TCIM SERIES / HIGH SPECIFICATION

0.75kW to 315kW – Frame 80 to 355

Techtop's TCIM high specification cast iron series motors are designed for severe duty applications and harsh environments.

Based on the TCI series our TCIM high specification motor has the identical electrical performance to the TCI series with additional mechanical features as detailed below:

- IP66 protection
- Class H insulation with Class B rise
- Oil seals fitted at both ends
- Rotating slinger at both ends
- Cast iron fan
- Cast iron fan cowl
- Sintered bronze porous drain plugs
- Stainless steel name plate
- Epoxy paint finish

Please refer to the TCI performance data as detailed on pages 24 & 25 of this catalogue.

Surface Finish
TCIM motors are subject to a two pack epoxy coating system with the final colour being RAL 2008 Bright Red Orange.

Operating parameters
High specification TCIM series motors are designed with the following parameters:

- 380V to 415V, 50Hz & 440V to 480V 60Hz supply
- Continuous (S1) duty
- Ambient temperatures up to 50°C
- Installation up to 1000 MASL
- Service factors up to 1.25

Available options

- Insulated bearing & earth brush
- Winding RTD's
- Bearing RTD's
- Force ventilation
- Auxiliary terminal box

Dimensions
Please refer to page 27 of this catalogue.

TCI / TCIM SERIES PERFORMANCE DATA

Output kW	Full Load Speed [RPM]	Frame Size	Shaft Dia [mm]	Current @ 400v		Efficiency		Power Factor		Torque				Noise Level dB (A)	Weight Foot Mount [Kg]
				Full Load [A]	Locked Rotor [%]	Full Load [%]	3/4 Load [%]	Full Load [%]	3/4 Load [%]	Full Load [Nm]	Locked Rotor [% FLT]	Pull Up [% FLT]	Break Down [% FLT]		
0.75	2880	80A	19	1.76	687	80.1	80.2	0.79	0.71	2.5	292	196	302	64	16
	1420	80B	19	1.94	550	81.1	81.5	0.69	0.60	5	303	270	310	60	18
	940	90S	24	2.22	444	76.3	75.7	0.65	0.54	7.6	225	196	252	58	20
	690	100LA	28	2.21	363	72.3	73.3	0.68	0.58	10.4	177	175	213	55	34
1.1	2880	80A	19	2.39	758	81.2	81.3	0.82	0.74	3.6	283	186	285	64	17
	1420	90S	24	2.57	618	82.8	83.8	0.75	0.67	7.4	296	247	297	60	22
	950	90L	24	2.98	487	78.4	78.7	0.69	0.60	11	207	180	245	59	29
	690	100LA	28	3.17	390	74.8	75.2	0.67	0.57	15.1	198	192	230	55	35
1.5	2880	90S	24	3.19	690	83.1	83.5	0.83	0.75	5.0	276	187	308	68	21
	1440	90L	24	3.44	713	85.5	86.1	0.76	0.68	9.9	316	240	313	60	26
	945	100LA	28	3.71	472	80.1	82	0.74	0.66	15.1	172	161	225	59	34
	700	112M	28	4.18	403	78.4	79.3	0.68	0.59	20.4	182	180	212	55	42
2.2	2890	90L	24	4.61	811	84	84.4	0.83	0.75	7.2	300	222	318	68	22
	1440	100LA	28	4.55	726	85.8	86.6	0.82	0.76	14.6	260	218	305	62	36
	950	112M	28	5.36	547	82.8	83.9	0.73	0.64	22	220	181	271	59	40
	710	132S	38	5.95	420	80.0	80.6	0.67	0.58	29.4	186	174	233	55	68
3	2900	100L	28	5.59	920	87.0	87.6	0.90	0.87	9.9	309	249	351	71	35
	1445	100LB	28	6.27	760	86.0	86.6	0.80	0.73	19.8	239	244	325	62	37
	960	132S	38	6.42	601	85.5	86.6	0.76	0.70	29.6	188	157	258	63	65
	715	132M	38	7.8	529	82.7	83.1	0.70	0.61	39.9	231	203	274	58	77
4	2915	112M	28	7.56	960	87.4	87.7	0.89	0.84	13.1	332	208	365	71	47
	1440	112M	28	8.17	781	87.5	88.2	0.82	0.75	26.4	257	231	335	66	51
	960	132MA	38	9.21	583	84.7	85.6	0.74	0.68	39.6	200	165	257	63	67
	720	160MA	42	9.56	556	85.5	86.0	0.71	0.63	53.0	232	169	254	58	116
5.5	2910	132SA	38	10.3	823	87.8	88.3	0.89	0.85	18.0	244	195	343	69	61
	1460	132SA	38	11.0	856	88.1	88.5	0.83	0.77	35.9	217	193	350	63	65
	960	132MB	38	12.4	654	86.3	87.5	0.75	0.69	54.5	240	184	261	58	68
	720	160MB	42	14.9	600	85.8	84.7	0.63	0.61	74.0	230	190	260	58	147
7.5	2920	132SA	38	13.9	1029	89.2	89.6	0.89	0.86	24.5	314	202	366	69	66
	1450	132M	38	14.3	823	89.5	90.4	0.85	0.82	49.4	299	117	295	63	77
	980	160M	42	17.5	855	89.7	89.4	0.71	0.63	73.0	331	194	336	61	120
	720	160L	42	18.6	600	87.2	86.9	0.67	0.64	100.1	240	190	270	58	147
11	2950	160MA	42	19.5	858	89.9	90.2	0.91	0.89	35.6	260	93	302	75	113
	1470	160M	42	20.4	838	91.7	91.7	0.86	0.81	71.3	287	203	329	67	125
	975	160L	42	23.8	818	89.4	89.7	0.75	0.68	107.5	309	140	152	61	135
	730	180L	48	23.8	660	88.8	88.7	0.75	0.69	145.9	230	200	280	58	183
15	2950	160MB	42	25.8	901	91.8	92.1	0.92	0.90	48.4	257	132	316	75	132
	1470	160L	42	27.4	881	91.1	91.5	0.88	0.84	97.4	253	177	316	67	140
	980	180L	48	31.4	882	89.6	88.9	0.77	0.70	145.7	267	153	322	61	183
	730	200L	55	30.6	660	90.0	90.1	0.78	0.76	198.9	220	200	290	61	240
18.5	2950	160L	42	32.0	976	92.1	92.6	0.92	0.91	59.8	302	140	332	75	146
	1470	180M	48	33.2	786	91.8	92	0.88	0.84	120.1	254	194	311	67	158
	980	200LA	55	36.9	853	91.2	91.2	0.81	0.74	179.4	207	139	320	63	232
	730	225S	60	38.7	660	90.7	90.4	0.76	0.72	243.7	220	200	320	66	315
22	2950	180M	48	39.1	843	91.2	91	0.90	0.88	71.2	266	163	330	75	177
	1465	180L	48	38.9	767	91.9	92.5	0.89	0.86	143.1	225	155	269	67	183
	980	200LB	55	42.6	1031	91.9	92.1	0.83	0.78	213.5	313	156	342	63	250
	740	225M	60	43.5	660	91.2	91.4	0.80	0.78	289.7	210	190	310	66	348

TCI / TCIM SERIES PERFORMANCE DATA CONTINUED

Output kW	Full Load Speed [RPM]	Frame Size	Shaft Dia [mm]	Current @ 400v		Efficiency		Power Factor		Torque				Noise Level dB (A)	Weight Foot Mount [Kg]
				Full Load [A]	Locked Rotor [%]	Full Load [%]	3/4 Load [%]	Full Load [%]	3/4 Load [%]	Full Load [Nm]	Locked Rotor [% FLT]	Pull Up [% FLT]	Break Down [% FLT]		
30	2955	200LA	55	52.9	703	92.0	92.3	0.90	0.88	96.9	205	104	254	75	233
	1480	200L	55	57.2	814	92.5	92.7	0.82	0.76	193.5	237	191	295	70	242
	985	225M	60	54.9	815	91.9	92.4	0.86	0.83	290.5	264	151	257	66	335
	740	250M	65	61.5	660	92.1	91.6	0.76	0.71	392.4	210	190	270	66	397
37	2955	200LB	55	64.9	759	92.7	93.1	0.90	0.88	119.6	244	144	260	75	246
	1475	225S	60	65.4	743	91.2	90.7	0.85	0.82	239.1	222	147	243	70	315
	980	250M	65	68.7	646	93.2	93.3	0.85	0.82	359.2	186	135	232	66	398
	740	280S	75	73.5	660	92.7	92.5	0.78	0.74	484.0	210	180	250	66	500
45	2955	225M	55	77.6	744	93.2	93.4	0.91	0.89	145.2	273	113	251	75	322
	1475	225M	60	85.1	695	93.1	92.9	0.83	0.78	290.5	207	187	333	70	352
	985	280S	75	81.5	850	92.7	93.0	0.86	0.82	434.7	284	156	272	66	505
	740	280M	75	88.9	660	93.2	93.1	0.78	0.77	584.7	200	180	250	66	594
55	2970	250M	60	93.3	892	94.5	94.3	0.91	0.90	176.8	302	142	299	77	420
	1480	250M	65	98.7	805	93.6	93.9	0.86	0.83	354.4	264	167	268	70	420
	985	280M	75	99.0	897	93.5	93.6	0.87	0.83	531.3	321	181	311	66	596
	740	315S	80	107.2	750	93.7	93.1	0.79	0.76	709.8	200	180	240	69	1025
75	2970	250MB	60	126.3	970	94.3	94.2	93.2	0.91	241.0	291	153	339	77	475
	2970	280S	65	125.3	898	93.9	93.9	0.93	0.93	241.0	256	105	281	78	572
	1480	250MB	65	131.4	755	94.0	93.8	0.89	0.85	485.6	258	149	230	70	448
	1480	280S	75	127.7	756	94.9	95.2	0.90	0.89	482.5	254	211	237	73	570
	980	315S	80	128.9	790	94.4	94.1	0.89	0.86	730.8	210	190	250	73	809
	740	315M	80	145.2	770	94.4	94.0	0.79	0.75	967.8	200	180	230	69	1108
90	2970	280M	65	148.3	1009	94.5	94.3	0.93	0.92	289.1	294	123	302	78	637
	1485	280M	75	152.9	860	94.4	94.8	0.92	0.90	578.7	297	229	260	73	658
	980	315M	80	152.3	800	94.8	94.2	0.90	0.88	877.0	200	180	230	73	962
	740	315LA	80	171.5	780	94.7	94.5	0.80	0.78	1161.4	200	180	220	69	1155
110	2980	315S	65	185.5	770	95.1	95.2	0.90	0.88	357.3	190	170	225	80	1008
	1480	280MB	75	188.4	773	94.7	94.6	0.89	0.88	709.8	246	172	308	73	658
	1485	315S	80	185.1	780	95.3	95.1	0.91	0.89	709.8	210	180	230	77	1049
	980	315LA	80	185.5	770	95.1	95.3	0.90	0.87	1071.9	200	180	235	73	989
132	2980	315M	65	219.5	760	95.4	95.2	0.91	0.89	428.7	190	160	220	80	1062
	1485	315M	80	222.8	700	95.0	94.2	0.90	0.87	848.9	248	164	323	77	1049
	980	315LB	80	224.4	800	95.4	95.1	0.89	0.87	1286.2	200	175	230	73	1082
160	2980	315LA	65	268.7	780	95.5	95.4	0.90	0.90	518.8	205	180	240	80	1222
	1485	315LA	80	265.2	790	95.7	95.5	0.91	0.91	1032.4	200	180	230	77	1222
	985	355MA	100	265.5	760	95.6	95.3	0.91	0.89	1559.0	220	195	238	82	1580
	745	355MB	100	287.3	780	95.7	95.4	0.84	0.82	2050.9	200	180	235	79	1740
200	2985	315LB	65	339.7	790	95.5	95.2	0.89	0.88	648.5	215	170	240	80	1240
	1490	315LB	80	335.2	770	95.7	95.6	0.90	0.90	1290.5	200	180	235	77	1190
	985	355MB	100	336.0	760	95.6	95.7	0.90	0.88	1948.8	210	190	245	82	1760
	745	355LB	100	350.8	770	95.7	95.5	0.86	0.85	2563.6	205	185	235	79	1990
250	2985	355M	75	419.8	780	95.5	95.2	0.90	0.89	810.6	200	180	240	86	1780
	1490	355M	100	423.7	790	95.7	95.4	0.89	0.87	1613.0	230	190	260	84	1820
	985	355LB	100	424.1	780	95.6	95.2	0.89	0.86	2436.0	210	190	250	82	1990
315	2985	355LB	75	531.8	740	95.0	95.6	0.90	0.86	1021.4	225	195	240	86	1780
	1490	355LB	100	532.3	758	95.8	96.1	0.89	0.89	2020.3	275	185	255	84	1700