# PRODUCT INFORMATION PACKET



Model No: SCAP751A3111GAAD01 Catalog No: SCAP751A3111GAAD01

TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 80M Frame, TEFC



FRegal Rexnord

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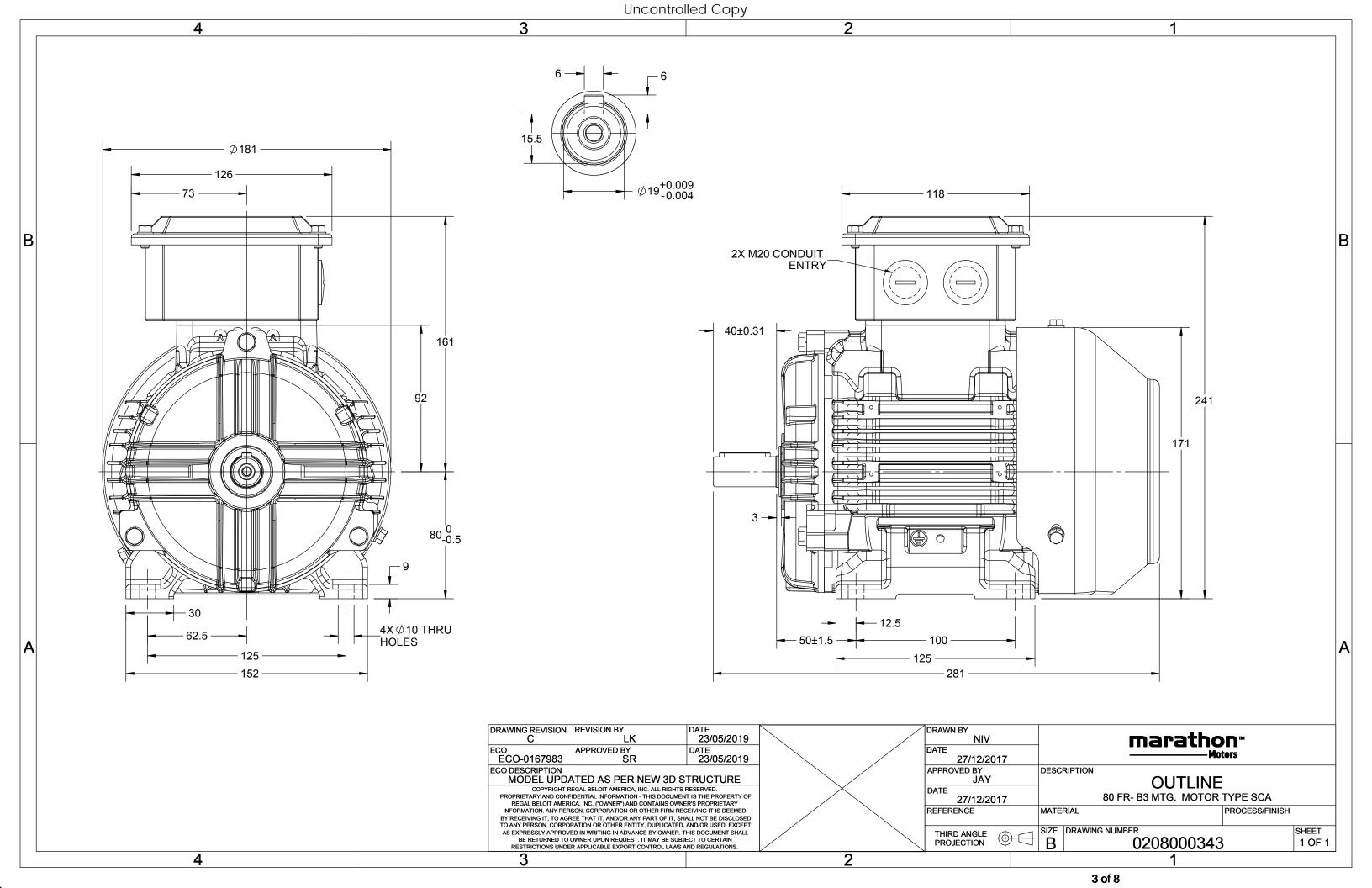
# Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	415 V
Current	1.6 A	Speed	2824 rpm
Service Factor	1	Phase	3
Efficiency	77.4 %	Power Factor	0.86
Duty	<b>S</b> 1	Insulation Class	F
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds		Efficiency Class	IE2

# **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	2	Rotation	Bi-Directional	
Mounting	В3	Motor Orientation	Horizontal	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	281 mm	Frame Length	140 mm	
Shaft Diameter	19 mm	Shaft Extension	40 mm	
Assembly/Box Mounting	TOP			
Outline Drawing	0208000343	Connection Drawing	8442000085	

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DRAWING REVISION	REVISION BY	DATE
A	SN	13/01/2017
ECO-0116390	APPROVED BY SBD	DATE 13/01/2017
ECO DESCRIPTION	1	

## **NEW DRAWING RELEASE**

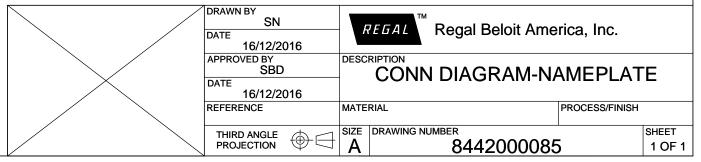
GEOMENTRIC TOLERANCE										
	>0~6	±0.1								
LINEAR DIM	>6~30	±0.2								
	>30~120	±0.3								



## NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







#### Model No. SCAP751A3111GAAD01

U	Δ/Υ	f	Р	Р	I	n	T	IE	9	6 EFF a	t load	t	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_K/T_N$
(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	Υ	50	0.75	1.0	1.6	2824	2.37	IE2	-	77.4	77.4	77.6	0.86	0.81	0.70	5.5	2.4	2.8

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	80M	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +50	°C
Temperature rise (by resistance)	70 [ Class B ]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6204-2Z / 6204-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	16.0	kg
Gross weight - approx.	17.0	kg
Motor inertia	0.0008	kgm <sup>2</sup>
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from mot	tor) 76	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	6/10	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	-	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size	1R x 3C x 10mm <sup>2</sup> /2 x M20 x 1.5	
Auxiliary terminal box	NA	

 $I_A/I_N$  - Locked Rotor Current / Rated Current  $T_A/T_N$  - Locked Rotor Torque / Rated Torque

 $T_K/T_N$  - 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

 $\ensuremath{^{*}}$  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	Global IEC
Standards	-	_	IS 12615 : 2018	-	-	_

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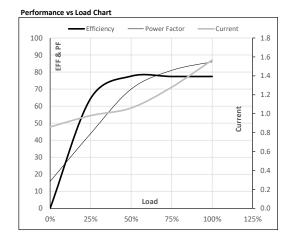




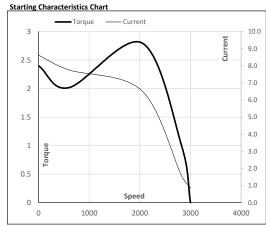
#### Model No. SCAP751A3111GAAD01

Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	T	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	Υ	50	0.75	1.0	1.6	2824	0.24	2.37	IE2	50	S1	1000	0.0008	16

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	0.9	1.0	1.1	1.3	1.6	
Torque	Nm	0.0	0.8	1.6	2.5	2.4	
Speed	r/min	3000	2969	2943	2914	2824	
Efficiency	%	0.0	64.5	77.6	77.4	77.4	
Power Factor	%	15.8	43.9	70.0	81.0	86.0	



Motor Speed	Torque Data					
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2041	2824	3000
Current	Α	8.6	7.8	6.5	1.6	0.9
Torque	pu	2.4	2.0	2.8	1	0



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

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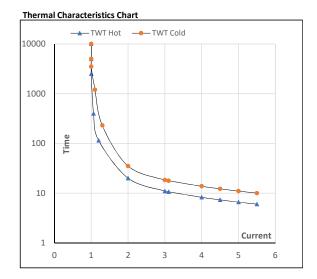




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	415	Υ	50	0.75	1.0	1.6	2824	0.24	2.37	IE2	50	S1	1000	0.0008	16.0

Motor Speed Torque Data								
Load		FL	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	S	10000	20	11	9	8	7	6
TWT Cold	S	10000	35	18	14	12	11	10
Current	pu	1	2	3	4	4.5	5	5.5



**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: SCAP751A3111GAAD01

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

Catalog No: SCAP751A3111GAAD01

Rework No: N/A

### **Directives:**

Low Voltage Directive 2014/35/EU

## Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

<u>Authorized Representative in the Community:</u>

J. cerse

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

(€ 22