# PRODUCT INFORMATION PACKET



Model No: QCA7P52A1111GAA001 Catalog No: QCA7P52A1111GAA001

TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 132M Frame, TEFC



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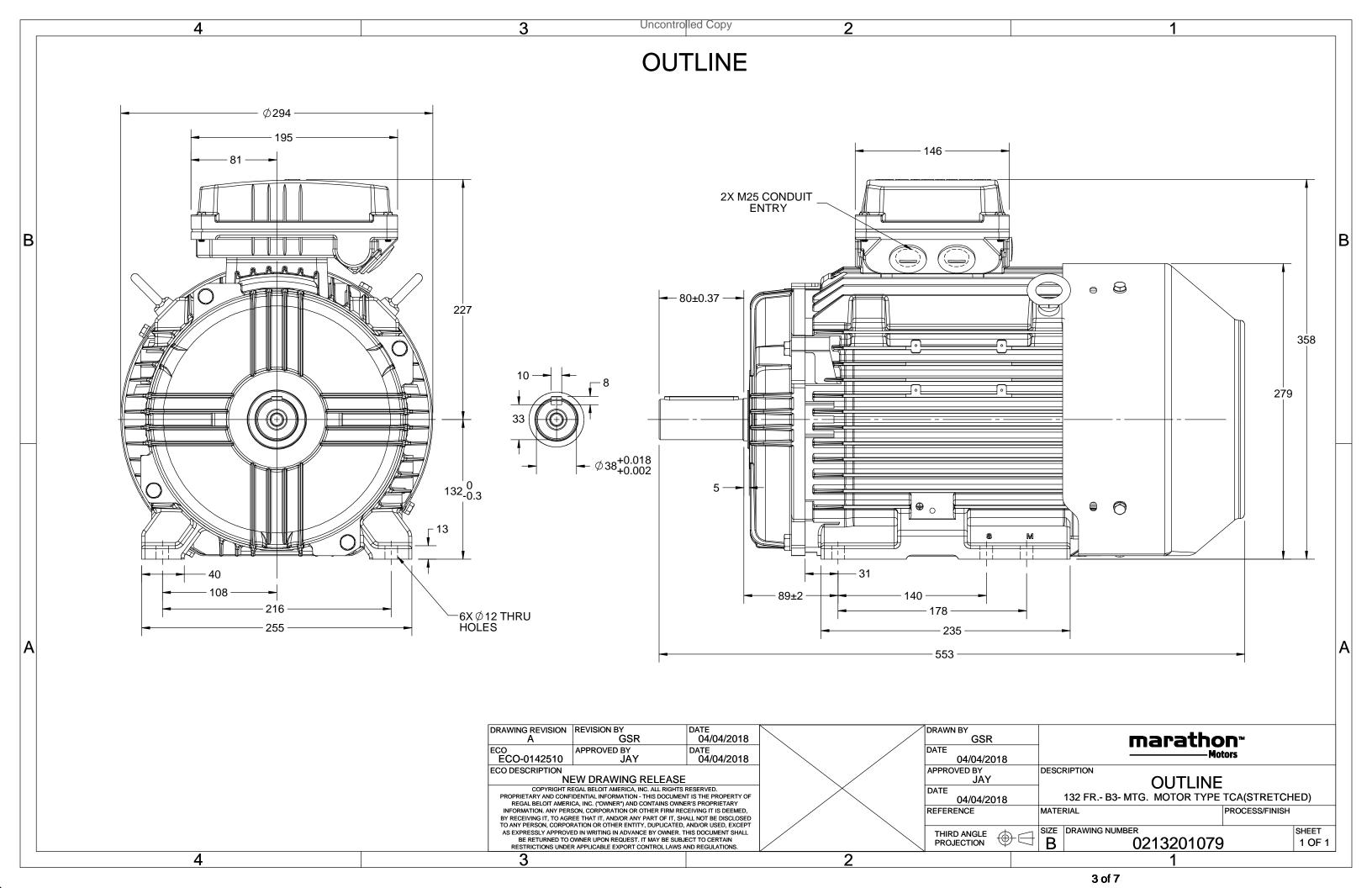
### Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	50 Hz	Voltage	400 V
Current	15.3 A	Speed	1472 rpm
Service Factor	rvice Factor 1 Pha		3
Efficiency	92.6 %	Power Factor	0.77
Duty	<b>S1</b>	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE4

## **Technical Specifications**

Squirrel Cage	Starting Method	Direct On Line
4	Rotation	Bi-Directional
В3	Motor Orientation	Horizontal
2z-C3	Opp Drive End Bearing	2z-C3
Cast Iron	Shaft Type	Keyed
553 mm	Frame Length	290 mm
38 mm	Shaft Extension	80 mm
Тор		
0213201079	Connection Drawing	8442000085
	4 B3 2z-C3 Cast Iron 553 mm 38 mm Top	4 Rotation  B3 Motor Orientation  2z-C3 Opp Drive End Bearing  Cast Iron Shaft Type  553 mm Frame Length  38 mm Shaft Extension  Top

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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. QCA7P52A1111GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	t load	ł	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_K/T_N$
(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	7.5	10	15.2	1472	48.42	IE4	-	92.6	92.6	91.5	0.77	0.7	0.56	7.5	3.0	3.4

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	132M	
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	6308-2Z / 6208-2Z	
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.	100	kg
Gross weight - approx.	103	kg
Motor inertia	0.0579	kgm <sup>2</sup>
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level ( 1meter distance from mot	or) 61	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 16mm <sup>2</sup> /2 x M25 x 1.5	
Auxiliary terminal box	NA	

 $I_A/I_N$  - 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  $\,$ 

Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2004	-	IEC:60034-30-1

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 $<sup>\</sup>ensuremath{^{*}}$  Voltage, Frequency and combined variation are as per IEC60034-1

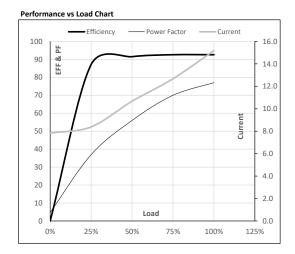




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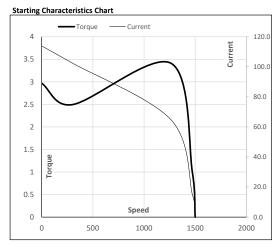
			P	Р	ı	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC 400	Δ	50	7.5	10	15.2	1472	4.94	48.42	IE4	40	S1	1000	0.0579	100

#### Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 7.8 8.4 10.7 12.7 15.2 Torque Nm 0.0 11.9 24.0 36.1 48.4 Speed r/min 1500 1493 1486 1479 1472 Efficiency % 0.0 87.1 91.5 92.6 92.6 56.0 70.0 Power Factor 4.7 36.9 77.0



### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1265	1472	1500	
Current	Α	113.9	102.5	64.7	15.2	7.8	
Torque	pu	3.0	2.5	3.4	1	0	



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

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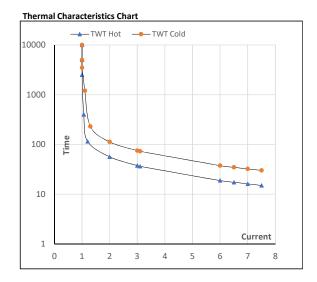




### Model No. QCA7P52A1111GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	7.5	10	15.2	1472	4.94	48.42	IE4	40	S1	1000	0.0579	100

Motor Speed	Torq	ue Data						
Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	LR
TWT Hot	S	10000	56	38	30	25	20	15
TWT Cold	S	10000	113	75	60	50	39	30
Current	pu	1	2	3	4	5	5.5	7.5



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

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