PRODUCT INFORMATION PACKET



Model No: QCA5P52AF111GAA001 Catalog No: QCA5P52AF111GAA001

TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 132S Frame, TEFC





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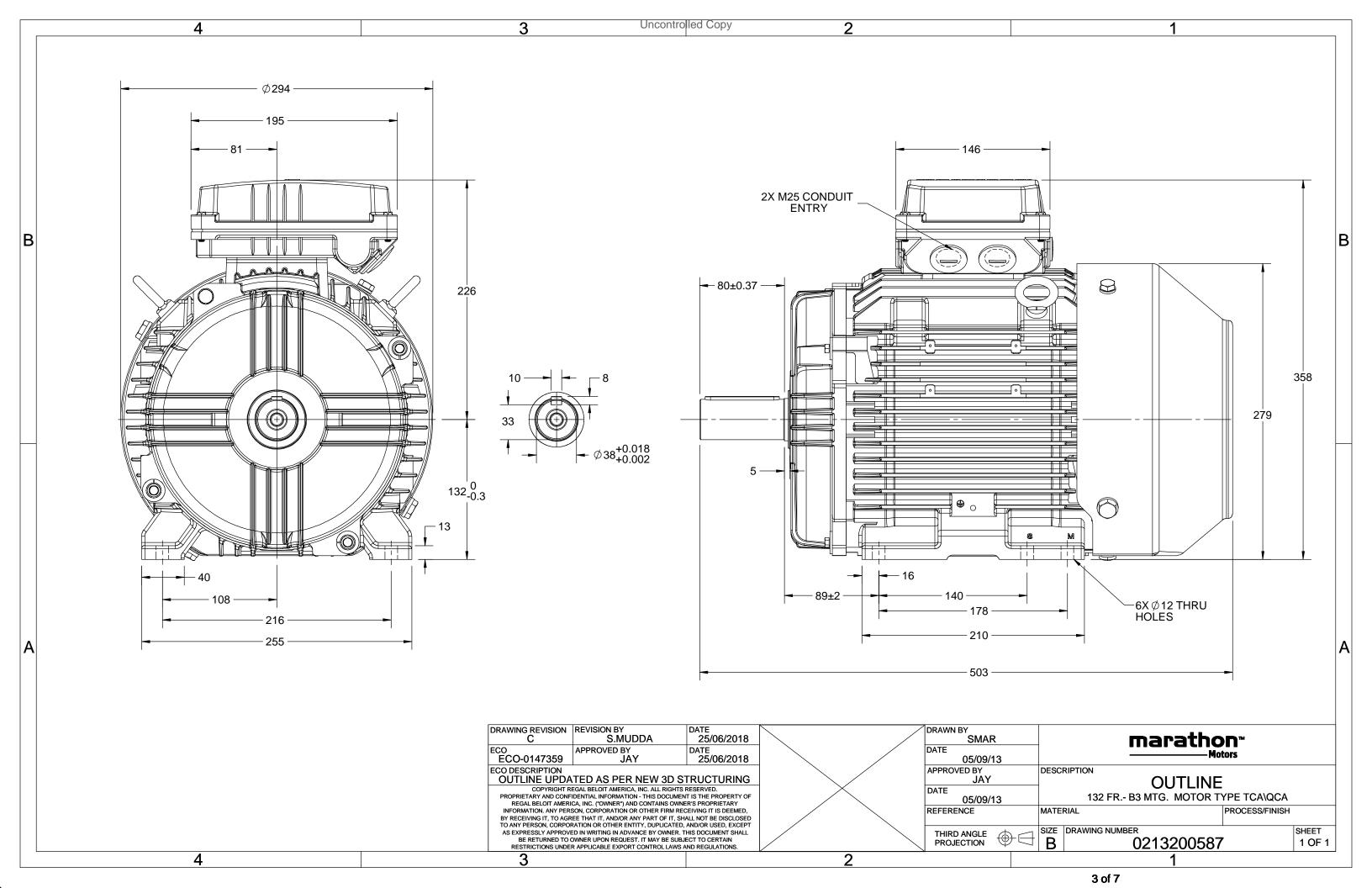
Nameplate Specifications

7.50 Hp	Output KW	5.5 kW		
50 Hz	Voltage	380 V		
11.6 A	Speed	1470 rpm		
1	Phase	3		
91.9 %	Power Factor	0.79		
S1	Insulation Class	F		
132S	Enclosure	Totally Enclosed Fan Cooled		
No Protection	Ambient Temperature	40 °C		
6308	Opp Drive End Bearing Size	6208		
No	CSA	No		
YES	IP Code	55		
1	Efficiency Class	IE4		
	50 Hz 11.6 A 1 91.9 % S1 132S No Protection 6308 No	To Hz Voltage 11.6 A Speed Phase 91.9 % Power Factor Insulation Class 132S Enclosure No Protection Ambient Temperature 6308 Opp Drive End Bearing Size No CSA YES IP Code		

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
503 mm	Frame Length	240 mm
38 mm	Shaft Extension	80 mm
Тор		
8442000085	Outline Drawing	0213200587
	4 B3 2z-C3 Cast Iron 503 mm 38 mm	A Rotation B3 Motor Orientation 2z-C3 Opp Drive End Bearing Cast Iron Shaft Type 503 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. QCA5P52AF111GAA001

U	Δ/Υ	f	Р	Р	I	n	T	IE	9	% EFF a	t load	l	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	5.5	7.5	11.5	1470	36.36	IE4	-	91.9	91.9	91.1	0.79	0.72	0.59	6.9	2.5	3.1

Motor type	QCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	132S		Motor weight - approx.	87	kg
Duty	S1		Gross weight - approx.	90	kg
Voltage variation *	± 10%		Motor inertia	0.0476	kgm²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	N		Noise level (1meter distance from moto	or) 61	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance)	80 [Class B]	K	LR withstand time (hot/cold)	15/30	S
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	PTC 150°C	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6308-2Z / 6208-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	R x 3C x 16mm ² /2 x M25 x 1.5	
Type of grease	NA		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 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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^{*} Voltage, Frequency and combine variation are as per IEC60034-1

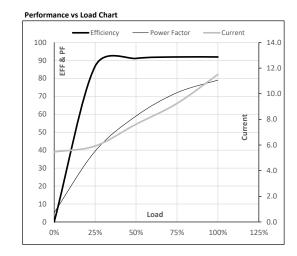




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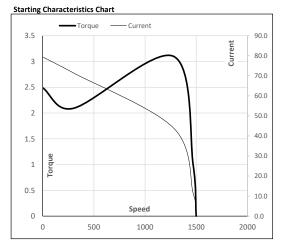
								IE	Amb	Duty	Elevation	Inertia	Weight
(V) (Conn [Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 380	Δ 50	5.5	7.5	11.5	1470	3.71	36.36	IE4	40	S1	1000	0.0476	87

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 5.5 5.9 7.6 9.2 11.5 Torque Nm 0.0 8.9 18.0 27.1 36.4 Speed r/min 1500 1493 1486 1478 1470 Efficiency % 0.0 86.7 91.1 91.9 91.9 72.0 Power Factor 5.2 39.4 59.0 79.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	300	1279	1470	1500
Current	Α	79.4	71.5	44.0	11.5	5.5
Torque	pu	2.5	2.1	3.1	1	0



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

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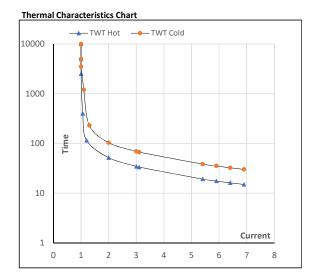




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380	Υ	50	5.5	7.5	11.5	1470	3.71	36.36	IE4	40	S1	1000	0.0476	87

Motor Speed	d Torq	ue Data						
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	52	35	30	25	18	15
TWT Cold	S	10000	104	69	60	45	35	30
Current	pu	1	2	3	4	5	5.5	6.9



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

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