## **PRODUCT INFORMATION PACKET**

Model No: SCA0112A3111GAAD01 Catalog No: SCA0112A3111GAAD01 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 160M Frame, TEFC



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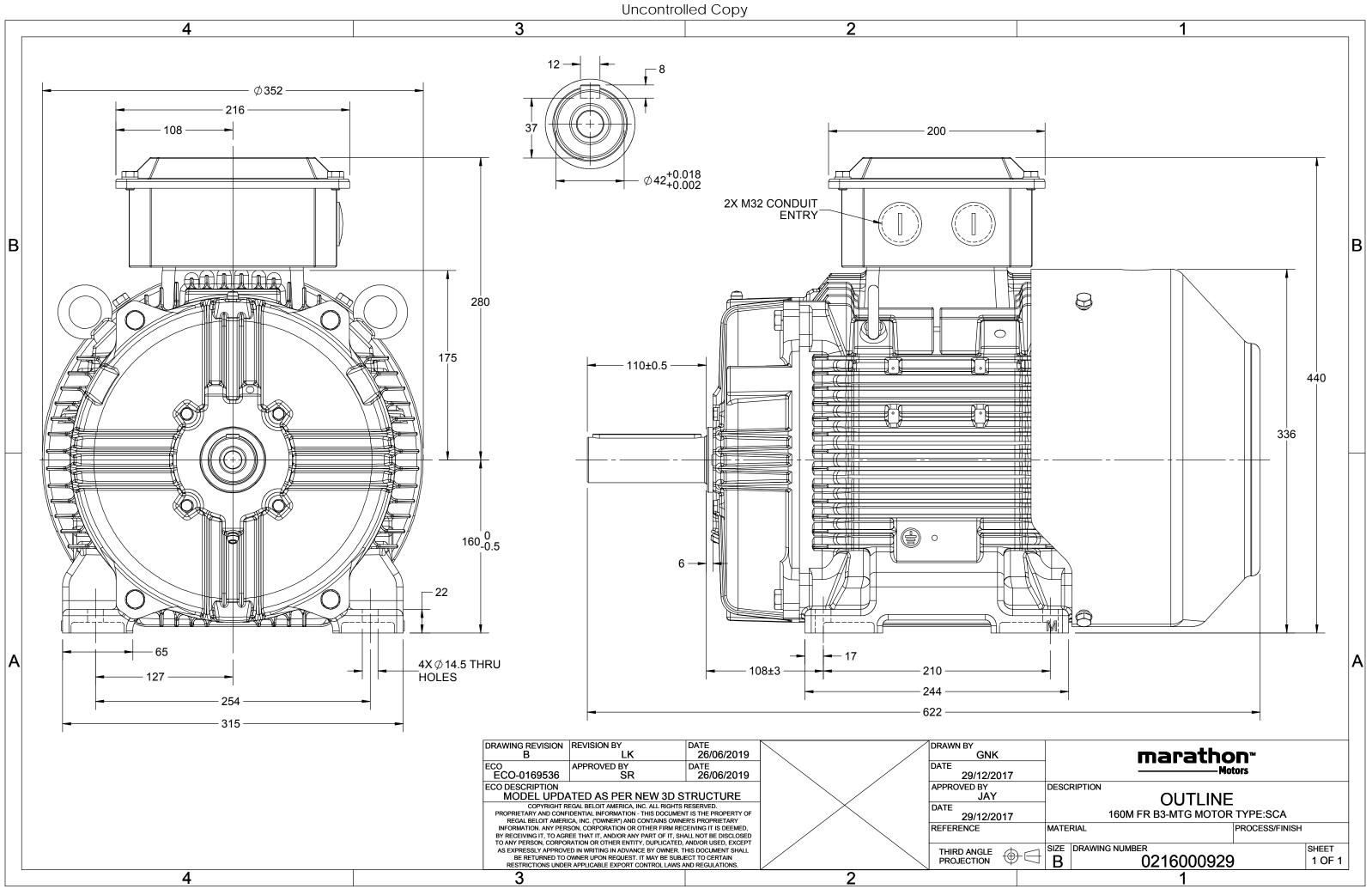
### Nameplate Specifications

Output HP	15 Нр	Output KW	11.0 kW
Frequency	50 Hz	Voltage	415 V
Current	20.3 A	Speed	1467 rpm
Service Factor	1	Phase	3
Efficiency	89.8 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6309	Ambient Temperature Opp Drive End Bearing Size	50 °C 6209
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	622 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085	Outline Drawing	0216000929

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### Model No. SCA0112A3111GAAD01

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE		% EFF a	t load	b	PF	at lo	bad	$I_A/I_N$	$T_A/T_N$	Τ <sub>κ</sub> /Τ <sub>Ν</sub>
(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	11	15	20.3	1467	72.16	IE2	-	89.8	89.8	90.5	0.84	0.80	0.71	5.9	1.9	2.6
Motor	type				SCA				Deg	gree of	protecti	on				IP 55		
Enclos	ure				TEFC	:			Мо	unting	type					IM B3		
Frame	Material				Cast Ir	on			Cod	oling me	ethod					IC 411		
Frame	size				160N	1			Мо	tor wei	ght - ap	prox.				137		k
Duty					S1				Gro	oss weig	ht - app	rox.				157		k
Voltage	e variatio	on *			± 10%	6			Мо	tor iner	tia					0.0595		kgm
Freque	ncy varia	ation *			± 5%				Loa	d inerti	а				Cust	omer to Prov	/ide	
Combi	ned varia	tion *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				Noi	se level	(1mete	er distar	nce fron	n motor	)	69		dB(A
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class				F				Sta	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	-50		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by r	esistand	ce)	70 [ Clas	s B ]		К	LR	withsta	nd time	(hot/co	ld)			15/30		9
Altitud	e above	sea leve	el		1000	)		meter	Dire	ection c	of rotatio	on			В	i-directional		
Hazard	lous area	classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form	DE	
	Zone cla	assificat	tion		NA				Pai	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Aco	cessory	- 1				-		
Rotor t	ype			Al	uminum [	Die cast				Acc	cessory	- 2				-		
Bearing	g type			A	Anti-frictio	on ball				Aco	cessory	- 3				-		
DE / NI	DE bearii	ng		63	09-2Z / 6	5209-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod		(	Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	35mm²/2 X N	/132 x 1.5	
Type o	f grease				NA				Aux	kiliary te	erminal	box				NA		

 $I_{A}/I_{N}$  - Locked Rotor Current / Rated Current  $T_{A}/T_{N}$  - Locked Rotor Torque / Rated Torque

T<sub>K</sub>/T<sub>N</sub> - 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 combined variation are as per IEC60034-1

Technical da	ta are subject to	o change. There may be discrepa	ncies between calculated an	d name plate values.		
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	-	IS 12615 : 2018	-	-	-

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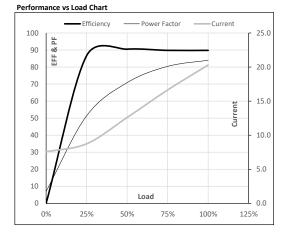


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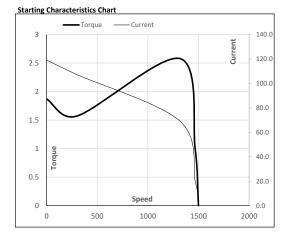
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	415	Δ	50	11	15.0	20.3	1467	7.36	72.16	IE2	50	S1	1000	0.0595	137.0

Motor	Load	Data

	La						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	7.6	8.7	12.6	16.6	20.3	
Torque	Nm	0.0	17.9	36.0	54.3	72.2	
Speed	r/min	1500	1492	1485	1476	1467	
Efficiency	%	0.0	86.7	90.5	89.8	89.8	
Power Factor	%	7.0	51.4	70.9	80.4	83.9	



Forque Data						
	LR	P-Up	BD	Rated	NL	
r/min	0	300	1318	1467	1500	
А	119.1	107.2	69.1	20.3	7.6	
pu	1.9	1.6	2.6	1	0	
	r/min A	LR r/min 0 A 119.1	LR P-Up r/min 0 300 A 119.1 107.2	LR P-Up BD r/min 0 300 1318 A 119.1 107.2 69.1	LR         P-Up         BD         Rated           r/min         0         300         1318         1467           A         119.1         107.2         69.1         20.3	LR         P-Up         BD         Rated         NL           r/min         0         300         1318         1467         1500           A         119.1         107.2         69.1         20.3         7.6



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

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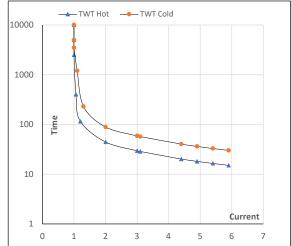
### Model No. SCA0112A3111GAAD01

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 <sup>2</sup> ]	[kg]
TEFC	415	Δ	50	11	15	20.3	1467	7.36	72.16	IE2	50	S1	1000	0.0595	137

### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	S	10000	44	30	25	18	16	15
TWT Cold	s	10000	89	59	50	36	33	30
Current	pu	1	2	3	4	5	5.5	5.9

### 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 : SCA0112A3111GAAD01

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

Catalog No : SCA0112A3111GAAD01

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