PRODUCT INFORMATION PACKET

Model No: SCA0223A3111GAAD01 Catalog No: SCA0223A3111GAAD01 TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 200L Frame, TEFC



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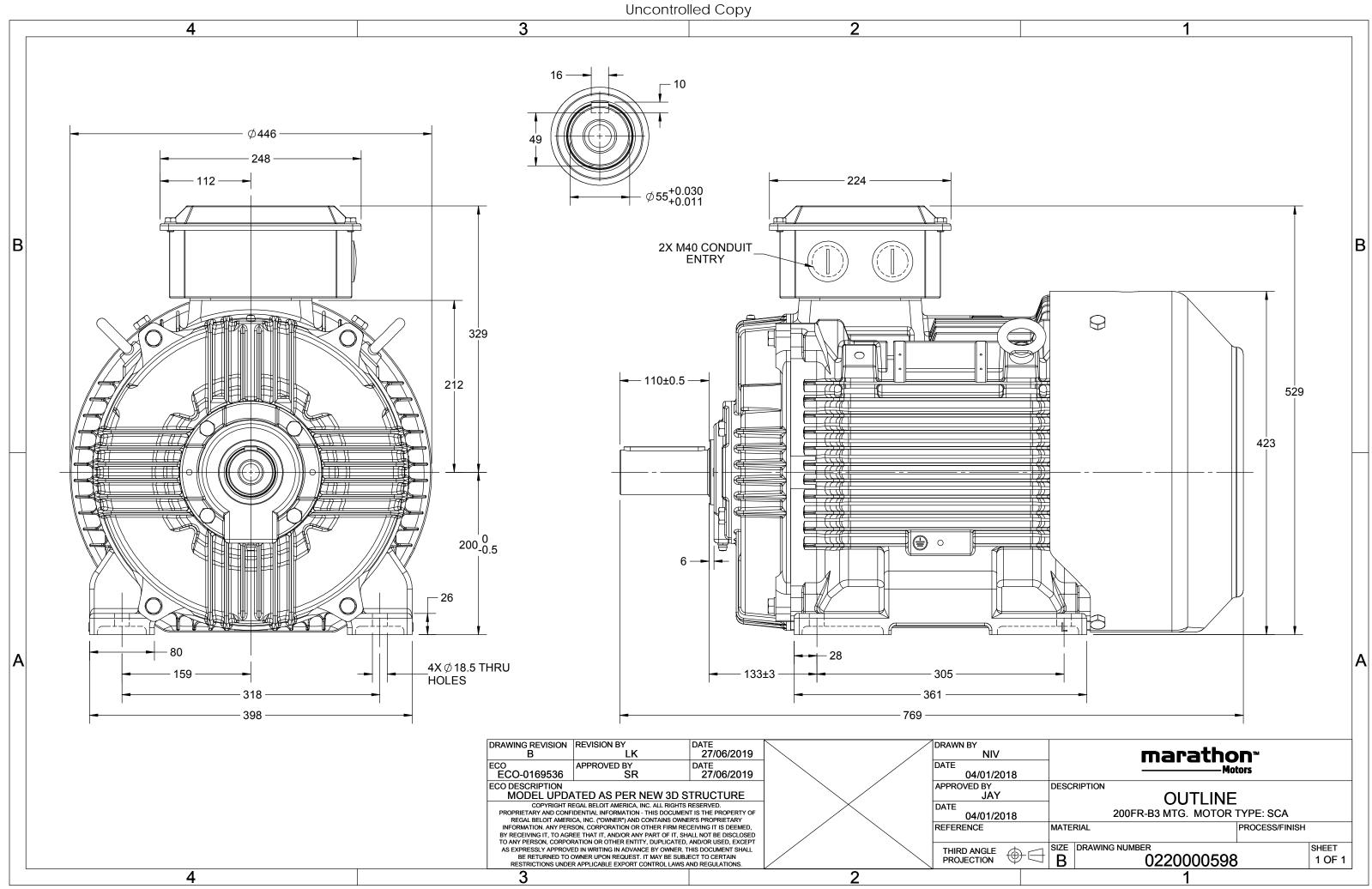
Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW
Frequency	50 Hz	Voltage	415 V
Current	42.8 A	Speed	980 rpm
Service Factor	1	Phase	3
Efficiency	90.9 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	200L 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 6312	Ambient Temperature Opp Drive End Bearing Size	50 °C 6212

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	Сз
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085	Outline Drawing	0220000598

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3 of 8







Model No. SCA0223A3111GAAD01

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load	ł	PF	at lo	bad	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	22	30	42.7	980	218.31	IE2	-	90.9	90.9	91.1	0.79	0.73	0.60	5.3	2.1	2.5
Motor	type				SCA				De	gree of	protecti	on				IP 55		
Enclos	ure				TEFC				Mc	ounting	type					IM B3		
Frame	Materia	l			Cast Ir	on			Co	oling me	ethod					IC 411		
Frame	size	S1						Mc	otor wei	ght - ap	orox.				271		kg	
Duty					± 10% ± 5%					oss weig	ght - app	rox.				301		kg
Voltage	e variatio	on *							Mc	otor ine	rtia					0.3767		kgm ²
Freque	ncy varia	ation *			± 5%				Load inertia						Customer to Provide			
Combi	ned varia	ation *			10% N				Vib	Vibration level						2.2		
Design					Ν	N				Noise level (1meter distance from mo								dB(A)
Service	factor				1.0				No	No. of starts hot/cold/Equally spread					2/3/4			
Insulat	ion class				F				Sta	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	-50		°C	Тур	be of co	upling					Direct		
Tempe	rature ri	se (by i	resistand	ce)	70 [Clas	s B]		К	LR	withsta	nd time	(hot/co	d)			24/45		s
Altitud	e above	sea lev	el		1000	1		meter	Dir	ection o	of rotatio	on			В	i-directional		
Hazard	lous area	a classif	ication		NA				Sta	ndard r	otation				Clockwise form DE			
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	S							
	Temper	ature o	lass		NA					Ac	cessory	- 1				-		
Rotor t	ype			Al	uminum [Die cast				Ac	cessory	- 2				-		
Bearing	g type			A	Anti-frictio	on ball				Ac	cessory	- 3				-		
DE / N	DE beari	ng		63	12 C3 / 6	5212 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod			Regreas	able			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 5	50mm²/2 x M4	0 x 1.5	
Туре о	f grease		Sh	ell Gadu	us S5 V10	0 or Equiv	alent		Au	xiliary te	erminal	ох				NA		
I _a /I _N - L	.ocked R	otor Cu	irrent / I	Rated Cu	urrent				Т _к /	T _N - Bre	akdown	Torque	/ Ratec	l Torque	2			

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 combined variation are as per IEC60034-1

Technical da	Technical data are subject to change. There may be discrepancies between calculated and name plate values.										
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC					
Standards	-	-	IS 12615 : 2018	-	-	-					

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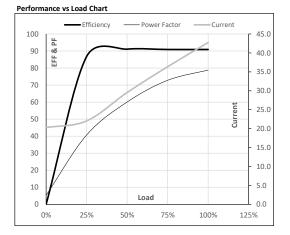
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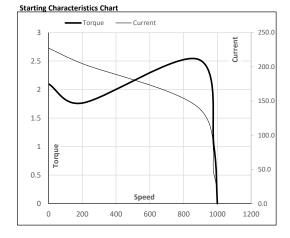
Model No. SCA0223A3111GAAD01

Enclosure	U	Δ / Y	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	Δ	50	22	30.0	42.7	980	22.26	218.31	IE2	50	S1	1000	0.3767	271.0

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	20.3	22.0	29.5	36.4	42.7	
Torque	Nm	0.0	53.7	107.9	162.7	218.3	
Speed	r/min	1000	995	991	986	980	
Efficiency	%	0.0	86.8	91.1	90.9	90.9	
Power Factor	%	5.3	40.7	60.1	72.8	78.8	



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	200	885	980	1000							
Current	А	227.3	204.5	140.9	42.7	20.3							
Torque	pu	2.1	1.8	2.5	1	0							



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

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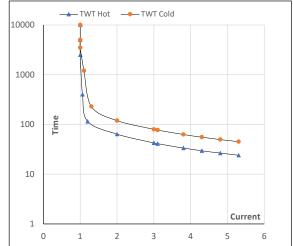
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	22	30	42.7	980	22.26	218.31	IE2	50	S1	1000	0.3767	271

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	64	42	32	28	26	24
TWT Cold	s	10000	119	80	60	53	48	45
Current	pu	1	2	3	4	4.5	5	5.3

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 : SCA0223A3111GAAD01

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

Catalog No : SCA0223A3111GAAD01

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