PRODUCT INFORMATION PACKET

Model No: SCA1P13A3131GAAD01 Catalog No: SCA1P13A3131GAAD01 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 90L Frame, TEFC



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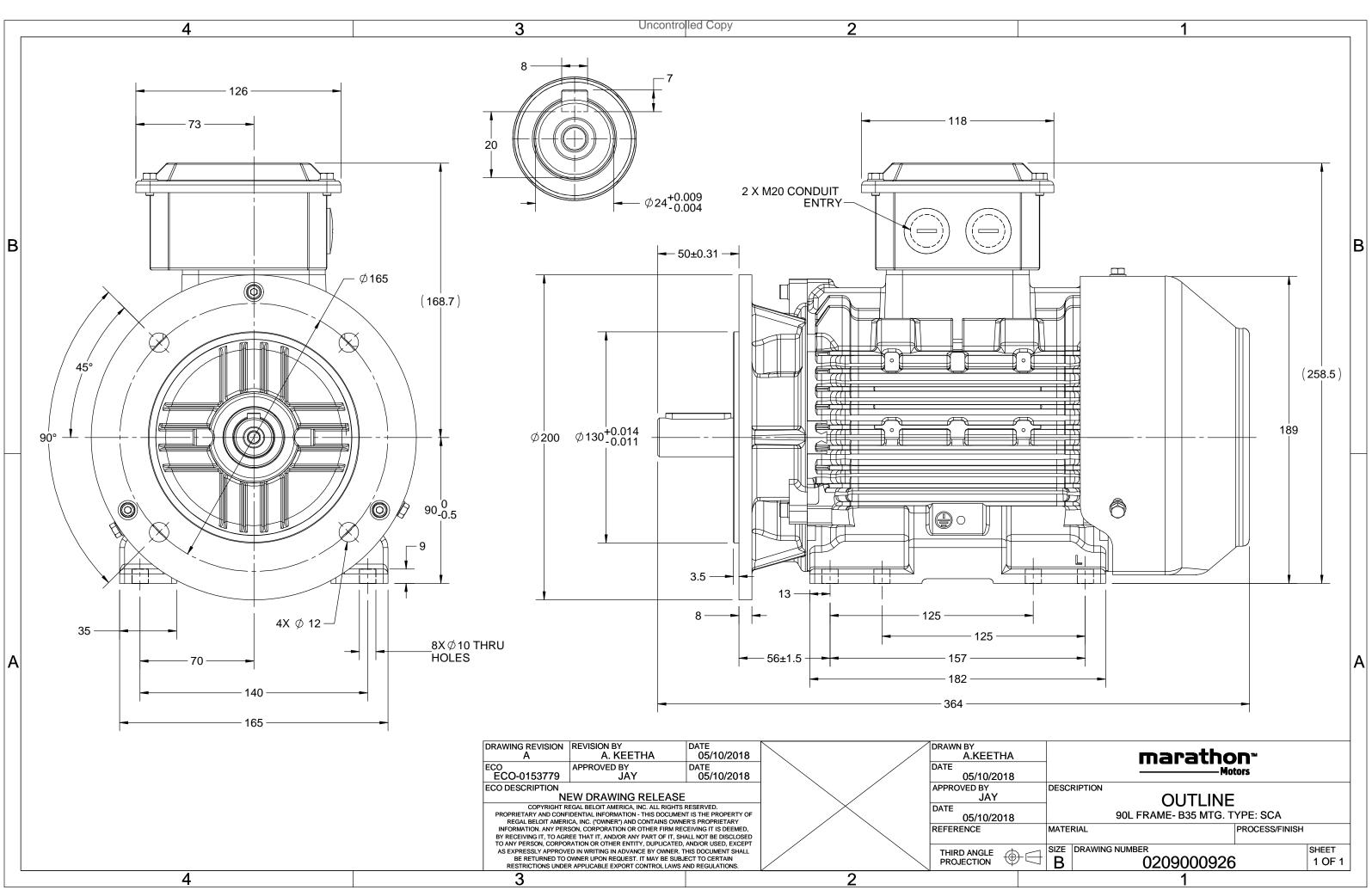
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	415 V
Current	2.9 A	Speed	925 rpm
Service Factor	1	Phase	3
Efficiency	78.1 %	Power Factor	0.69
Duty	S1	Insulation Class	F
Frame	90L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	90L 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 6205	Ambient Temperature Opp Drive End Bearing Size	50 °C 6205

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	364 mm	Frame Length	185 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	ТОР		
Outline Drawing	0209000926	Connection Drawing	8442000085

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																	/_	
U	Δ / Y	f	Р	Р	I	n	Т	IE			: load			at _ lo		I _A /I _N	T_A/T_N	T _K ∕T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL		FL	3/4FL	,	[pu]	[pu]	[pu]
415	Y	50	1.1	1.5	2.8	925	11.74	IE2	-	78.1	78.1	74.1	0.69	0.58	0.42	4.0	2.8	2.7
Matar	tune				SCA				Dec	waa af i	rataati					IP 55		
Motor					TEFC						protectio	חכ				IM B35		
Enclos		1			Cast In	•				unting t	<i>·</i> ··					IC 411		
	Material				90L	on				oling me						30		
Frame	size				90L S1				ght - app					31		kg		
Duty		*			± 109	/			Gross weight - approx.								kg	
	e variatio								Motor inertia						0.0048 Customer to Provide			kgm ²
	ncy varia				± 5%				Load inertia						1.6			
	ned varia	ation *			10%					Vibration level								mm/s
Design					N					Noise level (1meter distance from motor)								dB(A)
	factor				1.0					No. of starts hot/cold/Equally spread						2/3/4		
	ion class				F					Starting method						DOL		
	nt tempe				-20 to +			°C	11	Type of coupling						Direct		
	rature ri	• •		ce)	70 [Clas	•		K		LR withstand time (hot/cold)						20/40		
	e above				1000)		meter			f rotatio	on				i-directiona		
Hazard	ous area				NA					ndard ro					Cloc	kwise form	DE	
	Zone cla	assifica	tion		NA					nt shade	-					RAL 5014		
	Gas gro	up			NA				Acc	essorie	5							
	Temper	ature c	lass		NA					Acc	essory -	1				-		
Rotor t	ype				ıminum l					Acc	essory -	2				-		
Bearin	g type				nti-frictio					Acc	essory -	3				-		
DE / NI	DE bearin	ng)5-2Z / 6				Ter	minal b	ox posit	ion				TOP		
	ation me	thod		G	reased fo	or life			Ma	ximum	cable siz	e/cond	uit size	1R	x 3C x 1	10mm²/2 x ľ	VI20 x 1.5	
Lubrica																		

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

* Voltage, Frequency and combine variation are as per IEC60034-1

Technical da	ta are subject	to change. There may be discrepar	ncies between calculate	ed and name plate value	es.	
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	-	IS 12615 : 2018	-	-	-

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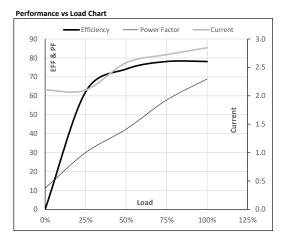


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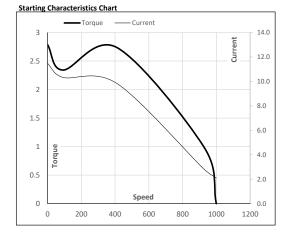
Enclosure	U	Δ / Y	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Y	50	1.1	1.5	2.8	925	1.20	11.74	IE2	50	S1	1000	0.0048	30

Motor	Load	Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	2.1	2.1	2.6	2.7	2.8	
Nm	0.0	2.7	5.5	8.5	11.7	
r/min	1000	982	965	947	925	
%	0.0	62.1	74.1	78.1	78.1	
%	11.2	30.0	42.4	57.8	68.9	
	Nm r/min %	A 2.1 Nm 0.0 r/min 1000 % 0.0	A 2.1 2.1 Nm 0.0 2.7 r/min 1000 982 % 0.0 62.1	A 2.1 2.1 2.6 Nm 0.0 2.7 5.5 r/min 1000 982 965 % 0.0 62.1 74.1	A 2.1 2.6 2.7 Nm 0.0 2.7 5.5 8.5 r/min 1000 982 965 947 % 0.0 62.1 74.1 78.1	A 2.1 2.1 2.6 2.7 2.8 Nm 0.0 2.7 5.5 8.5 11.7 r/min 1000 982 965 947 925 % 0.0 62.1 74.1 78.1 78.1



Motor Speed Torque Data													
	LR	P-Up	BD	Rated	NL								
r/min	0	91	411	925	1000								
А	11.5	10.3	9.8	2.8	2.1								
pu	2.8	2.3	2.7	1	0								
	r/min A	LR r/min 0 A 11.5	LR P-Up r/min 0 91 A 11.5 10.3	LR P-Up BD r/min 0 91 411 A 11.5 10.3 9.8	LR P-Up BD Rated r/min 0 91 411 925 A 11.5 10.3 9.8 2.8	LR P-Up BD Rated NL r/min 0 91 411 925 1000 A 11.5 10.3 9.8 2.8 2.1							



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

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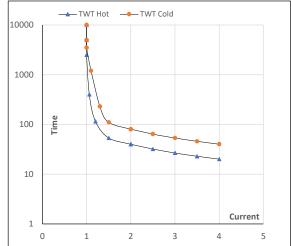
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Y	50	1.1	1.5	2.8	925	1.20	11.74	IE2	50	S1	1000	0.0048	30

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	53	40	32	27	23	20
TWT Cold	S	10000	110	80	64	53	46	40
Current	pu	1	1.5	2	2.5	3	3.5	4

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 : SCA1P13A3131GAAD01

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

Catalog No : SCA1P13A3131GAAD01

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