PRODUCT INFORMATION PACKET

Model No: SCA0371A3131GAAD01 Catalog No: SCA0371A3131GAAD01 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 200L Frame, TEFC



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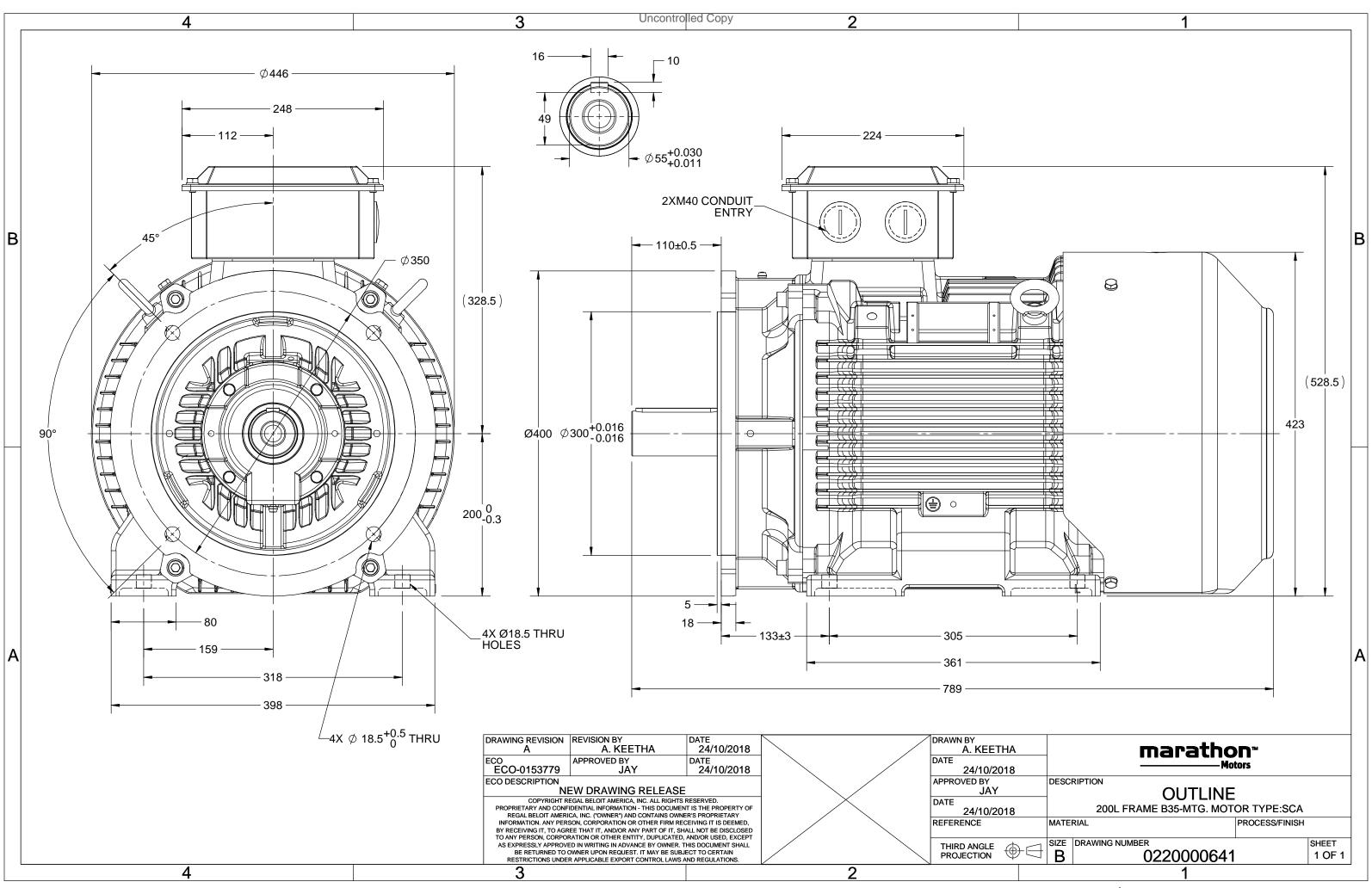
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	415 V
Current	61.7 A	Speed	2955 rpm
Service Factor	1	Phase	3
Efficiency	92.5 %	Power Factor	0.90
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE2

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	789 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085	Outline Drawing	0220000641

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3 of 8





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SCA0371A3131GAAD01 Model No.

U	Δ / Y	f	Р	Р	I	n	т	IE		% EFF a	t load	ł	PF	at_lo	ad	I _A /I _N	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	Δ	50	37	50	61.7	2955	120.51	IE2	-	92.5	92.5	92.2	0.90	0.88	0.81	6.1	2.1	3.1
Motor	type				SCA				Dee	gree of	protecti	on				IP 55		
Enclos					TEFC					unting						IM B35		
	Material				Cast Irc	on				oling me						IC 411		
Frame	size				200L					0	ght - ap	orox.				293		kg
Duty					S1						ht - app					323		kg
,	e variatio	on *			± 10%	5				tor iner						0.1975		kgm ²
	uency variation * ± 5%						Loa	ıd inerti	а				Customer to Provide			Ū		
	ined variation * 10%					Vib	ration l	evel					2.2					
Design				10% N					Noise level (1meter distance from motor)						r) 82			dB(A)
Service	factor				1.0				No	of star	ts hot/co	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	50		°C	Тур	e of co	upling				Direct			
Tempe	rature ri	se (by r	esistand	ce)	70 [Class	5 B]		К	LR	withsta	nd time	(hot/co	ld)		12/25			S
Altitud	e above	sea lev	el		1000			meter	Dir	ection o	of rotatio	on			В	i-directiona	al	
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form	n DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e				RAL 5014			
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Ace	cessory -	1				-		
Rotor t	ype	pe Aluminum Die cast					Accessory - 2					-						
Bearing	g type			A	Anti-frictio	n ball				Ace	cessory -	3				-		
DE / NI	DE bearii	ng		63	812 C3 / 6				Ter	minal b	ox posit	ion				TOP		
Lubrica	ition me	thod			Regrease				Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 5	50mm²/2 x	M40 x 1.5	
Type of	f grease		Sh	ell Gad	us S5 V100) or Equiv	/alent		Aux	kiliary te	erminal	box				NA		

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

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

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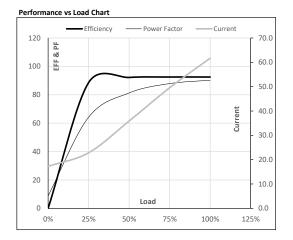
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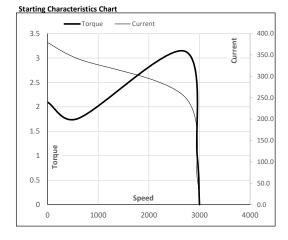
Model No. SCA0371A3131GAAD01

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	37	50.0	61.7	2955	12.29	120.51	IE2	50	S1	1000	0.1975	293.0

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	17.2	22.8	35.9	49.5	61.7	
Torque	Nm	0.0	29.8	59.8	90.0	120.5	
Speed	r/min	3000	2989	2978	2967	2955	
Efficiency	%	0.0	88.6	92.2	92.5	92.5	
Power Factor	%	8.8	64.2	81.3	87.9	90.2	



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	600	2706	2955	3000							
Current	А	378.9	341.0	252.4	61.7	17.2							
Torque	pu	2.1	1.8	3.1	1	0							



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

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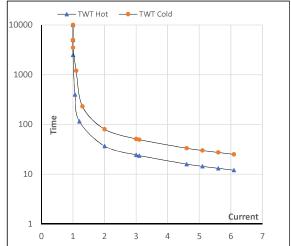
Model No. SCA0371A3131GAAD01

Enclosure	U	Δ / Y	f	Р	Р	Т	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	Δ	50	37	50	61.7	2955	12.29	120.51	IE2	50	S1	1000	0.1975	293

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	37	24	20	15	14	12
TWT Cold	s	10000	80	51	45	30	28	25
Current	pu	1	2	3	4	5	5.5	6.1

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 : SCA0371A3131GAAD01

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

Catalog No : SCA0371A3131GAAD01

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