## PRODUCT INFORMATION PACKET

# marathon®

Model No: TCA0551A1111GAC010
Catalog No: TCA0551A1111GAC010

TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 250M Frame, TEFC



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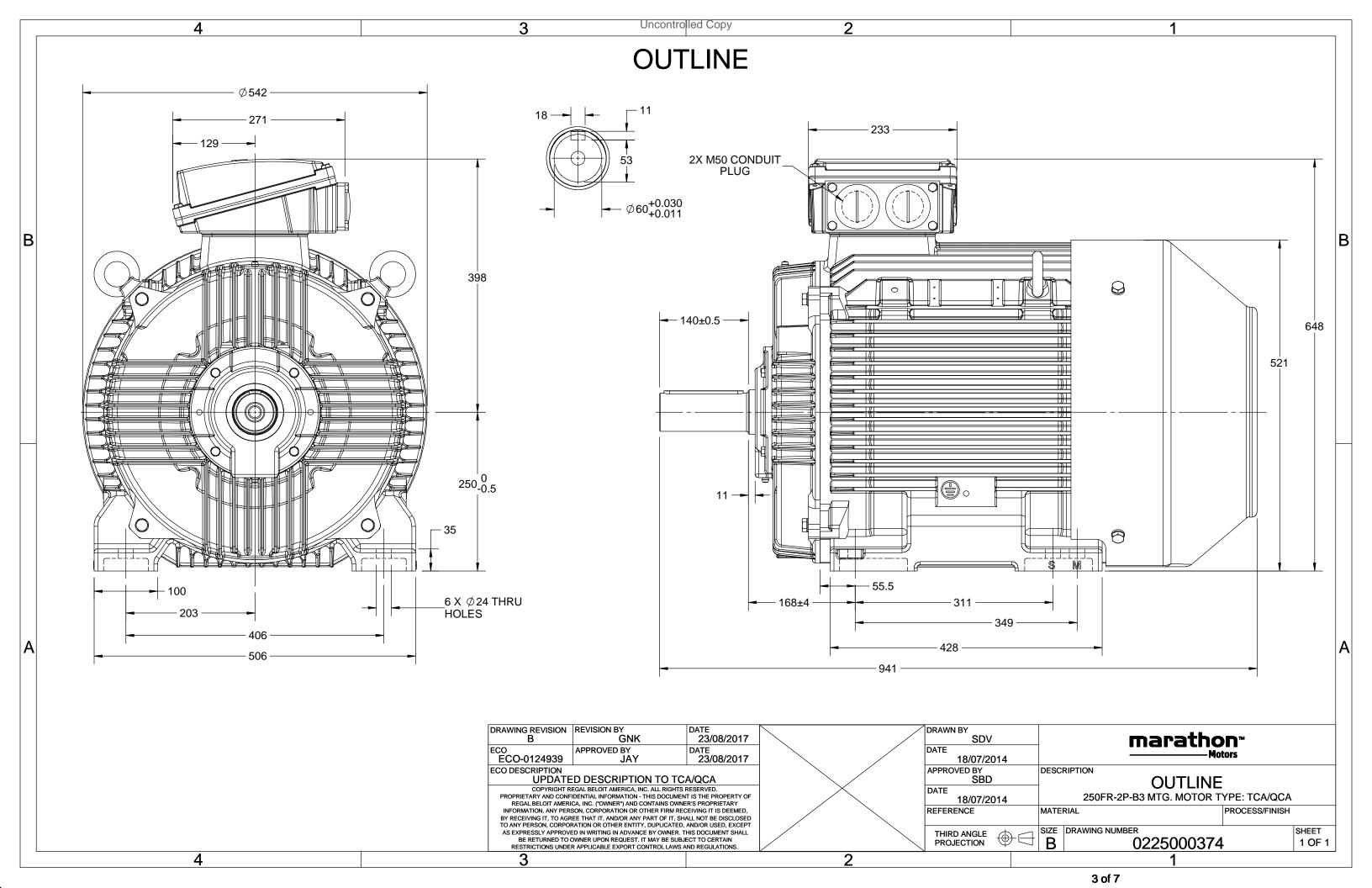
## Nameplate Specifications

Phase	3	Output HP	75 Hp
Output KW	55.0 kW	Voltage	400 V
Speed	2977 r/min	Service Factor	1
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.3 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	94.6 A	Power Factor	0.89
Duty	<b>S</b> 1	Insulation Class	F
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	No	CSA	No
CE	Yes	IP Code	55
Efficiency Class	IE3		

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	941 mm	Frame Length	460 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0225000374

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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. TCA0551A1111GAC010

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load	t	PF	at lo	ad	$I_A/I_N$	$T_A/T_N$	$T_K/T_N$
(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	Δ	50	55	75	94.6	2977	179.37	IE3	-	94.3	94.3	93	0.89	0.86	0.78	7	1.9	3.4

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6314 C3
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or Equivalent

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	489	kg
Gross weight - approx.	524	kg
Motor inertia	0.6214	kgm <sup>2</sup>
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level ( 1meter distance from mo	tor) 75	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	Bi-directional	
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 95mm <sup>2</sup> /2 x M50 x 1.5	
Auxiliary terminal box	NA	

 $\rm I_A/I_N$  - 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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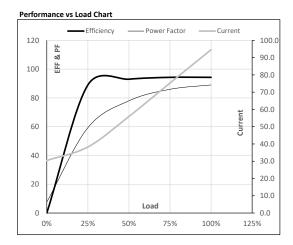




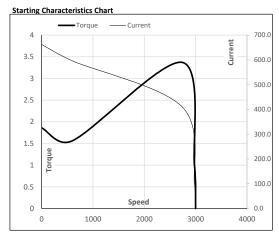
### Model No. TCA0551A1111GAC010

Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	T	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	Δ	50	55	75.0	94.6	2977	18.29	179.37	IE3	40	S1	1000	0.6214	489

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	30.4	38.3	55.9	75.3	94.6	
Torque	Nm	0.0	44.6	89.3	134.3	179.4	
Speed	r/min	3000	2994	2989	2983	2977	
Efficiency	%	0.0	89.0	93.0	94.3	94.3	
Power Factor	%	7.6	59.3	78.0	86.0	89.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 600 2739 2977 3000 Speed r/min Current Α 662.1 595.9 410.3 94.6 30.4 Torque pu



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

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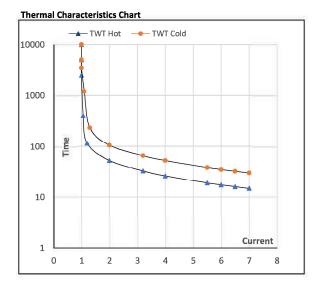




#### Model No. TCA0551A1111GAC010

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	Δ	50	55	75.0	94.6	2977	18.29	179.37	IE3	40	S1	1000	0.6214	489

Load	-	FL	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	LR
TWT Hot	s	10000	53	35	26	22	19	15
TWT Cold	s	10000	105	75	53	45	38	30
Current	pu	1	2	3	4	5	5.5	7



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

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