8	2.2	0.3694	266
SCA0303A.1.G.....	225M	30	983	60	57	55	0.83	91.7	91.7	92.6	5.6	2.0	2.3	0.7554	375
SCA0373A.1.G.....	250M	37	987	73	69	66	0.84	92.2	92.2	92.2	6.7	2.3	2.9	1.0661	474
SCA0453A.1.G.....	280S	45	984	86	81	79	0.86	92.7	92.7	93.6	5.7	2.0	2.4	1.9403	616
SCA0553A.1.G.....	280M	55	984	104	99	96	0.86	93.1	93.1	93.9	5.7	2.0	2.3	2.2355	677
SCA0753A.1.G.....	315S	75	989	147	139	134	0.83	93.7	93.7	94.4	5.1	1.6	2.2	3.3734	822
SCA0903A.1.G.....	315M	90	990	175	167	160	0.83	94.0	94.0	94.7	5.2	1.7	2.2	3.9282	888
SCA1103A.1.G.....	315L	110	990	211	200	193	0.84	94.3	94.3	95.0	5.4	1.8	2.2	4.7728	1012
SCA1323A.1.G.....	315L	132	990	252	240	231	0.84	94.6	94.6	95.2	5.5	1.9	2.2	5.4662	1080
SCA1603A.1.G.....	355M	160	991	298	283	273	0.86	94.8	94.8	95.5	6.1	1.9	2.5	8.5699	1609
SCA2003A.1.G.....	355M	200	991	372	353	341	0.86	95.0	95.0	95.8	6.0	1.9	2.4	9.9148	1724
SCA2503A.1.G.....	355L	250	991	460	437	421	0.87	95.0	95.0	95.7	6.1	2.0	2.4	11.708	1867
SCA2803A.1.G.....	355L	280	990	515	489	471	0.87	95.0	95.0	95.6	6.1	2.0	2.4	12.717	1959
8 POLE MOTORS															
SCAP754A.1.G.....	100L	0.75	723	2.6	2.5	2.4	0.66	66.2	66.2	66.2	4.7	1.8	2.7	0.0149	36
SCA1P14A.1.G.....	100L	1.1	722	3.6	3.4	3.3	0.66	70.8	70.8	70.8	4.9	2.0	2.7	0.0172	39
SCA1P54A.1.G.....	112M	1.5	718	4.7	4.4	4.3	0.66	74.1	74.1	72.5	4.4	2.0	2.4	0.0200	52
SCA2P24A.1.G.....	132S	2.2	709	6.2	5.9	5.7	0.69	77.6	77.6	76.9	4.0	1.9	2.2	0.0640	79
SCA0034A.1.G.....	132M	3.0	706	8.3	7.8	7.6	0.69	80.0	80.0	79.5	4.1	2.0	2.3	0.0764	90
SCA3P74A.1.G.....	160 M	3.7	715	-	-	9.0	0.70	81.4	81.4	81.4	6.0	1.9	2.1	0.0890	102
SCA0044A.1.G.....	160M	4.0	715	10.6	10.1	9.7	0.70	81.9	81.9	81.4	6.0	1.9	2.1	0.0890	102
SCA5P54A.1.G.....	160M	5.5	720	13.9	13.2	12.7	0.72	83.8	83.8	83.3	6.0	2.0	2.1	0.1090	115
SCA7P54A.1.G.....	160L	7.5	720	18.3	17.4	16.8	0.73	85.3	85.3	84.6	6.0	2.0	2.1	0.1450	135
SCA0114A.1.G.....	180L	11	723	27.5	26.1	25.2	0.70	86.9	86.9	86.8	4.5	2.0	2.1	0.3646	236
SCA0154A.1.G.....	200L	15	730	35	34	32	0.73	88.0	88.0	89.0	6.1	1.9	3.0	0.7327	300
SCA18P4A.1.G.....	225S	18.5	737	45	42	41	0.71	88.6	88.6	89.1	4.7	1.9	2.4	1.0860	403
SCA0224A.1.G.....	225M	22	736	51	48	46	0.74	89.1	89.1	89.7	4.3	1.7	2.1	1.1910	426
SCA0304A.1.G.....	250M	30	738	66	63	60	0.77	89.8	89.8	90.8	4.9	1.9	2.3	2.1620	552
SCA0374A.1.G.....	280S	37	738	84	80	77	0.74	90.3	90.3	92.6	4.6	1.9	2.3	3.2580	691
SCA0454A.1.G.....	280M	45	738	94	90	86	0.80	90.7	90.7	93.1	4.7	1.9	2.1	3.5330	743
SCA0554A.1.G.....	315S	55	742	128	121	117	0.72	91.0	91.0	91.3	4.3	1.8	2.0	3.7900	853
SCA0754A.1.G.....	315M	75	743	170	162	156	0.73	91.6	91.6	92.1	4.4	1.9	2.0	4.8300	959
SCA0904A.1.G.....	315L	90	743	201	191	184	0.74	91.9	91.9	92.5	4.5	1.9	2.0	5.6620	1042
SCA1104A.1.G.....	355M	110	743	229	218	210	0.79	92.3	92.3	93.8	5.8	1.6	2.7	7.8320	1545
SCA1324A.1.G.....	355M	132	743	271	257	248	0.8	92.6	92.6	94.2	5.9	1.6	2.6	8.9260	1636
SCA1504A.1.G.....	355M	150	742	299	284	274	0.82	92.9	92.9	94.7	5.5	1.5	2.4	9.9100	1727
SCA1604A.1.G.....	355M	160	743	327	310	299	0.80	93.0	93.0	94.4	6.1	1.8	2.7	10.566	1783
SCA1854A.1.G.....	355M	185	743	372	353	341	0.81	93.3	93.3	94.7	6.1	1.8	2.7	12.097	1916
SCA2004A.1.G.....	355L	200	742	392	372	359	0.83	93.5	93.5	95.1	5.8	1.7	2.5	13.190	2011
SCA2204A.1.G.....	355L	220	743	431	409	394	0.83	93.5	93.5	95.1	5.9	1.7	2.5	14.721	2140

- Blue Shaded: For sale by Marathon Electric operations in India only. Performance per IS:12615
- For 60Hz frequency and for higher output designs please contact your regional office.

Changes may apply on standard offering for each region.
Please contact nearest Marathon Electric regional office for particular requirement.

MARATHON TERRAMAX TCA (IE3) MOTORS 50°C AMB

Ready For Tough Environments & Industrial Applications

TCA series motors, built on the global low voltage TerraMAX motor platform, are IE3 efficiency totally enclosed fan cooled motors suitable for general industry applications. The TCA series motors inherit the state of the art premium features of 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 IS 12065 / IEC 60034
- Power Supply: Standard 415V, 50 Hz
(Voltages 200V to 690V and frequency 60Hz on request)
- Ambient: 50°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 degree protection class on request)
- Insulation: Class F with Class B temperature rise
- Bearings: Ball bearing (roller & insulated bearing on request) 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.

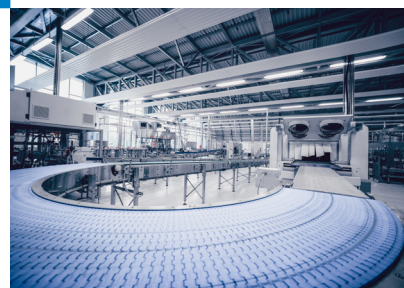
APPLICATIONS

- Pumps
- Machine tools
- Crane & hoist
- Agitator
- Fans
- Material handling
- Textile Machinery
- Packing equipments
- Compressors
- Plastic extruder
- Stone Processing Machinery
- Oil Expeller

CERTIFICATIONS (ON REQUEST)



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PERFORMANCE DATA - TCA (IE3) MOTORS

Model No.	Frame	Rated (kW)	Speed (RPM)	Full Load Amp			Power factor	50 Hz Supply			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		Efficiency							
								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 Marathon Electric operations in India only. Performance per IS:12615

• For 60Hz frequency and for higher output designs please contact your regional office.

Changes may apply on standard offering for each region. Please contact nearest Marathon Electric regional office for particular requirement.

PERFORMANCE DATA -TCA (IE3) MOTORS

Model No.	Frame	Rated (kW)	50 Hz Supply											Moment of Inertia (kgm ²)	Weight (kg)
			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})		
				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 Marathon Electric operations in India only. Performance per IS:12615
- For 60Hz frequency and for higher output designs please contact your regional office.

Changes may apply on standard offering for each region.
Please contact nearest Marathon Electric regional office for particular requirement.

NAMEPLATE

FOR TERRAMAX SCA UL MOTORS

marathon™ TerraMAX™

3~Mot. Ser.No.						Part No.						
Type			IP		Ins.cl:		IC		SF		Duty	
Volts	Conn	Hz	HP/kW	A	r/min	cosφ	η%	IE-CL	IM			
Brgs.								YOM				
Relub.										kg / lbs		

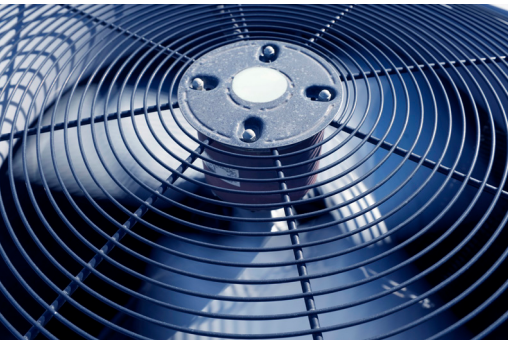
 IEC 60034  E49747  IS: 12615  CM/L 7200131186 **MADE IN INDIA**

FOR TERRAMAX TCA UL MOTORS

marathon™ TerraMAX™

3~Mot. Ser.No.						Part No.						
Type			IP		Ins.cl:		IC		SF		Duty	
Volts	Conn	Hz	HP/kW	A	r/min	cosφ	η%	IE-CL	IM			
Brgs.								YOM				
Relub.										kg / lbs		

 IEC 60034  LISTED E49747 ELECTRIC MOTOR  IS: 12615  CM/L 7200131186 **MADE IN INDIA**





The scope of WEG Group solutions
is not limited to products and solutions
presented in this catalogue.
To see our portfolio, contact us.

marathon[™]
WEG Group



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Cod: 50144496 | Rev: 00 | Date (m/y): 01/2025.

The values shown are subject to change without prior notice.

The information contained is reference values.