# PRODUCT INFORMATION PACKET



Model No: TCAP752A1111GAC010 Catalog No: TCAP752A1111GAC010

TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 80M Frame, TEFC



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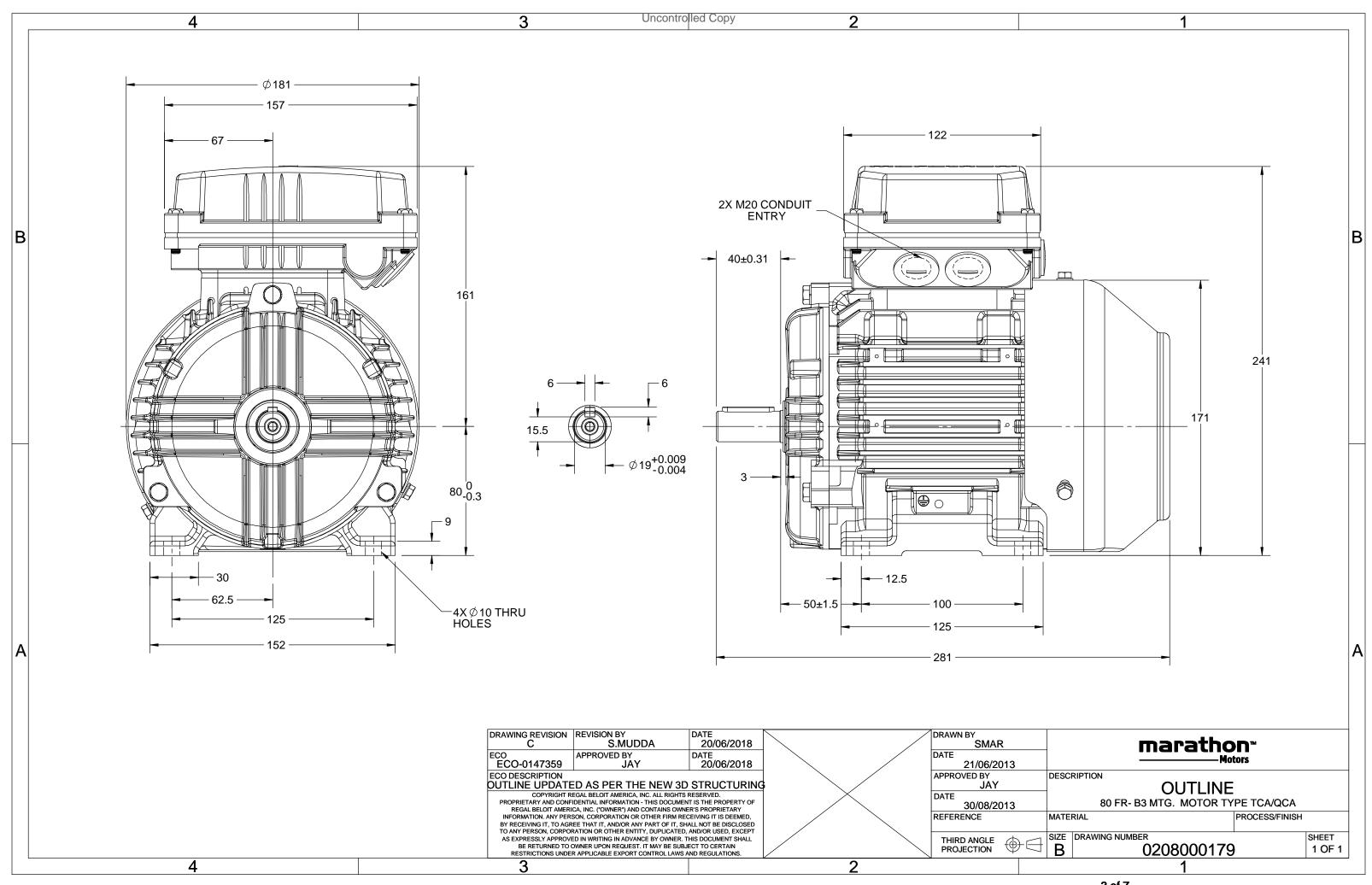
## Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 V
Current	1.8 A	Speed	1446 rpm
Service Factor	1	Phase	3
Efficiency	82.5 %	Power Factor	0.75
Duty	<b>S1</b>	Insulation Class	F
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
UL	No	CSA	No
CE	Yes	IP Code	55
Efficiency Class	IE3		

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	281 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0208000179

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

### **NEW DRAWING RELEASE**

GEOMENTRIC TOLERANCE								
	>0~6	±0.1						
LINEAR DIM	>6~30	±0.2						
	>30~120	±0.3						



## NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







#### Model No. TCAP752A1111GAC010

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load	t	PF	at lo	oad	I <sub>A</sub> /I <sub>N</sub>	T <sub>A</sub> /T <sub>N</sub>	$T_K/T_N$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	Υ	50	0.75	1	1.7	1446	4.92	IE3	-	82.5	82.5	77.6	0.75	0.66	0.51	6.6	3.0	3.0

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	80M	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistance)	80 [ Class B ]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6204-2Z / 6204-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	22	kg
Gross weight - approx.	23	kg
Motor inertia	0.0031	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level ( 1meter distance from mo	tor) 54	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	S
Direction of rotation	<b>Bi-directional</b>	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size	1R x 3C x 10mm²/2 x M20 x 1.5	
Auxiliary terminal box	NA	

I<sub>A</sub>/I<sub>N</sub> - Locked Rotor Current / Rated Current

 $T_A/T_N$  - Locked Rotor Torque / Rated Torque

 $T_K/T_N$  - Breakdown Torque / Rated Torque

#### NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

 $\ensuremath{^{*}}$  Voltage, Frequency and combine variation are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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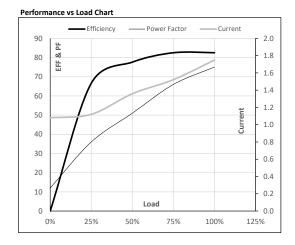




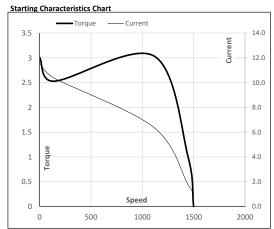
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Enclosure	U	$\Delta / Y$	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Υ	50	0.75	1.0	1.7	1446	0.50	4.92	IE3	40	S1	1000	0.0031	21

#### Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 1.1 1.4 1.5 1.7 1.1 3.7 Torque Nm 0.0 1.2 2.4 4.9 1500 1474 1446 Speed r/min 1486 1461 Efficiency % 0.0 66.6 77.6 82.5 82.5 Power Factor 12.0 36.0 51.0 66.0 75.0



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 136 1112 1446 1500 0 Speed r/min 1.7 Current Α 11.5 10.4 6.4 1.1 Torque 3.0 pu



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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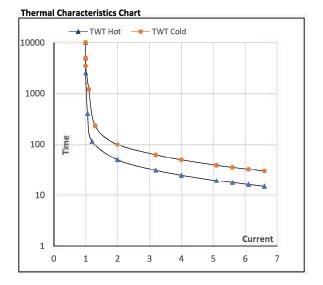




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Υ	50	0.75	1.0	1.7	1446	0.50	4.92	IE3	40	S1	1000	0.0031	21

<b>Motor Spee</b>	d Torq	ue Data		Motor Speed Torque Data												
Load		FL	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	$I_4$	l <sub>5</sub>	LR								
TWT Hot	s	10000	50	34	25	22	18	15								
TWT Cold	s	10000	99	65	50	42	37	30								
Current	pu	1	2	3	4	5	5.5	6.6								



**NOTE** Refer data sheet for applicable standard and tolerances on performance parameters

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