PRODUCT INFORMATION PACKET

Model No: SCA0111A3141GAAD01 Catalog No: SCA0111A3141GAAD01 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 160M Frame, TEFC



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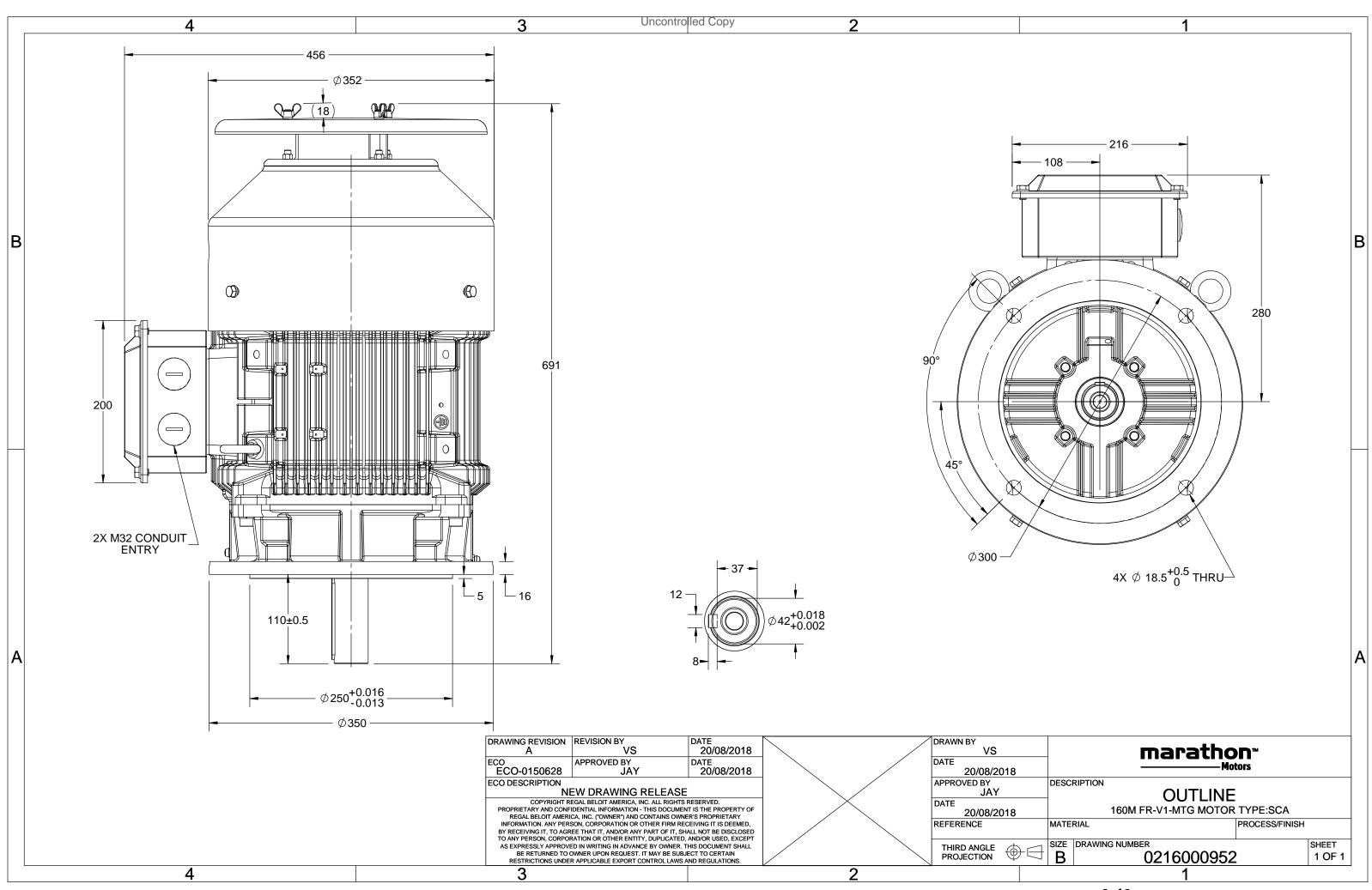
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	415 V
Current	18.8 A	Speed	2937 rpm
Service Factor	1	Phase	3
Efficiency	89.4 %	Power Factor	0.91
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	160M 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 6309	Ambient Temperature Opp Drive End Bearing Size	50 °C 6209

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	691 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085	Outline Drawing	0216000952

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TerraMAX[®]

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	tload	ł	PF	at_lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	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	18.8	2937	36.08	IE2	-	89.4	89.4	89.4	0.91	0.88	0.82	6.7	2.2	3.1
Motor					SCA							on				IP 55		
Enclosu					TEFC											IM V1		
Frame	Material				Cast Irc					0						IC 411		
Frame	size				160N	I		No. of starts hot/cold/Equally sprea Starting method °C Type of coupling K LR withstand time (hot/cold)								138		kg
Duty					S1			Cooling method Motor weight - approx. Gross weight - approx. Motor inertia Load inertia Vibration level Noise level (1meter distance from n							158		kg	
Voltage	e variatio	on *			± 10%	ò			Motor inertia							0.0470		kgm ²
Freque	ncy varia	ation *			± 5%				Load inertia						Custo	omer to Pro	vide	
Combi	ned varia	ation *			10%										2.2		mm/s	
Design					Ν				Noi	se level	(1mete	er distar	nce fror	n motor)	79		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 me	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	50		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by r	esistanc	e)	70 [Class	5 B]		К	LR ۱	withsta	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea lev	el		1000			meter	Dire	ection o	f rotatio	n			В	i-directiona	l.	
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	5					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temper	ature c	lass		NA					Acc	essory -	1				-		
Rotor t	ype			Al	uminum E	Die cast				Acc	essory -	2				-		
Bearing	g type			A	Anti-frictio	n ball				Acc	essory -	3				-		
	DE bearin	ng		63	09-2Z / 6	209-2Z			Ter		ox posit					TOP		
	tion me	0		(Greased fo	or life					cable siz		uit size	1R	x 3C x 3	35mm²/2 X	M32 x 1.5	
	fgrease				NA						erminal	•				NA		
7,420	0. 22.00									,								

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

 $\ensuremath{^*}$ Voltage, Frequency and combine variation are as per IEC60034-1

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

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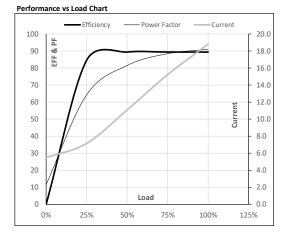
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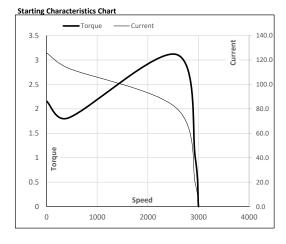
Model No. SCA0111A3141GAAD01

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	11	15.0	18.8	2937	3.68	36.08	IE2	50	S1	1000	0.0470	138.0

Motor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	5.5	7.2	11.1	15.2	18.8	
Torque	Nm	0.0	8.9	18.0	27.1	36.1	
Speed	r/min	3000	2985	2970	2954	2937	
Efficiency	%	0.0	84.6	89.4	89.4	89.4	
Power Factor	%	11.6	64.3	81.5	88.5	91.0	



Motor Speed	Forque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	429	2569	2937	3000	
Current	А	125.9	113.3	80.5	18.8	5.5	
Torque	pu	2.2	1.8	3.1	1	0	



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

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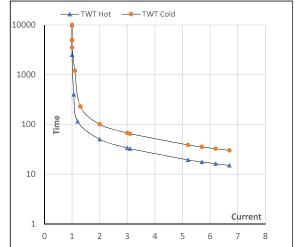
Model No. SCA0111A3141GAAD01

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	11	15	18.8	2937	3.68	36.08	IE2	50	S1	1000	0.0470	138

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	50	34	28	20	18	15
TWT Cold	s	10000	101	67	55	40	37	30
Current	pu	1	2	3	4	5	5.5	6.7

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 : SCA0111A3141GAAD01

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

Catalog No : SCA0111A3141GAAD01

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