PRODUCT INFORMATION PACKET

Model No: SCAP753A3131GAAD01 Catalog No: SCAP753A3131GAAD01 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 90S Frame, TEFC



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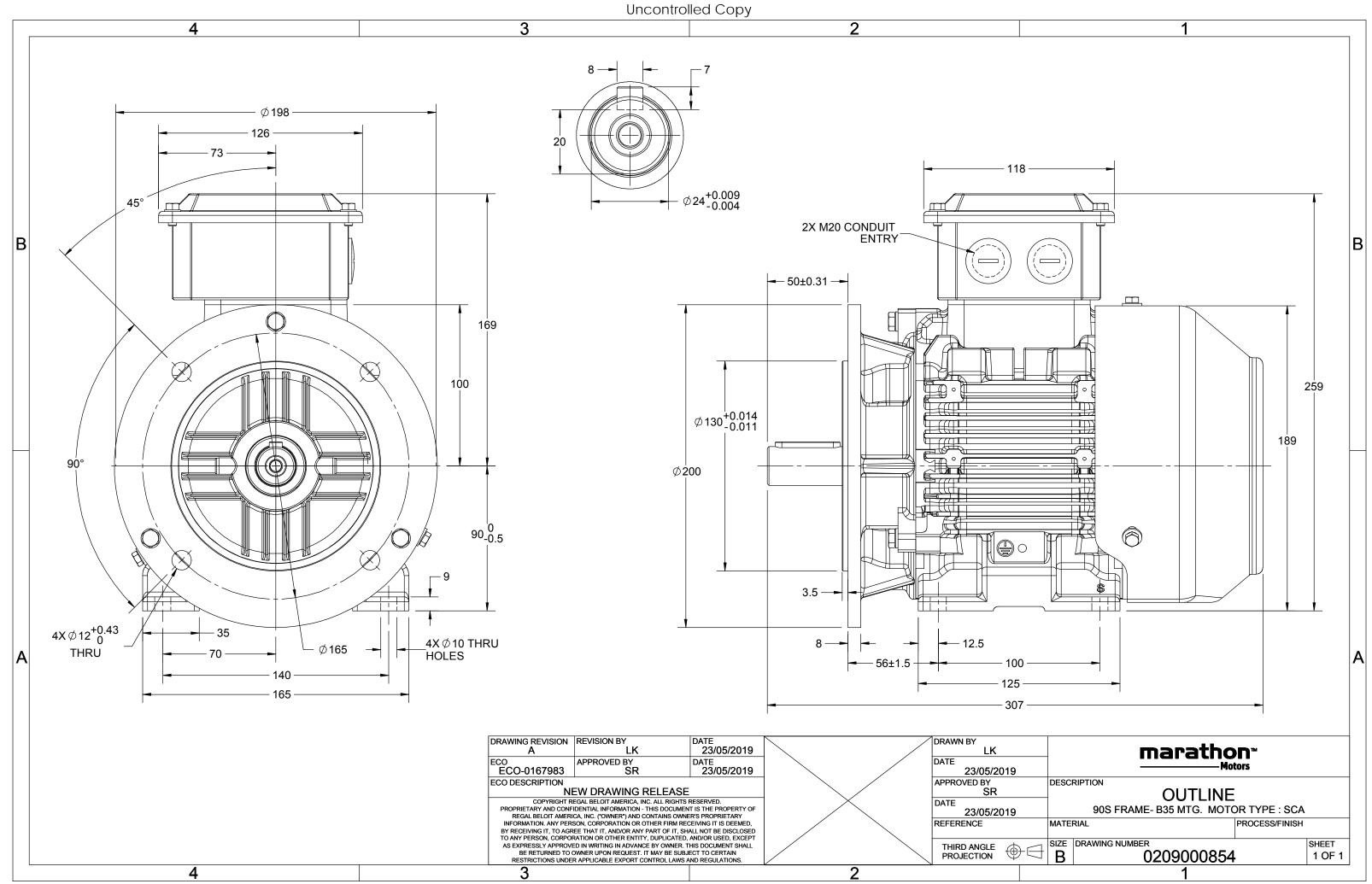
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	415 V
Current	2.0 A	Speed	929 rpm
Service Factor	1	Phase	3
Efficiency	75.9 %	Power Factor	0.68
Duty	S1	Insulation Class	F
Frame	90S	Enclosure	Totally Enclosed Fan Cooled
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
		· · ·	
Drive End Bearing Size	6205	Opp Drive End Bearing Size	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	307 mm	Frame Length	128 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085	Outline Drawing	0209000854

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Model No. SCAP753A3131GAAD01

(V) C 415 Motor typ	Y Y pe	[Hz] 50	[kW] 0.75	[hp] 1.0	[A] 2.0	[RPM]	[Nm]											
		50	0.75	1.0	2.0			Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
Motor typ	pe					929	7.83	IE2	-	75.9	75.9	69.1	0.68	0.56	0.41	3.9	2.5	2.6
Motor typ	ре																	
	he				SCA				Dor	gree of p	vrotocti	00				IP 55		
Enclosure	•				TEFC					unting t		UII				IM B35		
Frame Ma	-				Cast Ire					oling me						IC 411		
Frame siz					905					tor weig		arov				24		ka
Duty	2e				505 S1					ss weig						25		kg kg
Voltage v	variatio	n *			± 10%	6				tor iner		107.				0.0036		kgm ²
Frequenc					± 5%					d inertia					Custo	omer to Provide	2	Kgill
Combine					10%					ration le	-				Cust	1.6	•	mm/s
Design	a vana	cion			N					se level		er distar	nce fron	n motor')	55		dB(A)
Service fa	actor				1.0					of start	•				,	2/3/4		
Insulation	n class				F					rting me						DOL		
Ambient	tempe	rature			-20 to +	-50		°C		e of cou						Direct		
Temperat			esistanc	e)	70 [Clas	s B]		К		withstan		(hot/co	ld)			20/40		s
Altitude a				,	1000)		meter	Dire	ection of	f rotatio	on .	,		В	i-directional		
Hazardou	us area	classif	ication		NA				Sta	ndard ro	otation				Cloc	ckwise form DE		
Zo	one cla	ssifica	tion		NA				Pair	nt shade	2					RAL 5014		
G	ias grou	лb			NA				Acc	essories	5							
Te	emper	ature c	lass		NA					Acc	essory -	1				-		
Rotor typ	be			Alu	iminum [Die cast				Acc	essory -	2				-		
Bearing t	ype			A	nti-frictic	on ball				Acc	essory -	3				-		
DE / NDE	bearir	g		620)5-2Z / 6	5205-2Z			Ter	minal bo	ox posit	ion				TOP		
Lubricatio	on met	hod		G	reased fo	or life			Ma	ximum o	cable siz	ze/cond	uit size	1R	x 3C x 3	10mm²/2 x M20) x 1.5	
Type of g	grease				NA				Aux	kiliary te	rminal	box				NA		

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

ronage)	equency and et		0012			
Technical da	ta are subject t	o change. There may be discrepar	ncies between calculat	ed and name plate value	s.	
Efficiency	Furope	China	India	Aus/Nz	Brazil	

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

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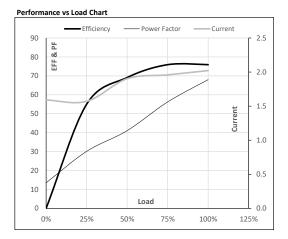


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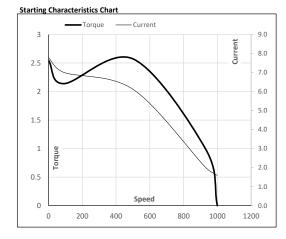
Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Y	50	0.75	1.0	2.0	929	0.80	7.83	IE2	50	S1	1000	0.0036	24

Motor Load	d Data
Load Point	

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.6	1.6	1.9	2.0	2.0	
Torque	Nm	0.0	1.8	3.7	5.6	7.8	
Speed	r/min	1000	983	967	949	929	
Efficiency	%	0.0	55.0	69.1	75.9	75.9	
Power Factor	%	13.5	30.1	41.0	56.2	68.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	91	502	929	1000					
Current	А	7.8	7.0	6.1	2.0	1.6					
Torque	pu	2.5	2.1	2.6	1	0					



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

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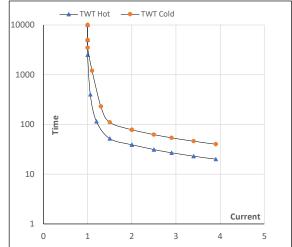
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Y	50	0.75	1.0	2.0	929	0.80	7.83	IE2	50	S1	1000	0.0036	24

Motor Speed Torque Data

	FL	I_1	I ₂	I ₃	I_4	I ₅	LR
s	10000	52	39	31	26	22	20
s	10000	110	78	62	53	45	40
pu	1	1.5	2	2.5	3	3.5	3.9
	s	s 10000 s 10000	s 10000 52 s 10000 110	s 10000 52 39 s 10000 110 78	s 10000 52 39 31 s 10000 110 78 62	s 10000 52 39 31 26 s 10000 110 78 62 53	s 10000 52 39 31 26 22 s 10000 110 78 62 53 45

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 : SCAP753A3131GAAD01

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

Catalog No : SCAP753A3131GAAD01

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