PRODUCT INFORMATION PACKET

Model No: SCA0043A1131GAA001 Catalog No: SCA0043A1131GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132M Frame, TEFC



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Motors

Product Information Packet: Model No: SCA0043A1131GAA001, Catalog No:SCA0043A1131GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132M Frame, TEFC

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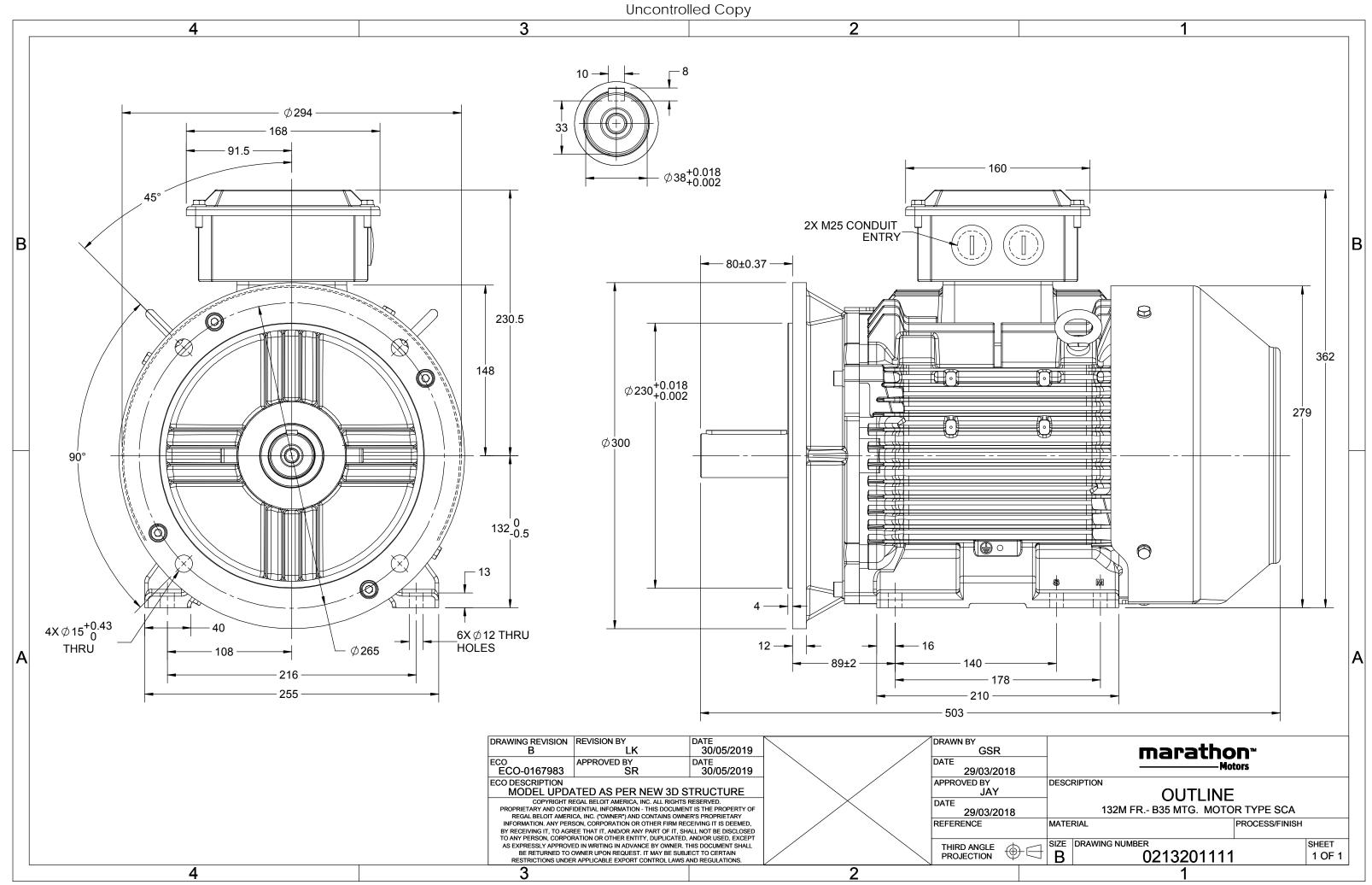
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	400 V
Current	8.6 A	Speed	953 rpm
Service Factor	1	Phase	3
Efficiency	84.6 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	132M 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	6	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	0213201111	Connection Drawing	8442000085

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Model No. SCA0043A1131GAA001

U	Δ / Y	f	Р	Р	I	n	т	IE		% EFF a	t load	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]
400	Δ	50	4	5.5	8.6	953	41.18	IE2	-	84.6	84.6	85.1	0.79	0.73	0.61	6	2.6	2.7
																10.55		
Motor	<i>'</i> ''				SCA						protecti	on				IP 55		
Enclosu					TEFC				Mounting type IM B35									
	Material				Cast Iro				Cooling method IC 411									
Frame	size				132N	1			Motor weight - approx. 82							kg		
Duty					S1				Gro	oss weig	ht - app	rox.				85		kg
Voltage	e variatic	on *			± 10%	,			Motor inertia					0.0256			kgm ²	
Freque	ncy varia	ation *			± 5%				Load inertia				Customer to Provide					
Combir	ned varia	ation *			10%				Vibration level						1.6		mm/s	
Design					Ν				Noi	ise leve	(1mete	er distar	nce fron	n motor)	59		dB(A)
Service	factor				1.0				No.	of star	ts hot/co	old/Equ	ally spr	ead	2/3/4			
Insulati	ion class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by r	esistanc	e)	80 [Class	s B]		К	LR	withsta	nd time	(hot/co	ld)			30/15		s
Altitud	e above	sea lev	el		1000			meter	Dire	ection c	of rotatio	n			В	i-directiona	al	
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form	n DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temper	ature c	lass		NA					Acc	cessory -	1				PTC 150°C		
Rotor t	vpe			Al	uminum [Die cast				Acc	cessory -	2				-		
Bearing				A	Anti-frictio	n ball					, cessory -					-		
) DE bearir	าย		63	08-2Z / 6	5208-2Z			Ter		ox posit					TOP		
-	tion met	•			Greased fo						cable siz		uit size	1R	x 3C x 3	16mm²/2 x	M25 x 1.5	
	fgrease				NA						erminal	.,	are Size			able on Rec		
., pc 0	Brease								, .u/									

 I_{A}/I_{N} - Locked Rotor Current / Rated Current T_{A}/T_{N} - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30

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Model No. SCA0043A1131GAA001

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	Δ	50	4	5.5	8.6	953	4.20	41.18	IE2	40	S1	1000	0.0256	82

Motor Load Data

Motor Speed Torque Data

r/min

А

pu

Load Point

Speed

Current

Torque

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.5	4.8	5.7	7.1	8.6	
Torque	Nm	0.0	9.9	20.1	30.4	41.2	
Speed	r/min	1000	989	979	967	953	
Efficiency	%	0.0	78.9	85.1	84.6	84.6	
Power Factor	%	8.1	39.5	61.0	73.0	79.0	
TowerTuccor	70	0.1	33.5	01.0	75.0	75.0	

P-Up

91

46.7

2.2

LR

0

51.8

2.6

BD

621

36.8

2.7

Rated

953

8.6

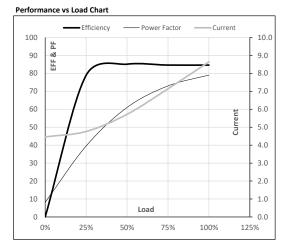
1

NL

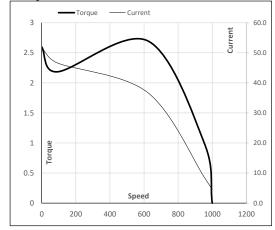
1000

4.5

0



Starting Characteristics Chart



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

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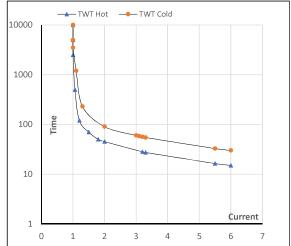
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Enclosure	U	Δ / Y	f	Ρ	Р	Ι	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	4	5.5	8.6	953	4.20	41.18	IE2	40	S1	1000	0.0256	82

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	45	36	25	20	16	15
TWT Cold	s	10000	59	57	50	45	33	30
Current	pu	1	2	3	4	5	5.5	6

Thermal Characteristics Chart



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

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