## **PRODUCT INFORMATION PACKET**

Model No: SCAP752A3131GAAD01 Catalog No: SCAP752A3131GAAD01 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 80M Frame, TEFC



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Product Information Packet: Model No: SCAP752A3131GAAD01, Catalog No:SCAP752A3131GAAD01 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 80M Frame, TEFC

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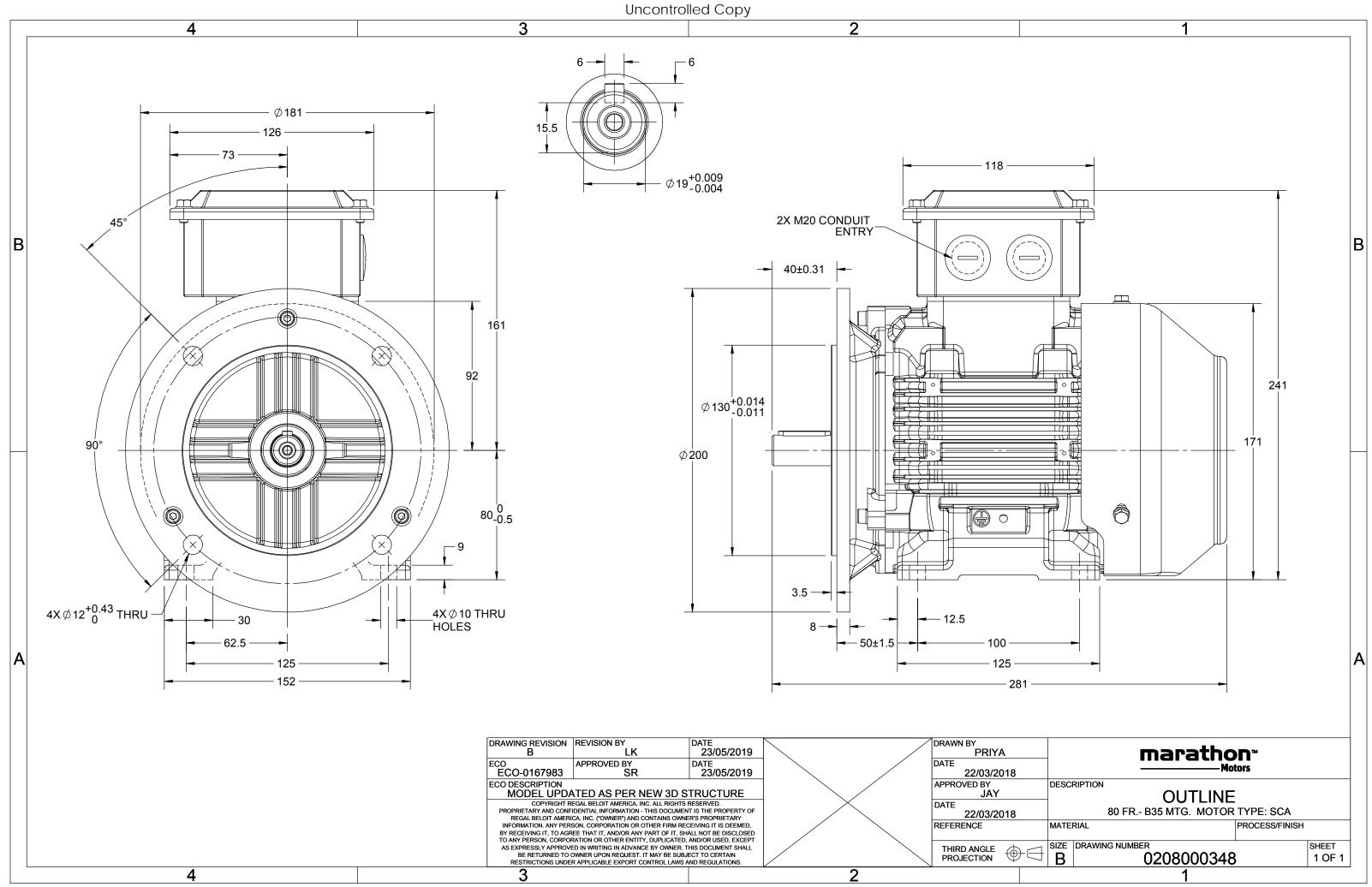
### Nameplate Specifications

Output HP	1 Нр	Output KW	0.75 kW
Frequency	50 Hz	Voltage	415 V
Current	1.7 A	Speed	1407 rpm
Service Factor	1	Phase	3
Efficiency	79.6 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	80M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 50 °C
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6204	Ambient Temperature Opp Drive End Bearing Size	50 °C 6204

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	4	Rotation	<b>Bi-Directional</b>	
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	281 mm	Frame Length	140 mm	
Shaft Diameter	19 mm	Shaft Extension	40 mm	
Assembly/Box Mounting	ТОР			
Outline Drawing	0208000348	Connection Drawing	8442000085	

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#### SCAP752A3131GAAD01 Model No.

U	$\Delta / Y$	f	Р	Р	I	n	т	IE		% EFF at	tload	ł	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
415	Y	50	0.75	1.0	1.7	1407	4.75	IE2	-	79.6	79.6	77.2	0.76	0.68	0.54	6.0	3.8	3.0
					664								•					
Motor	/ .				SCA						protecti	on				IP 55		
Enclos					TEFC	-				unting t						IM B35		
	Materia	-			Cast Ire					oling me						IC 411		
Frame	size				80M						ght - app					17		kg
Duty					S1						ht - app	rox.				18		kg
	e variatio				± 10%					tor iner						0.0020		kgm <sup>2</sup>
	ncy varia				± 5%				Loa	id inerti	а				Custo	omer to Provid	le	
Combi	ned varia	ation *			10%				Vib	ration le	evel					1.6		mm/s
Design					N						•			n motor)	)	72		dB(A)
Service	factor				1.0				No	of star	ts hot/co	old/Equ	ally spre	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 r	resistanc	e)	70 [ Clas	s B ]		К	LR	withstar	nd time	(hot/co	ld)			8/10		S
Altitud	e above	sea lev	el		1000	)		meter	Dir	ection o	f rotatio	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Sta	ndard ro	otation				Cloc	ckwise form DB		
	Zone cla	assifica	tion		NA				Pai	nt shade	5					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temper	rature o	lass		NA					Acc	essory -	1				-		
Rotor t	ype			Alu	ıminum [	Die cast				Acc	essory -	2				-		
Bearin	g type			А	nti-frictic	on ball				Acc	essory -	3				-		
DE / NI	DE bearii	ng		620	04-2Z / 6	5204-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod		G	reased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	10mm²/2 x M2	0 x 1.5	
Туре о	f grease				NA				Aux	kiliary te	erminal	box				NA		

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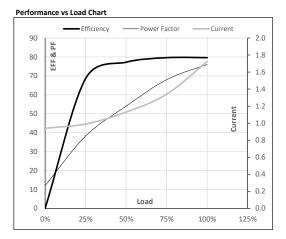


### Model No. SCAP752A3131GAAD01

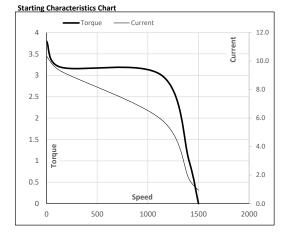
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	415	Y	50	0.75	1.0	1.7	1407	0.48	4.75	IE2	50	S1	1000	0.0020	17

Motor	Load	Data

WIOLOI LOAU Da	La						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	0.9	1.0	1.1	1.3	1.7	
Torque	Nm	0.0	1.6	3.3	4.9	4.8	
Speed	r/min	1500	1486	1474	1461	1407	
Efficiency	%	0.0	68.6	77.2	79.6	79.6	
Power Factor	%	12.0	38.2	54.0	68.0	76.0	



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	136	1136	1407	1500							
Current	А	10.3	9.3	5.9	1.7	0.9							
Torque	pu	3.8	3.2	3.0	1	0							



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

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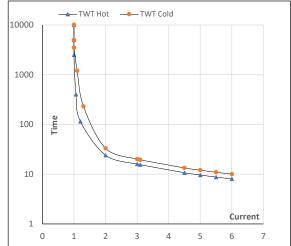
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	415	Y	50	0.75	1.0	1.7	1407	0.48	4.75	IE2	50	S1	1000	0.0020	17

#### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	LR
TWT Hot	S	10000	24	16	13	10	9	8
TWT Cold	S	10000	33	20	16	12	11	10
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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### **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 : SCAP752A3131GAAD01

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

Catalog No : SCAP752A3131GAAD01

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