PRODUCT INFORMATION PACKET

Model No: SCA7P52A3131GAAD01 Catalog No: SCA7P52A3131GAAD01 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 132M Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E







Product Information Packet: Model No: SCA7P52A3131GAAD01, Catalog No:SCA7P52A3131GAAD01 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 132M Frame, TEFC

marathon®

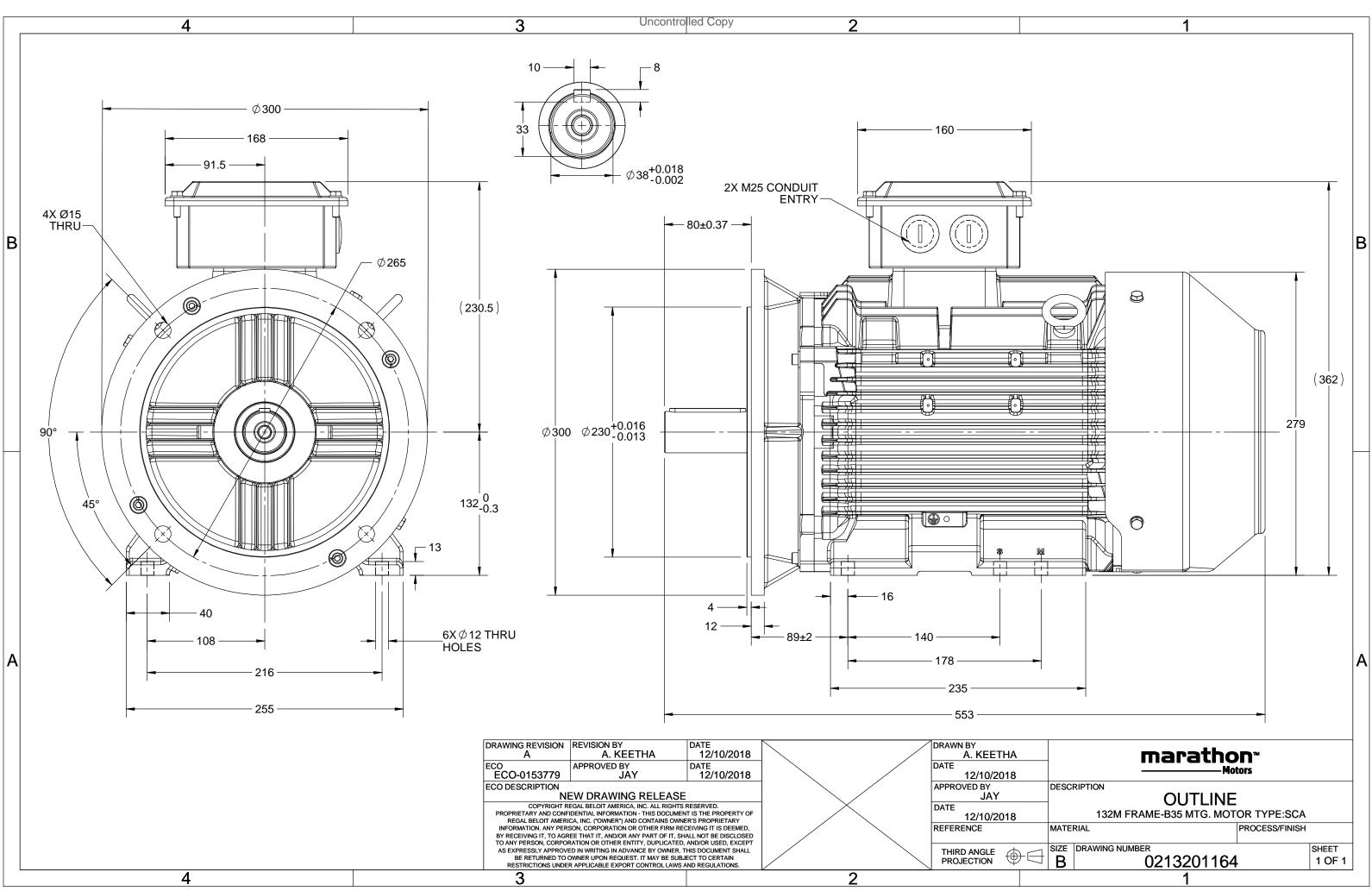
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	50 Hz	Voltage	415 V
Current	13.9 A	Speed	1454 rpm
Service Factor	1	Phase	3
Efficiency	88.7 %	Power Factor	0.85
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	132M 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 6308	Ambient Temperature Opp Drive End Bearing Size	50 °C 6208

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	4	Rotation	Bi-Directional	
Mounting	B35	Motor Orientation	Horizontal	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	553 mm	Frame Length	290 mm	
Shaft Diameter	38 mm	Shaft Extension	80 mm	
Assembly/Box Mounting	ТОР			
Outline Drawing	0213201164	Connection Drawing	8442000085	

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 12/02/2022



3 of 8







Model No. SCA7P52A3131GAAD01

U	Δ / Y	f	Р	Р	I	n	т	IE	ç	% EFF a	t load	ł	PF	at lo	ad	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	7.5	10	13.9	1454	49.24	IE2	-	88.7	88.7	89.3	0.85	0.80	0.69	7.8	3.4	3.5

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	132M		Motor weight - approx.	100	kg
Duty	S1		Gross weight - approx.	103	kg
Voltage variation *	± 10%		Motor inertia	0.0320	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	Ν		Noise level (1meter distance from mot	or) 67	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +50	°C	Type of coupling	Direct	
Temperature rise (by resistance)	70 [Class B]	к	LR withstand time (hot/cold)	8/13	s
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	-	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6308-2Z / 6208-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 16mm²/2 x M25 x 1.5	
Type of grease	NA		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

* Voltage, Frequency and combine 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	-	-	-					

REGAL

marathon®

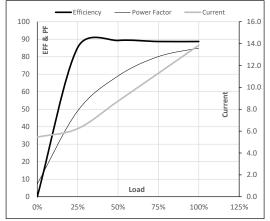


Model No. SCA7P52A3131GAAD01

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	7.5	10	13.9	1454	5.02	49.24	IE2	50	S1	1000	0.0320	100

Motor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	5.5	6.2	8.7	11.3	13.9	
Torque	Nm	0.0	12.0	24.1	36.4	49.2	
Speed	r/min	1500	1489	1478	1467	1454	
Efficiency	%	0.0	85.2	89.3	88.7	88.7	
Power Factor	%	7.3	49.0	69.0	80.1	84.9	

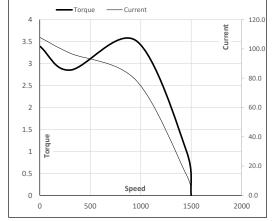
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	300	954	1454	1500
Current	А	107.9	97.1	78.6	13.9	5.5
Torque	pu	3.4	2.9	3.5	1	0

Starting Characteristics Chart



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

Issued By Issued Date

REGAL





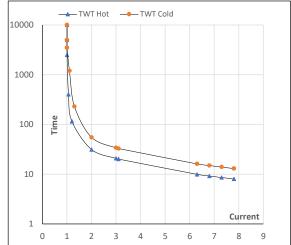
Model No. SCA7P52A3131GAAD01

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 ²]	[kg]
TEFC	415	Δ	50	7.5	10	13.9	1454	5.02	49.24	IE2	50	S1	1000	0.0320	100

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	31	21	16	12	9	8
TWT Cold	S	10000	55	34	27	20	15	13
Current	pu	1	2	3	4	5	6	7.8

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL



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 : SCA7P52A3131GAAD01

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

Catalog No : SCA7P52A3131GAAD01

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

(€ 22

Authorized Representative in the Community:

Julian Clark Marketing Engineer