## **PRODUCT INFORMATION PACKET**

Model No: SCA0043A1181GAA001 Catalog No: SCA0043A1181GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132M Frame, TEFC



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Product Information Packet: Model No: SCA0043A1181GAA001, Catalog No:SCA0043A1181GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132M Frame, TEFC

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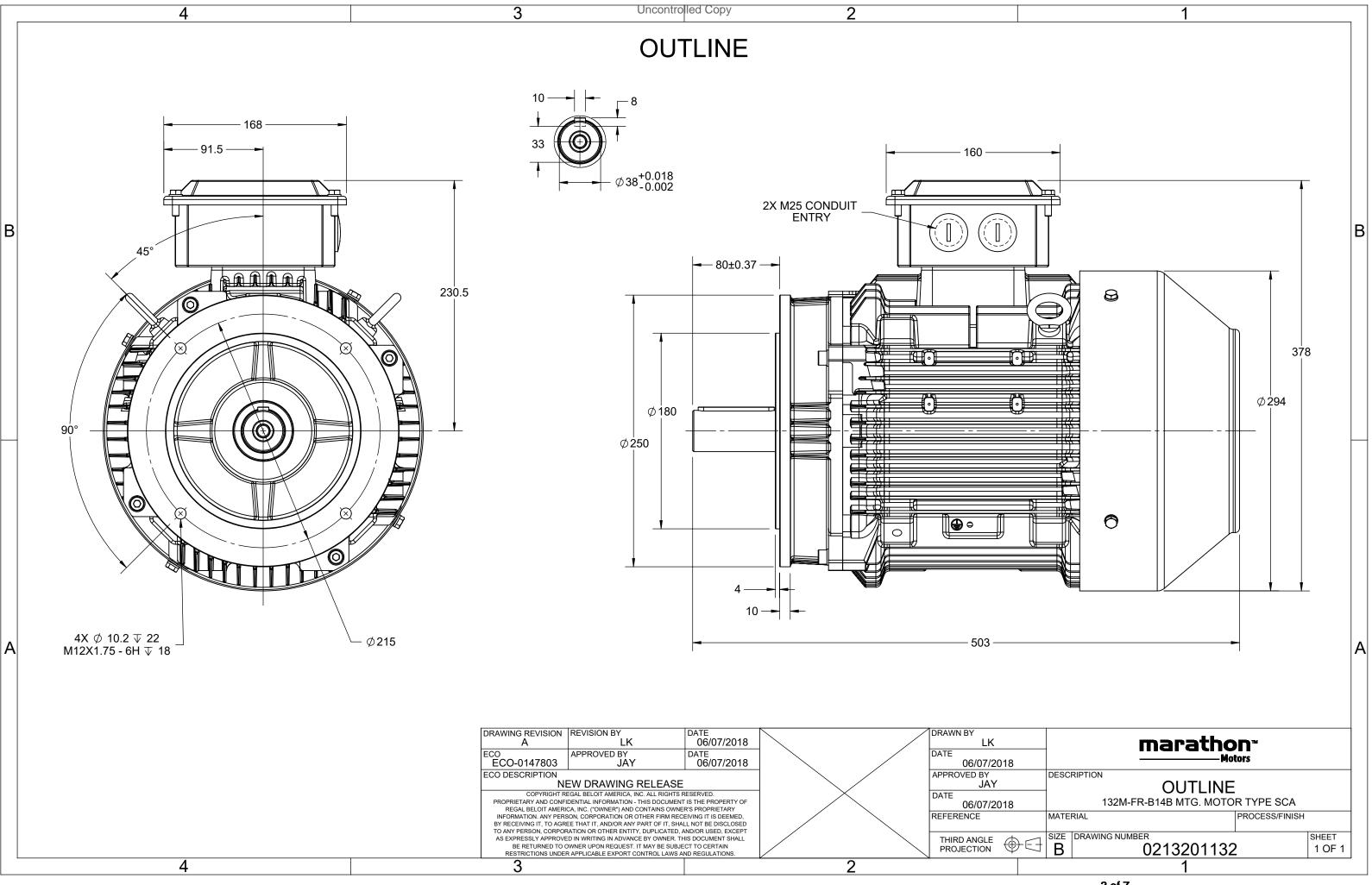
### Nameplate Specifications

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	42014	Englagura	Totally England For Cooled
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	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	B14B	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		
Connection Drawing	8442000085	Outline Drawing	0213201132

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# **TerraMAX**<sup>®</sup>

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U	$\Delta / Y$	f	Р	Р	I	n	т	IE		% EFF a	t load	ł	PF	at_lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$	
(∨)	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 B14B			
	Material				Cast Ire					oling me						IC 411 81		kg	
Frame	size				132N	1		Motor weight - approx. Gross weight - approx.						Motor weight - approx.					
Duty					S1			Gross weight - approx. Motor inertia						Gross weight - approx.					
Voltage	e variatic	on *			± 10%										0.0256			kgm <sup>2</sup>	
Freque	ncy varia	ation *			± 5%				Load inertia						Cust	omer to Pro	ovide		
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 [ Clas	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	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-frictic	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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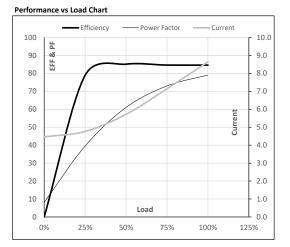


Model No. SCA0043A1181GAA001

Enclosure	U	$\Delta / Y$	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 <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	4	5.5	8.6	953	4.20	41.18	IE2	40	S1	1000	0.0256	81

#### Motor Load Data

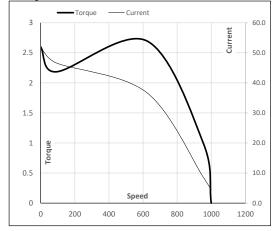
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.5	4.8	5.7	7.1	8.6	
Torque	Nm	0.0	9.9	20.1	30.4	41.2	
Speed	r/min	1000	989	979	967	953	
Efficiency	%	0.0	78.9	85.1	84.6	84.6	
Power Factor	%	8.1	39.5	61.0	73.0	79.0	
TowerTuccor	70	0.1	33.5	01.0	75.0	75.0	



#### Motor Speed Torque Data

motor opec	a lorque ba						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	621	953	1000	
Current	А	51.8	46.7	36.8	8.6	4.5	
Torque	pu	2.6	2.2	2.7	1	0	

Starting Characteristics Chart



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

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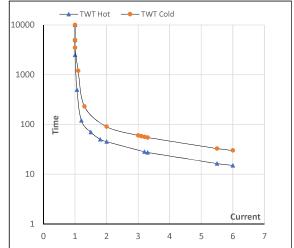
### Model No. SCA0043A1181GAA001

Enclosure	U	$\Delta / Y$	f	Р	Ρ	Ι	n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Y	50	4	5.5	8.6	953	4.20	41.18	IE2	40	S1	1000	0.0256	81

### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	l <sub>5</sub>	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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