PRODUCT INFORMATION PACKET



Model No: SCA18P3A3131GAAD01 Catalog No: SCA18P3A3131GAAD01

TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 200L Frame, TEFC





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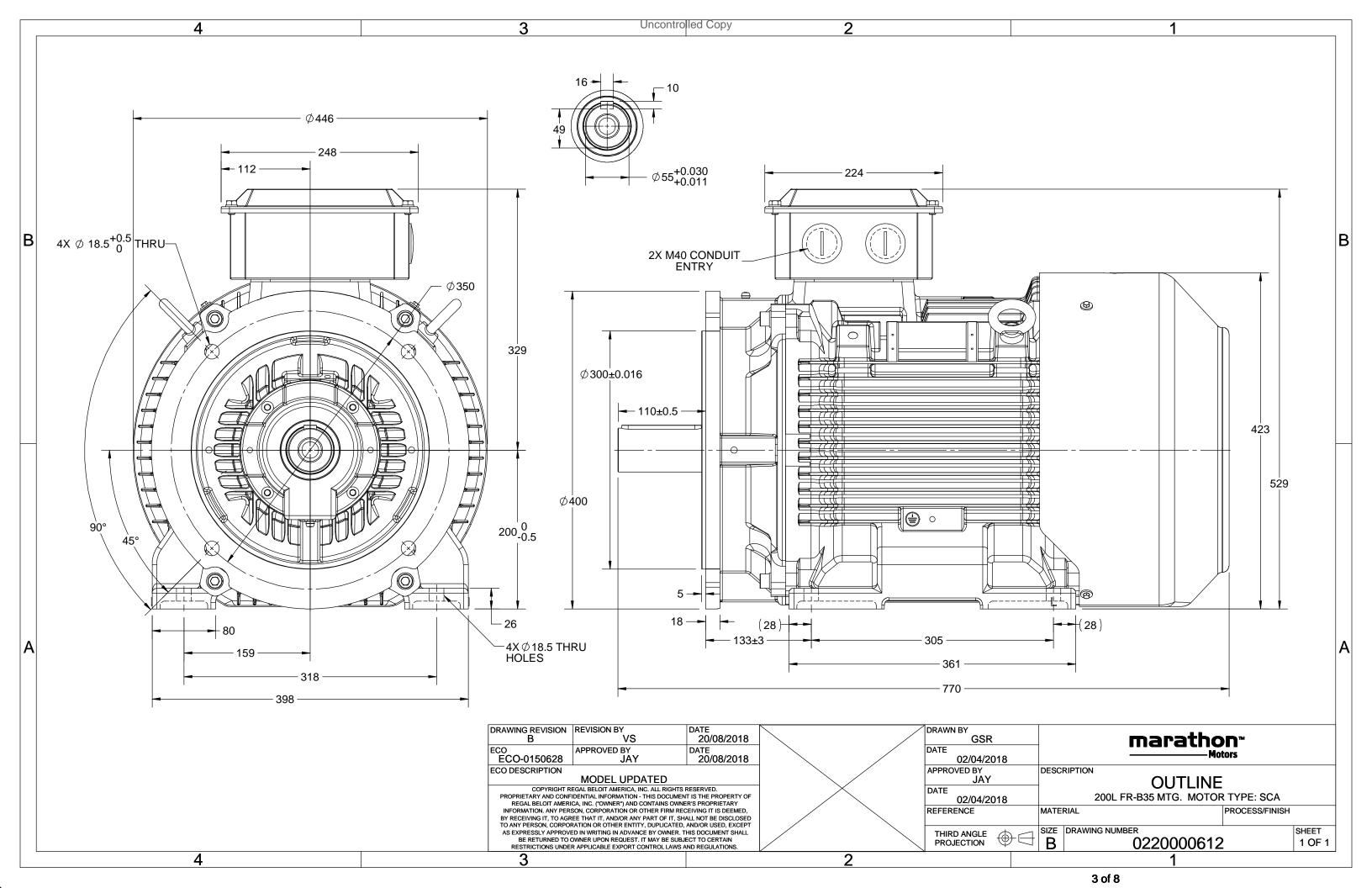
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	415 V
Current	36.1 A	Speed	980 rpm
Service Factor	1	Phase	3
Efficiency	90.4 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	4	Efficiency Class	IE2

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	TOP		
Connection Drawing	8442000085	Outline Drawing	0220000612

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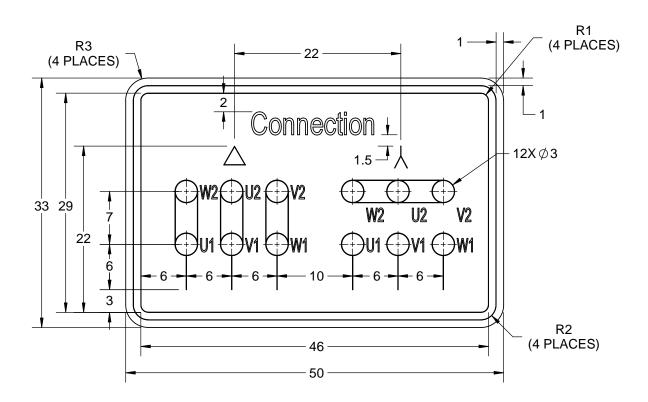


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DRAWING REVISION	REVISION BY	DATE
A	SN	13/01/2017
ECO-0116390	APPROVED BY SBD	DATE 13/01/2017
ECO DESCRIPTION	1	

NEW DRAWING RELEASE

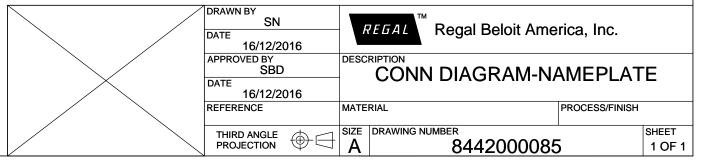
GEOMENTRIC TOLERANCE									
	>0~6	±0.1							
LINEAR DIM	>6~30	±0.2							
	>30~120	±0.3							



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. SCA18P3A3131GAAD01

U	Δ/Υ	f	Р	Р	1	n	Т	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	Δ	50	18.5	25	36.1	980	182.14	IE2	-	90.4	90.4	90.6	0.79	0.73	0.60	5.2	2.0	2.5

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	200L	
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 resist	ance) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	on NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6312 C3 / 6212 C3	
Lubrication method	Regreasable	
Type of grease	Shell Gadus S5 V100 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM B35	
Cooling method	IC 411	
Motor weight - approx.	262	kg
Gross weight - approx.	292	kg
Motor inertia	0.3254	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mot	tor) 72	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	24/45	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 50mm ² /2 x M40 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

* 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	-	<u>-</u>	IS 12615 : 2018	-	-	_

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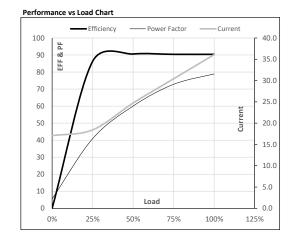




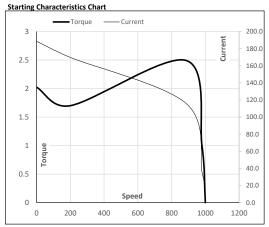
Model No. SCA18P3A3131GAAD01

Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	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	Δ	50	18.5	25.0	36.1	980	18.57	182.14	IE2	50	S1	1000	0.3254	262.0

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	17.1	18.4	24.7	30.4	36.1	
Torque	Nm	0.0	44.8	89.9	135.6	182.1	
Speed	r/min	1000	995	990	985	980	
Efficiency	%	0.0	86.3	90.6	90.4	90.4	
Power Factor	%	5.5	40.9	60.1	72.8	78.9	



Motor Speed	Torque Data					
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	200	886	980	1000
Current	Α	188.6	169.7	116.0	36.1	17.1
Torque	pu	2.0	1.7	2.5	1	0



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

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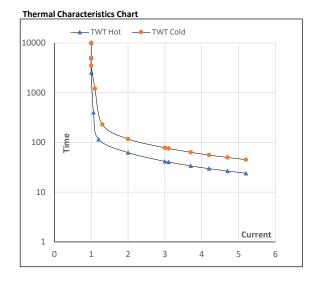




Model No. SCA18P3A3131GAAD01

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	415	Δ	50	18.5	25	36.1	980	18.57	182.14	IE2	50	S1	1000	0.3254	262

Motor Speed Torque Data								
Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	62	42	32	28	26	24
TWT Cold	S	10000	117	78	60	53	48	45
Current	pu	1	2	3	4	4.5	5	5.2



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: SCA18P3A3131GAAD01

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

Catalog No: SCA18P3A3131GAAD01

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:

Michael A. Logsdon

Vice President, Technology

Created on 09/01/2022

Authorized Representative in the Community:

J. cerse

Julian Clark
Marketing Engineer

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