PRODUCT INFORMATION PACKET



Model No: QCA5P52A1121GAA001 Catalog No: QCA5P52A1121GAA001

TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 132S Frame, TEFC



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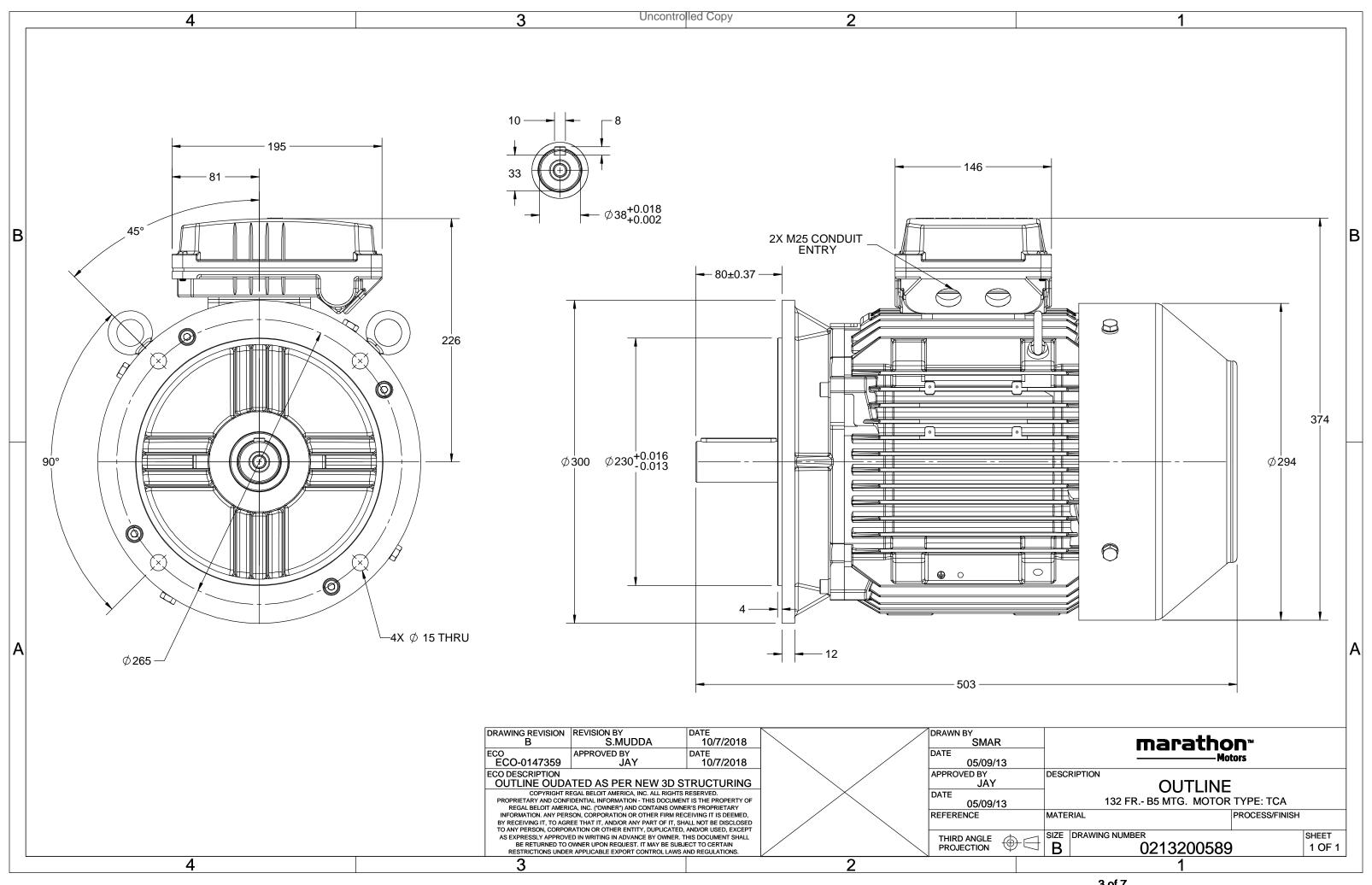
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	400 V
Current	11.0 A	Speed	1470 rpm
Service Factor	1	Phase	3
Efficiency	91.9 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	1328	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

	tarting Method	Direct On Line
Ro	otation	Bi-Directional
Мс	lotor Orientation	Horizontal
Ор	pp Drive End Bearing	2z-C3
n Sh	haft Type	Keyed
Fra	rame Length	240 mm
Sh	haft Extension	80 mm
0589 Co	onnection Drawing	8442000085
	M O S F S	Motor Orientation Opp Drive End Bearing Shaft Type Frame Length Shaft Extension

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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. QCA5P52A1121GAA001

U	Δ/Υ	f	Р	Р	1	n	T	IE		% EFF a	at load	d	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	5.5	7.5	11.0	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	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	132S	
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 B5	
Cooling method	IC 411	
Motor weight - approx.	90	kg
Gross weight - approx.	93	kg
Motor inertia	0.0476	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from moto	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 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

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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^{*} Voltage, Frequency and combined variation are as per IEC60034-1

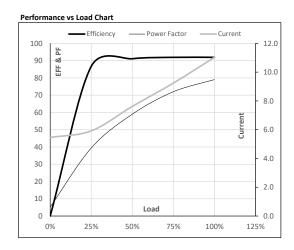




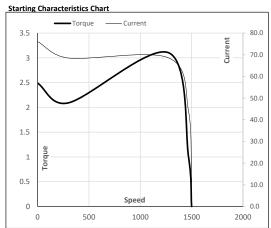
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Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	5.5	7.5	11.0	1470	3.71	36.36	IE4	40	S1	1000	0.0476	90

Motor Load D	Motor Load Data												
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL						
Current	Α	5.5	5.9	7.6	9.2	11.0							
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							
Power Factor	%	5.2	39.4	59.0	72.0	79.0							



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 300 0 1279 1470 1500 Speed r/min Current Α 76.1 68.5 44.0 11.0 5.5 Torque pu



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

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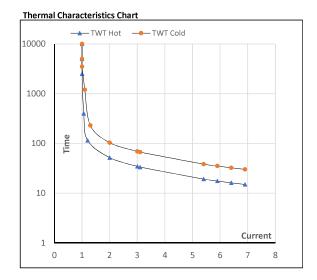




Model No. QCA5P52A1121GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Υ	50	5.5	7.5	11.0	1470	3.71	36.36	IE4	40	S1	1000	0.0476	90

Motor Spee	Motor Speed Torque 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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