PRODUCT INFORMATION PACKET

Model No: QCA5P52A1131GAA001 Catalog No: QCA5P52A1131GAA001 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 132S Frame, TEFC



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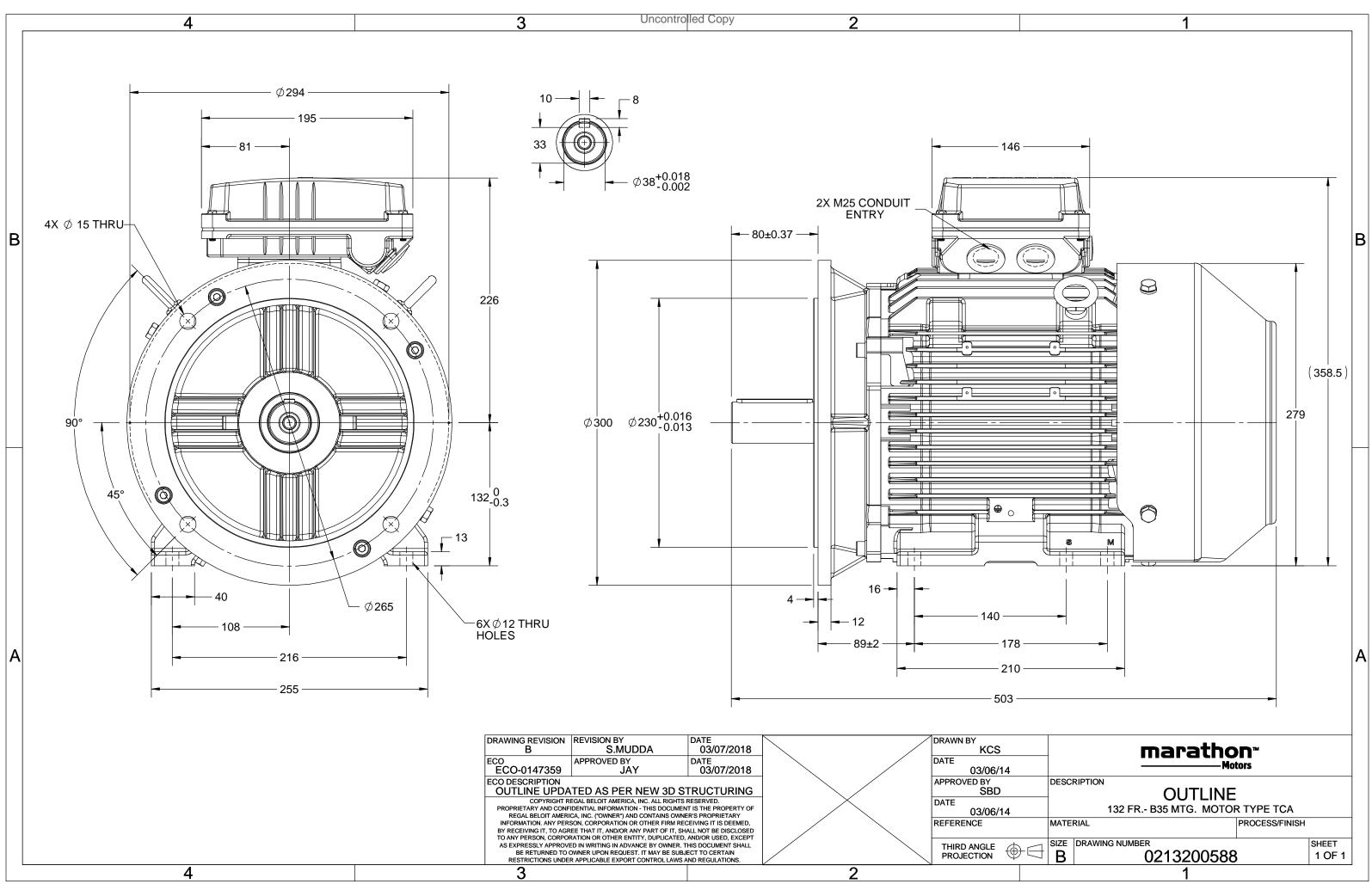
Nameplate Specifications

Output HP	7.50 Нр	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	132S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	132S No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6308	Ambient Temperature Opp Drive End Bearing Size	40 °C 6208

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
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	Тор		
Outline Drawing	0213200588	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE	9	6 EFF at	t load	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(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	10.9	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				Deg	ree of r	arotecti	on				IP 55		
Enclos					TEFC				Degree of protection Mounting type					IM B35				
	Material	1			Cast Irc				Cooling method					IC 411				
Frame					1325			Motor weight - approx.					90		kg			
Duty					S1						ht - app					93		kg
	e variatio	on *			± 10%					tor iner						0.0476		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	d inertia	а				Custo	omer to Prov	ride	-
Combi	ned varia	ation *			10%				Vibr	ation le	evel					1.6		mm/s
Design					Ν				Noise level (1meter distance from motor))	61		dB(A)		
Service	factor				1.0				No. of starts hot/cold/Equally spread					2/3/4				
Insulat	ion class				F				Starting method					DOL				
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	e of cou	upling					Direct		
Tempe	rature ri	se (by r	esistanc	e)	80 [Class	B]		К	LR v	vithstar	nd time	(hot/co	ld)			15/30		s

Service factor	1.0		No. of starts hot/cold/Equally spread	d 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]	к	LR withstand time (hot/cold)	15/30
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	ТОР
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 16mm²/2 x M25 x 1.5
Type of grease	NA		Auxiliary terminal box	NA

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

 T_A/T_N - Locked Rotor 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

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

Technical dat	ta are subject to chan	ge. There may be slight v	variations between calculated	values in this datashe	et and the motor name	eplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2	004 -	IEC 60034-30-1

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Model No. QCA5P52A1131GAA001

Enclosure	U	Δ / Y	f	Р	Р	I	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	10.9	1470	3.71	36.36	IE4	40	S1	1000	0.0476	90

Motor Load Data

Motor Speed Torque Data

r/min

А

ри

Load Point

Speed

Current

Torque

LR

0

75.4

2.5

P-Up

300

67.9

2.1

BD

1279

44.0

3.1

Rated

1470

10.9

1

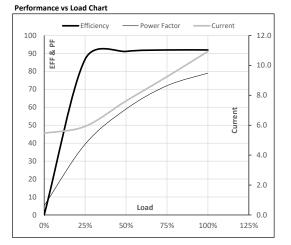
NL

1500

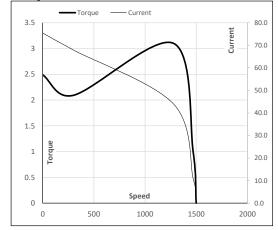
5.5

0

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	5.5	5.9	7.6	9.2	10.9	
Nm	0.0	8.9	18.0	27.1	36.4	
r/min	1500	1493	1486	1478	1470	
%	0.0	86.7	91.1	91.9	91.9	
%	5.2	39.4	59.0	72.0	79.0	
	Nm r/min %	A 5.5 Nm 0.0 r/min 1500 % 0.0	A 5.5 5.9 Nm 0.0 8.9 r/min 1500 1493 % 0.0 86.7	A 5.5 5.9 7.6 Nm 0.0 8.9 18.0 r/min 1500 1493 1486 % 0.0 86.7 91.1	A 5.5 5.9 7.6 9.2 Nm 0.0 8.9 18.0 27.1 r/min 1500 1493 1486 1478 % 0.0 86.7 91.1 91.9	A 5.5 5.9 7.6 9.2 10.9 Nm 0.0 8.9 18.0 27.1 36.4 r/min 1500 1493 1486 1478 1470 % 0.0 86.7 91.1 91.9 91.9



Starting Characteristics Chart



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

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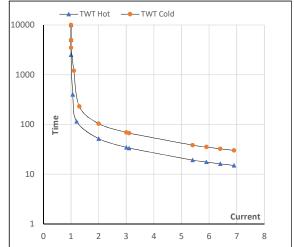
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	5.5	7.5	10.9	1470	3.71	36.36	IE4	40	S1	1000	0.0476	90

Motor Speed Torque Data

Load		FL	I_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

Thermal Characteristics Chart



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

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