PRODUCT INFORMATION PACKET



Model No: SCA1P52A3141GAAD01
Catalog No: SCA1P52A3141GAAD01

TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 90L Frame, TEFC



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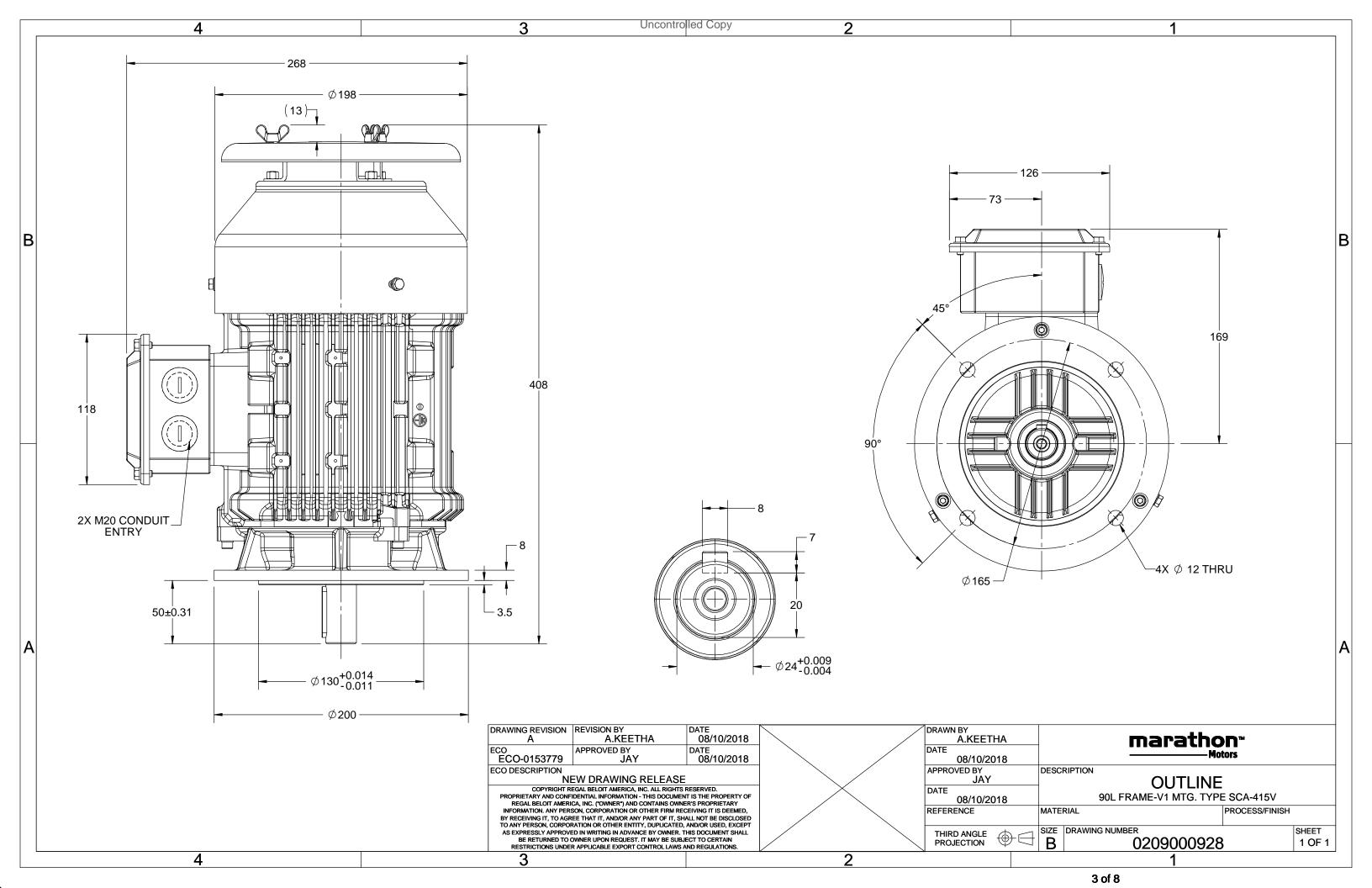
Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	50 Hz	Voltage	415 V
Current	3.3 A	Speed	1439 rpm
Service Factor	1	Phase	3
Efficiency	82.8 %	Power Factor	0.77
Duty	S1	Insulation Class	F
Frame	90L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE2

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	408 mm	Frame Length	185 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085	Outline Drawing	0209000928

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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

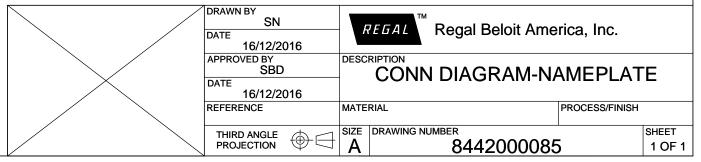
GEOMENTRIC TOLERANCE										
	>0~6	±0.1								
LINEAR DIM	>6~30	±0.2								
	>30~120	±0.3								



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. SCA1P52A3141GAAD01

U	Δ/Υ	f	Р	Р	I	n	T	IE	9	% EFF a	t load	t	PF	at lo	ad	I _A /I _N	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	1.5	2.0	3.3	1439	9.90	IE2	-	82.8	82.8	78.6	0.77	0.67	0.52	5.9	3.1	2.8

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	90L	
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	6205-2Z / 6205-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM V1	
Cooling method	IC 411	
Motor weight - approx.	30	kg
Gross weight - approx.	31	kg
Motor inertia	0.0039	kgm ²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from moto	or) 58	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	10/20	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 1	R x 3C x 10mm ² /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

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

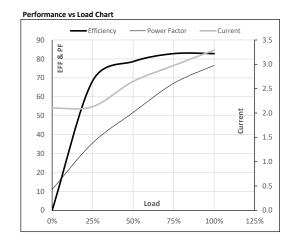




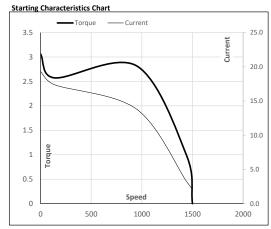
Model No. SCA1P52A3141GAAD01

Enclosure	U	Δ/Υ	f	Р	Р	I	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Υ	50	1.5	2.0	3.3	1439	1.01	9.90	IE2	50	S1	1000	0.0039	30.0

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	2.1	2.1	2.6	3.0	3.3	
Torque	Nm	0.0	2.4	4.8	7.3	9.9	
Speed	r/min	1500	1485	1471	1456	1439	
Efficiency	%	0.0	68.4	78.6	82.8	82.8	
Power Factor	%	11.0	35.6	51.7	67.1	76.6	



Motor Speed	Torque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	136	949	1439	1500	
Current	Α	19.3	17.4	13.8	3.3	2.1	
Torque	pu	3.1	2.6	2.8	1	0	



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

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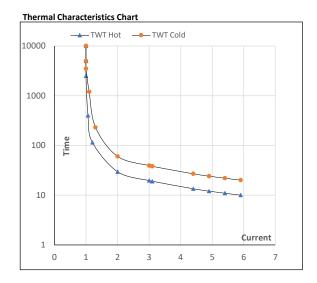




Model No. SCA1P52A3141GAAD01

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	1.5	2.0	3.3	1439	1.01	9.90	IE2	50	S1	1000	0.0039	30

Motor Speed Torque Data								
Load		FL	I_1	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	30	20	15	12	11	10
TWT Cold	S	10000	60	39	30	24	22	20
Current	pu	1	2	3	4	5	5.5	5.9



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

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BEEN



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: SCA1P52A3141GAAD01

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

Catalog No: SCA1P52A3141GAAD01

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

Julian Clark

Marketing Engineer

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

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