PRODUCT INFORMATION PACKET

Model No: SCA5P52A4131GAA001 Catalog No: SCA5P52A4131GAA001 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 132S Frame, TEFC



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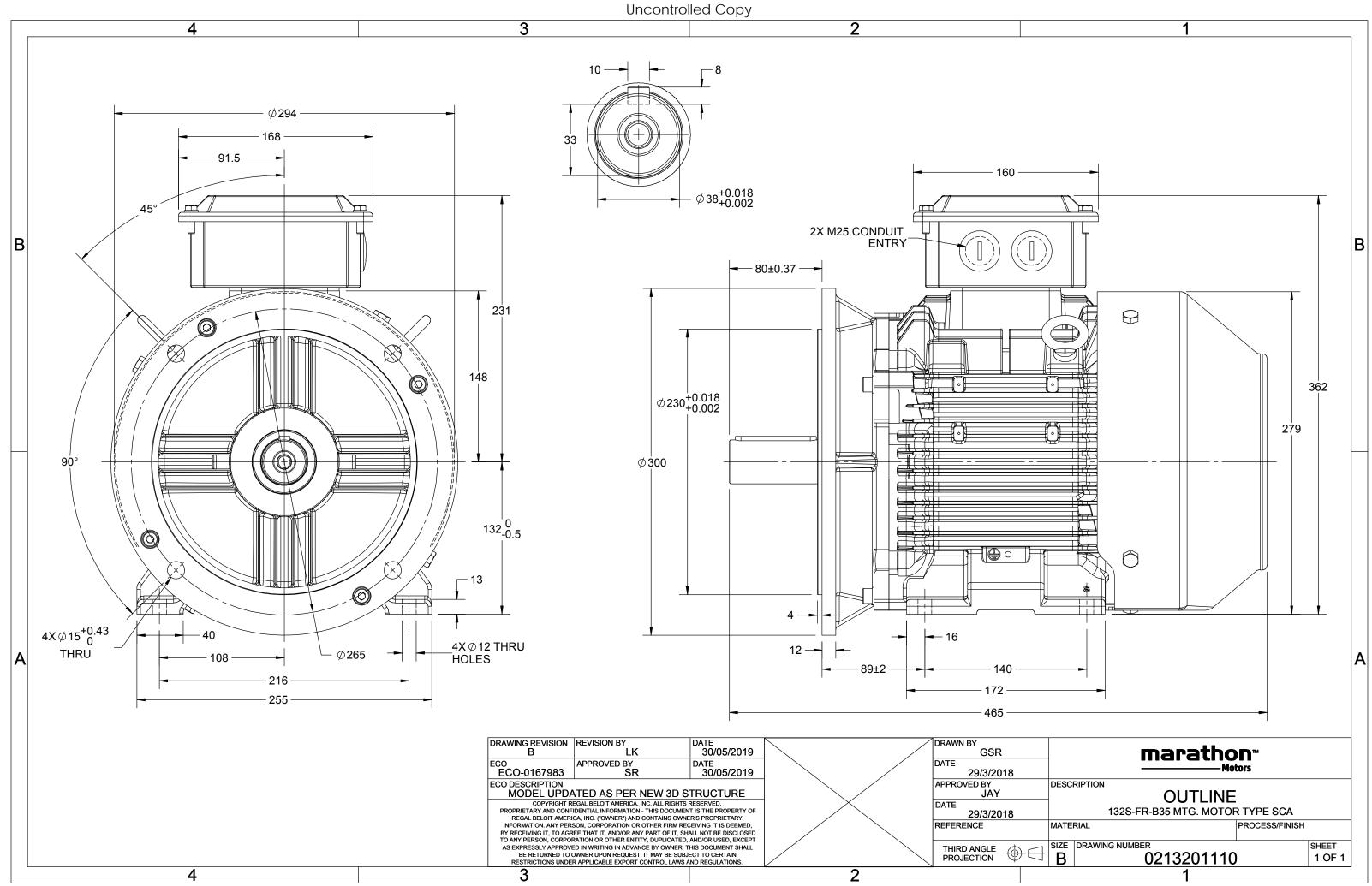
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	380/660 V
Current	11.1 A	Speed	1444 rpm
Service Factor	1	Phase	3
Efficiency	87.7 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	132S	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		Efficiency Class	IE2

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	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213201110	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I.	n	Т	IE	9	% EFF a	t loac	ł	PF	at _ lo	ad	I_A/I_N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	5.5	7.5	11.1	1444	37	IE2	-	87.7	87.7	89	0.86	0.82	0.73	7.1	2.7	3.0

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	1325		Motor weight - approx.	79	kg
Duty	S1		Gross weight - approx.	82	kg
Voltage variation *	± 10%		Motor inertia	0.0228	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	Ν		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]	К	LR withstand time (hot/cold)	7/15	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	-	
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	LR x 3C x 16mm²/2 x M25 x 1.5	
Type of grease	NA		Auxiliary terminal box	Available on Request	

 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

* 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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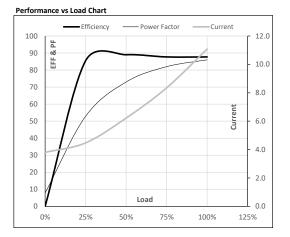
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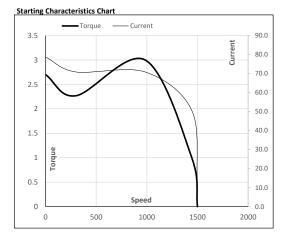
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	5.5	7.5	11.1	1444	3.77	37.00	IE2	40	S1	1000	0.0228	79

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.8	4.5	6.2	8.3	11.1	
Torque	Nm	0.0	9.0	18.1	27.4	37.0	
Speed	r/min	1500	1487	1475	1460	1444	
Efficiency	%	0.0	85.5	89.0	87.7	87.7	
Power Factor	%	7.8	52.9	73.0	82.0	86.0	



Motor Speed T	Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	300	983	1444	1500						
Current	А	78.7	70.8	50.6	11.1	3.8						
Torque	pu	2.7	2.3	3.0	1	0						



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

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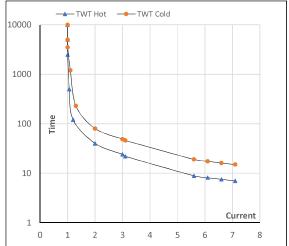
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				r r	Р		n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
EFC	380/60	50 Δ	50	5.5	7.5	11.1	1444	3.77	37.00	IE2	40	S1	1000	0.0228	79
EFC	380/60	50 Δ	50	5.5	7.5	11.1	1444	3.77	37.00	IE2	40	S1		1000	1000 0.0228

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	ا5	LR
TWT Hot	s	10000	39	26	22	15	9	7
TWT Cold	s	10000	75	49	35	26	18	15
Current	pu	1	2	3	4	5	5.5	7.1

Thermal Characteristics Chart



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

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