# PRODUCT INFORMATION PACKET



Model No: QCA0043AF111GAA001 Catalog No: QCA0043AF111GAA001

TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 132M Frame, TEFC





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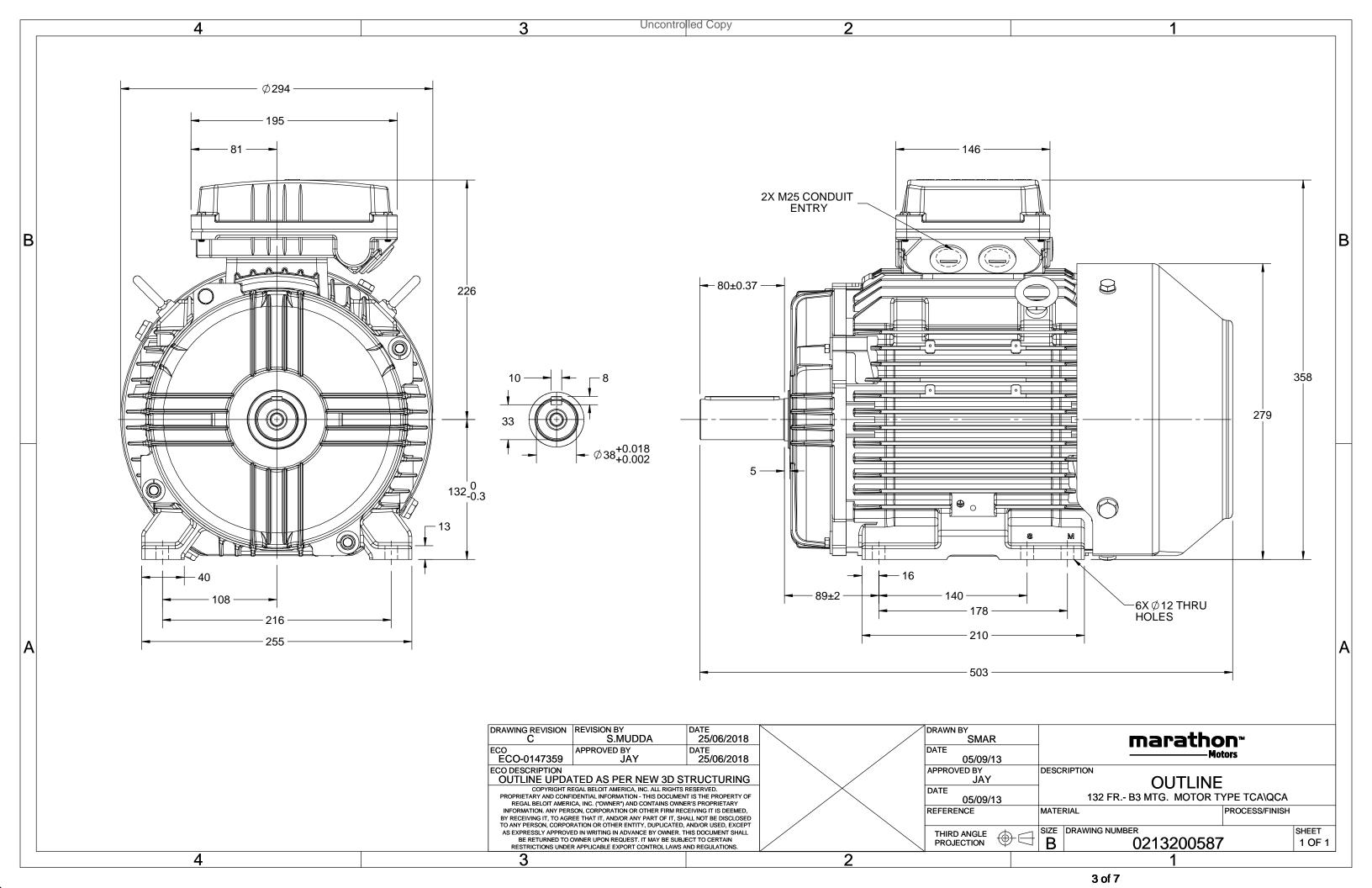
## Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	380 V
Current	9.3 A	Speed	978 rpm
Service Factor	1	Phase	3
Efficiency	89.5 %	Power Factor	0.74
Duty	S1	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**

Poles6RotationBi-DirectionalMountingB3Motor OrientationHorizontalDrive End Bearing2z-C3Opp Drive End Bearing2z-C3Frame MaterialCast IronShaft TypeKeyedOverall Length503 mmFrame Length240 mmShaft Diameter38 mmShaft Extension80 mmAssembly/Box MountingTopConnection Drawing8442000085Outline Drawing0213200587	Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Drive End Bearing 2z-C3 Opp Drive End Bearing 2z-C3  Frame Material Cast Iron Shaft Type Keyed  Overall Length 503 mm Frame Length 240 mm  Shaft Diameter 38 mm Shaft Extension 80 mm  Assembly/Box Mounting Top	Poles	6	Rotation	Bi-Directional	
Frame Material Cast Iron Shaft Type Keyed  Overall Length 503 mm Frame Length 240 mm  Shaft Diameter 38 mm Shaft Extension 80 mm  Assembly/Box Mounting Top	Mounting	В3	Motor Orientation	Horizontal	
Overall Length503 mmFrame Length240 mmShaft Diameter38 mmShaft Extension80 mmAssembly/Box MountingTop	Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Shaft Diameter 38 mm Shaft Extension 80 mm Assembly/Box Mounting Top	Frame Material	Cast Iron	Shaft Type	Keyed	
Assembly/Box Mounting Top	Overall Length	503 mm	Frame Length	240 mm	
	Shaft Diameter	38 mm	Shaft Extension	80 mm	
Connection Drawing 8442000085 Outline Drawing 0213200587	Assembly/Box Mounting	Тор			
osimosian pianing on account	Connection Drawing	8442000085	Outline Drawing	0213200587	

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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. QCA0043AF111GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	% 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]
380	Δ	50	4	5.5	9.3	978	40.12	IE4	-	89.5	89.5	88	0.74	0.66	0.51	6.6	2.4	3.0

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.	86	kg
Gross weight - approx.	89	kg
Motor inertia	0.0660	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level ( 1meter distance from mo	tor) 59	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 16mm²/2 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

 $\ensuremath{^{*}}$  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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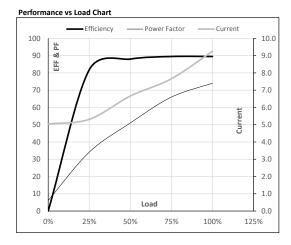




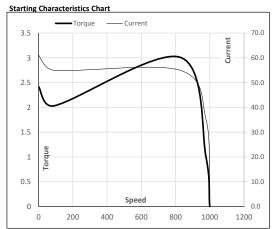
## Model No. QCA0043AF111GAA001

Enclosure	U	Δ/Υ	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	380	Δ	50	4	5.5	9.3	978	4.09	40.12	IE4	40	S1	1000	0.0660	86

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	5.0	5.3	6.7	7.7	9.3	
Torque	Nm	0.0	9.9	19.8	29.9	40.1	
Speed	r/min	1000	995	989	984	978	
Efficiency	%	0.0	81.8	88.0	89.5	89.5	
Power Factor	%	6.1	34.1	51.0	66.0	74.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 91 828 978 1000 Speed r/min Current Α 61.1 55.0 35.3 9.3 5.0 Torque pu



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

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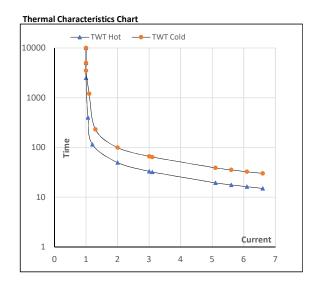




#### Model No. QCA0043AF111GAA001

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	380	Υ	50	4.0	5.5	9.3	978	4.09	40.12	IE4	40	S1	1000	0.0660	86

Motor Speed	Motor Speed Torque 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	50	33	27	20	17	15						
TWT Cold	S	10000	99	66	50	40	36	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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