PRODUCT INFORMATION PACKET

Model No: SCA5P52A3131GAAD01 Catalog No: SCA5P52A3131GAAD01 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 132S Frame, TEFC



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Product Information Packet: Model No: SCA5P52A3131GAAD01, Catalog No:SCA5P52A3131GAAD01 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 132S Frame, TEFC

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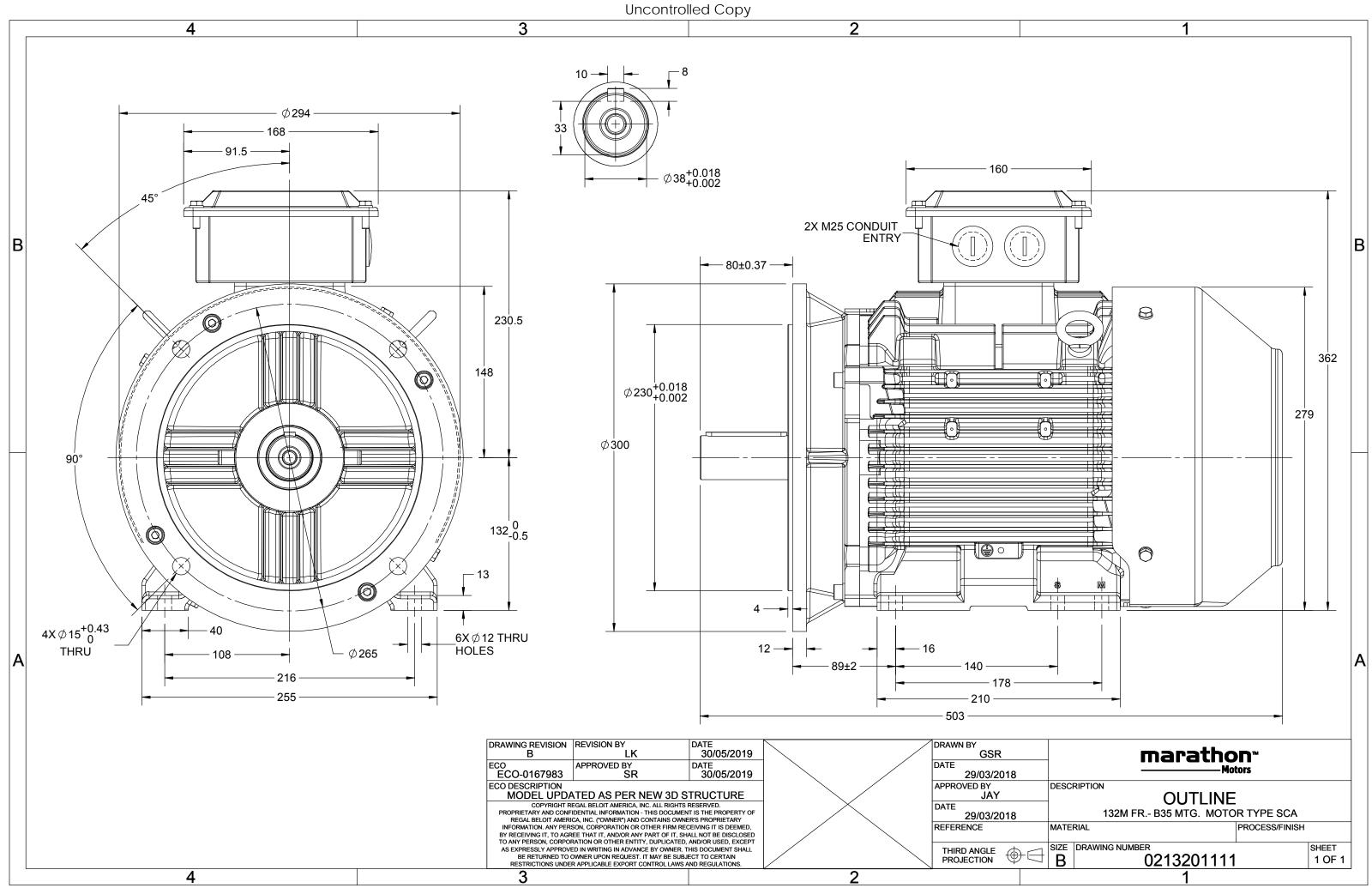
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	415 V
Current	10.6 A	Speed	1456 rpm
Service Factor	1	Phase	3
Efficiency	87.7 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6308	Ambient Temperature Opp Drive End Bearing Size	50 °C 6208
Drive End Bearing Size	6308	Opp Drive End Bearing Size	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	0213201111	Connection Drawing	8442000085	

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U	Δ/Υ	f	Р	Р	I	n	т	IE		% EFF at	:load	ł	PF	at_lc	bad	I _A /I _N	T_A/T_N	T _K /T _N
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	 3/4FL	1/2FL	FL	 3/4FL	1/2FL	[pu]	[pu]	[pu]
415	Δ	50	5.5	7.5	10.6	1456	36.84	IE2	-	87.7	87.7	87.5	0.83	0.76	0.62	7.6	3.3	3.5
					SCA											IP 55		
Motor					TEFC					gree of p		on				IP 55 IM B35		
Enclos										unting t								
	Materia	I			Cast Ire					oling me						IC 411		
Frame	size				1325					tor weig						83		kg
Duty					S1					ss weig		rox.				86		kg
	e variatio				± 10%					tor iner						0.0228		kgm ²
Freque	ency vari	ation *			± 5%				Load inertia						Cust	omer to Pro	vide	
Combi	ned varia	ation *			10%				Vib	ration le	evel					1.6		mm/s
Design					N				Noi	se level	(1mete	er distar	nce fron	n motor)	67		dB(A)
Service	e factor				1.0				No.	of start	s hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class	5			F				Sta	rting me	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	-50		°C	Тур	e of cou	upling					Direct		
Tempe	rature ri	ise (by i	resistanc	e)	70 [Clas	s B]		К	LR v	withstar	nd time	(hot/co	ld)			8/13		S
Altitud	e above	sea lev	el		1000			meter	Dire	ection o	f rotatio	on			В	i-directiona	ıl 👘	
Hazard	lous area	a classif	ication		NA				Sta	ndard ro	otation				Clo	ckwise form	DE	
	Zone cl	assifica	tion		NA				Pair	nt shade	5					RAL 5014		
	Gas gro	up			NA				Acc	essories	5							
	Temper	rature o	lass		NA					Acc	essory -	1				-		
Rotor t	type			Alu	uminum [Die cast				Acc	essory -	2				-		
Bearin	g type			А	nti-frictic	n ball				Acc	essory -	3				-		
	DE beari	ng		63	08-2Z / 6	5208-2Z			Ter	minal bo	, ox posit	ion				TOP		
Lubrica	ation me	thod		G	ireased fo	or life				ximum (•		luit size	1R	x 3C x 3	16mm²/2 x	M25 x 1.5	
Type o	f grease				NA					diliary te						NA		
i ype u	grease				117				Au	inary le	annindi	001						

 $I_{\text{A}}/I_{\text{N}}$ - 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

 $\ensuremath{^*}$ 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 India Aus/Nz Brazil Europe China

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	-	IS 12615 : 2018	-	-	-

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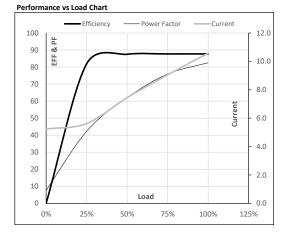


Model No. SCA5P52A3131GAAD01

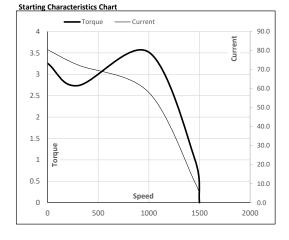
Enclosure	U	Δ / Y	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	5.5	7.5	10.6	1456	3.76	36.84	IE2	50	S1	1000	0.0228	83.0

Motor	Load	Data

Niotor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	5.2	5.6	7.4	9.1	10.6	
Torque	Nm	0.0	9.0	18.1	27.3	36.8	
Speed	r/min	1500	1489	1479	1468	1456	
Efficiency	%	0.0	81.9	87.5	87.7	87.7	
Power Factor	%	7.6	42.3	62.1	75.9	82.5	



Torque Data						
	LR	P-Up	BD	Rated	NL	
r/min	0	300	997	1456	1500	
А	80.5	72.4	58.1	10.6	5.2	
pu	3.3	2.7	3.5	1	0	
	r/min A	LR r/min 0 A 80.5	LR P-Up r/min 0 300 A 80.5 72.4	LR P-Up BD r/min 0 300 997 A 80.5 72.4 58.1	LR P-Up BD Rated r/min 0 300 997 1456 A 80.5 72.4 58.1 10.6	LR P-Up BD Rated NL r/min 0 300 997 1456 1500 A 80.5 72.4 58.1 10.6 5.2



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

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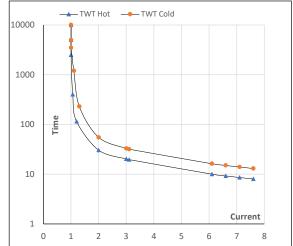
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	5.5	7.5	10.6	1456	3.76	36.84	IE2	50	S1	1000	0.0228	83

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	30	20	16	12	9	8
TWT Cold	s	10000	55	33	27	20	15	13
Current	pu	1	2	3	4	5	6	7.6

Thermal Characteristics Chart



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

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EC Declaration of Conformity

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401 and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : SCA5P52A3131GAAD01

(Model No. may contain prefix and/or suffix characters)

Catalog No : SCA5P52A3131GAAD01

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010) EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A Logsdon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

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Authorized Representative in the Community:

Julian Clark Marketing Engineer