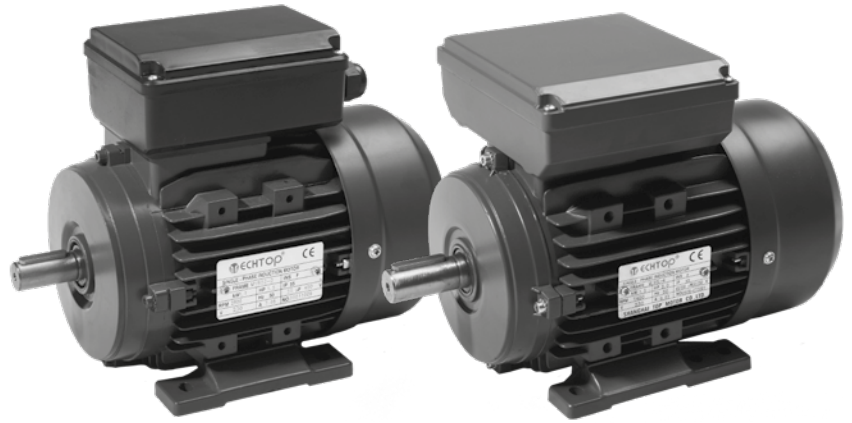


0.06kW to 3.7kW – Sizes 56 to 112

Techtop's TM series are ideally suited to general purpose applications and are available in both permanent split capacitor (TMY) and cap/start-cap/run (TML) series.



Operating parameters

Standard TM series motors are designed with the following parameters:

- ⚡ 220V to 240V, 50Hz supply
- ⚡ Continuous (S1) duty
- ⚡ Ambient temperatures up to 40°C
- ⚡ Installation up to 1000 MASL

Standards

Dimensions and rated outputs for the TM series conform to Australian Standard AS/NZS 1359 and International Standards IEC 60034 and IEC 60072.

Insulation class

TM motors are insulated with Class F materials and limited to Class B temperature rise.

IP Protection

The standard degree of enclosure protection is IP 55 (increased IP protection is available). Shafts are fitted with an oil seal as standard.

Thermal Protection

TMY series are fitted with an in-winding auto-reset overload up to 0.75kW.

TML series are fitted with a manual reset overload up to 2.2kW.

Multi-mount design

As standard, TM series motors are fitted with detachable feet. The multi-mount design allows for the motor feet to be removed and repositioned to either side to produce a side mounted terminal box.

Fan & Gearbox application

TM series motors are low weight design and come standard a drilled and tapped hole in the shaft which makes this series ideal for fan applications. This motor series is also ideally suited for fitting to aluminium gearboxes.

Terminal box

The terminal box is manufactured from aluminium and is mounted on top of the motor as standard.

Surface Finish

As standard TM motors are powder coat finish with the final colour being RAL 9005 Jet Black. Other colours are available upon request.

Bearings

Bearings fitted are high quality NSK deep groove ball bearings that are sealed for life.

Frame Size	Bearing Size DE/NDE
56	6201 ZZ
63	6201 ZZ
71	6202 ZZ
80	6204 ZZ
90	6205 ZZ
100	6206 ZZ
112	6206 ZZ

Part Number Logic

Detailed below is the part number logic which should be specified when placing orders. The part number is composed in accordance with the following example:

T	A	4	B	0	1	1	3	TML
1	2	3	4	5-7		8	9-11	

Position 1

T = Techtop

Position 2

A = Aluminium

Position 3

2 = 2 Pole

4 = 4 Pole

6 = 6 Pole

Position 4

A = less than 0.99kW

B = 1.0kW to 9.9kW

Position 5 to 7

Output kW

Position 8

Mounting position

1 = V1

3 = B3

4 = B3/5

5 = B5

6 = B3/B14A

7 = B14A

8 = B14B

9 = B3/B14B

A = B5R

B = B3/B5R

Position 9 to 11

TML = CS/CR series

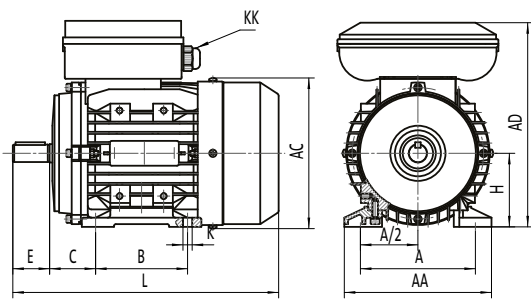
TMY = PSC series



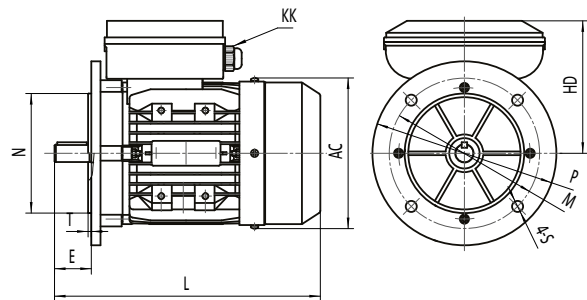
TML SERIES PERFORMANCE DATA

Output kW	Full Load Speed [RPM]	Frame Size	Shaft Dia [mm]	Current @ 240v		Efficiency Full Load [%]	Power Factor Full Load [%]	Torque			Capacitor		Weight Foot Mount [Kg]
				Full Load [A]	Locked Rotor [%]			Full Load [Nm]	Locked Rotor [% FLT]	Break Down [% FLT]	Start Capacitor [mfd/volt]	Run Capacitor [mfd/volt]	
0.18	2820	63A	11	1.3	514	62.0	0.93	0.61	190	180	30/250	8/450	3.9
0.25	2800	63B	11	1.6	468	67.5	0.94	0.85	230	180	30/250	10/450	4.4
0.37	2780	71A	14	2.3	620	70.0	0.95	1.3	250	170	75/250	12/450	5.3
0.55	2790	71B	14	3.3	580	73.0	0.95	1.9	250	170	100/250	16/450	7.4
0.75	2800	80A	19	4.4	660	74.0	0.97	2.6	250	170	100/250	20/450	9.5
1.1	2810	80B	19	6.2	620	76.0	0.97	3.7	250	170	150/250	30/450	11.2
1.5	2810	90S	24	8.3	640	78.0	0.97	5.1	250	180	200/300	40/450	14.0
2.2	2810	90L	24	12	600	79.0	0.97	7.5	220	180	250/300	50/450	17.0
3	2830	100L	28	15.9	570	80.0	0.98	10.1	220	200	350/300	60/450	25.0
3.7	2900	112M	28	19.1	779	82.5	0.98	12.2	250	180	400/300	60/450	31.0
0.12	1380	63A	11	1.0	594	54.5	0.95	0.83	250	165	30/250	8/450	4.1
0.18	1320	63B	11	1.4	470	55.0	0.99	1.3	250	150	40/450	12/450	4.9
0.25	1380	71A	14	1.9	520	61.0	0.92	1.7	250	160	50/250	14/450	5.9
0.37	1380	71B	14	2.7	540	63.0	0.92	2.6	250	150	75/250	16/450	6.9
0.55	1400	80A	19	3.6	530	67.0	0.94	3.8	250	170	100/250	20/450	9.6
0.75	1410	80B	19	4.5	630	73.0	0.94	5.1	250	170	120/250	25/450	10.8
1.1	1410	90S	24	6.5	590	75.0	0.95	7.5	220	180	150/250	35/450	13.5
1.5	1420	90L	24	8.7	610	76.0	0.95	10.1	220	180	200/300	40/450	16.5
2.2	1430	100LA	28	12.1	600	78.0	0.97	14.7	220	180	350/300	50/450	24.0
3	1440	100LB	28	16.3	560	79.0	0.97	19.9	220	180	500/300	60/450	30.0
3.7	1440	112M	28	19.8	580	80.0	0.97	24.5	200	200	500/300	60/450	36.0
0.18	930	71A	14	1.30	520	60.0	0.97	1.85	230	172	40/250	10/450	6.2
0.25	940	71B	14	1.85	470	58	0.97	2.54	230	180	40/250	16/450	6.8
0.37	935	80A	19	2.38	520	67.0	0.97	3.78	220	155	50/250	16/450	10.1
0.55	935	80B	19	3.33	540	71.0	0.97	5.62	220	145	75/250	20/450	10.8
0.75	945	90S	24	4.55	680	71.0	0.97	7.58	210	145	150/250	30/450	13.7
1.1	945	90L	24	6.45	680	74.0	0.96	11.1	250	145	200/300	45/450	17.3
1.5	960	100LA	28	8.37	700	77.0	0.97	14.9	230	155	200/300	45/450	23.8
2.2	965	112M	28	11.5	830	82.0	0.97	21.8	250	170	400/300	60/450	31.2

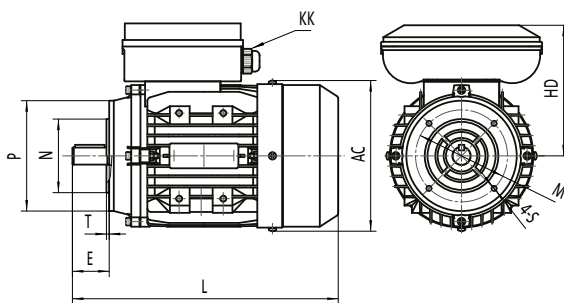
TML SERIES MOTOR OUTLINE DIMENSIONS



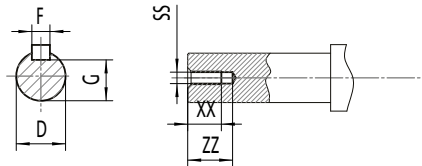
B3



B5



B14



SHAFT

TML SERIES DIMENSIONAL DATA

FRAME	Foot Mounting				Shaft								General				
	H	A	B	C	D	E	F	G	K	SS	XX	ZZ	AA	AD	HD	AC	L
TML 63	63	100	80	40	11	23	4	8.5	7	M4	10	14	120	179	116	130	215
TML 71	71	112	90	45	14	30	5	11	7	M5	12	17	132	194	123	147	255
TML 80	80	125	100	50	19	40	6	15.5	10	M6	16	21	160	223	143	163	290
TML 90S	90	140	100	56	24	50	8	20	10	M8	19	25	175	240	150	183	335
TML 90L	90	140	125	56	24	50	8	20	10	M8	19	25	175	240	150	183	365
TML 100L	100	160	140	63	28	60	8	24	12	M10	22	30	198	271	171	205	405(423)
TML 112M	112	190	140	70	28	60	8	24	12	M10	22	30	220	297	185	229	435

FRAME	KK	B5					B14A					B14B					
		N	M	P	S	T	N	M	P	S	T	N	M	P	T	S	
TML 63	1-M20*1.5	95	115	140	4-10	3	60	75	90	M5	2.5						
TML 71	1-M20*1.5	110	130	160	4-10	3.5	70	85	105	M6	2.5	95	115	140	3	M8	
TML 80	1-M20*1.5	130	165	200	4-12	3.5	80	100	120	M6	3	110	130	160	3.5	M8	
TML 90	1-M20*1.5	130	165	200	4-12	3.5	95	115	140	M8	3	110	130	160	3.5	M8	
TML 100	1-M20*1.5	180	215	250	4-15	4	110	130	160	M8	3.5	130	165	200	3.5	M10	
TML 112	1-M25*1.5	180	215	250	4-15	4	110	130	160	M8	3.5	130	165	200	3.5	M10	