PRODUCT INFORMATION PACKET



Model No: SCA0452A3141GAAD01 Catalog No: SCA0452A3141GAAD01

TerraMAX® Cast Iron Motor, 60 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 225M Frame, TEFC





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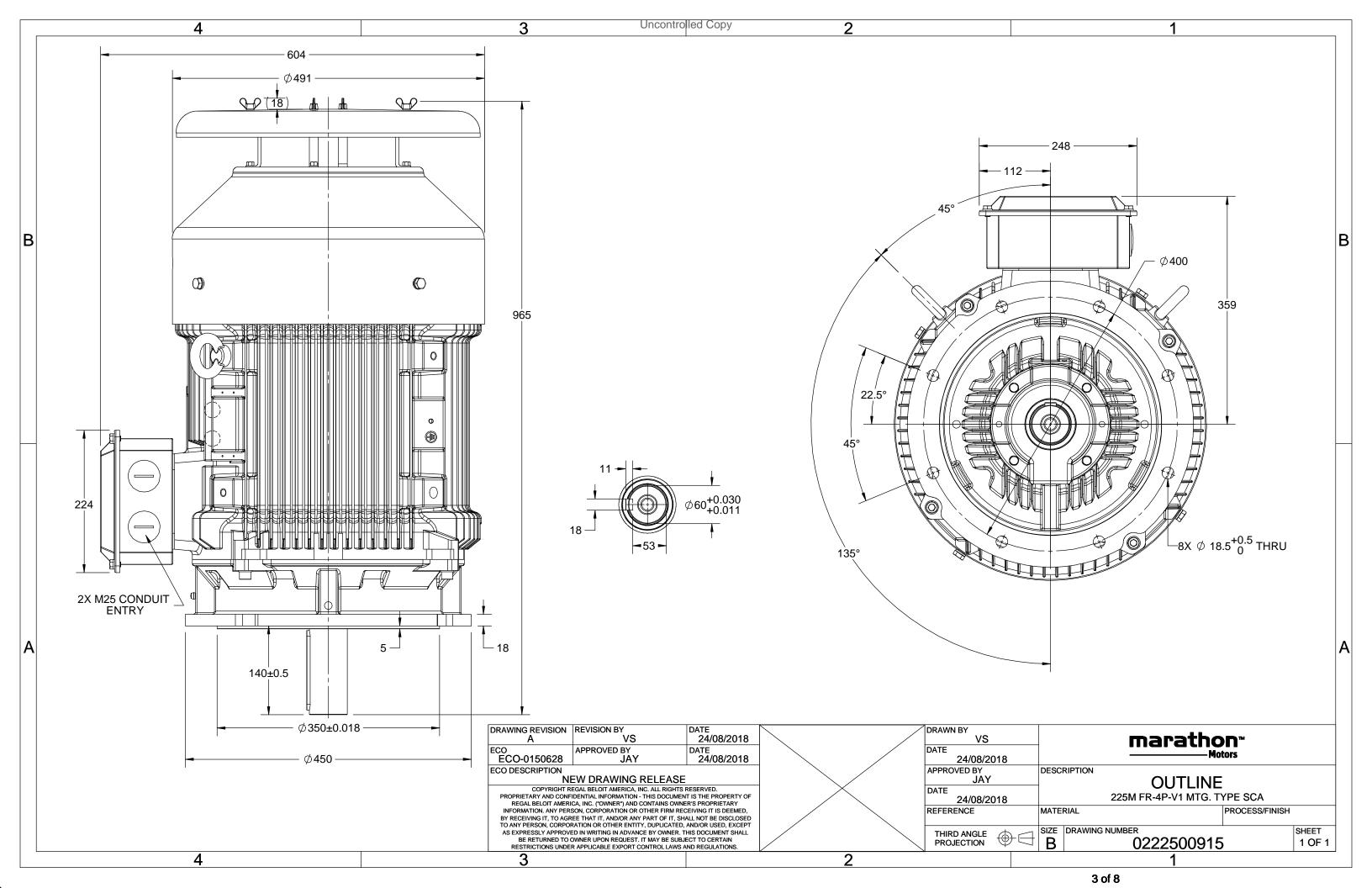
Nameplate Specifications

Output HP	60 Hp	Output KW	45.0 kW
Frequency	50 Hz	Voltage	415 V
Current	77.7 A	Speed	1477 rpm
Service Factor	1	Phase	3
Efficiency	93.1 %	Power Factor	0.87
Duty	S 1	Insulation Class	F
Frame	225M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213
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	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	965 mm	Frame Length	425 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0222500915	Connection Drawing	8442000085

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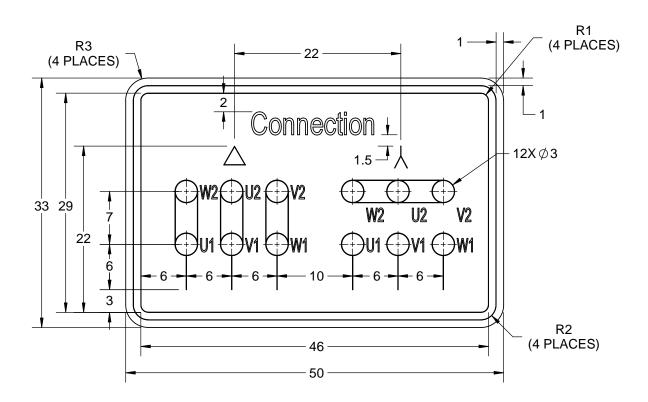


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DRAWING REVISION	REVISION BY	DATE
A	SN	13/01/2017
ECO-0116390	APPROVED BY SBD	DATE 13/01/2017
ECO DESCRIPTION	1	

NEW DRAWING RELEASE

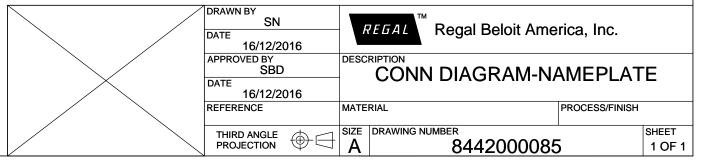
GEOMENTRIC TOLERANCE									
	>0~6	±0.1							
LINEAR DIM	>6~30	±0.2							
	>30~120	±0.3							



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.

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Model No. SCA0452A3141GAAD01

U	Δ/Υ	f	Р	Р	1	n	T	IE	ç	% EFF a	t load	i	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	45	60	77.7	1477	289.55	IE2	-	93.1	93.1	94.0	0.87	0.83	0.75	6.1	2.3	2.9

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	225M	
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 resista	ance) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classificatio	on NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6313 C3 / 6213 C3	
Lubrication method	Regreasable	
Type of grease	Shell Gadus S5 V100 or Equivalent	

IP 55	
IM V1	
IC 411	
396	kg
426	kg
0.5867	kgm ²
Customer to Provide	
2.2	mm/s
76	dB(A)
2/3/4	
DOL	
Direct	
15/30	S
Bi-directional	
Clockwise form DE	
RAL 5014	
-	
-	
-	
TOP	
x 3C x 50mm²/2 x M40 x 1.5	
NA	
	IM V1 IC 411 396 426 0.5867 Customer to Provide 2.2 76 2/3/4 DOL Direct 15/30 Bi-directional Clockwise form DE RAL 5014 TOP x 3C x 50mm²/2 x M40 x 1.5

 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	-	-	_

DEGAL

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

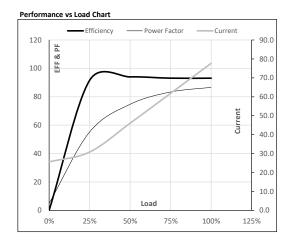




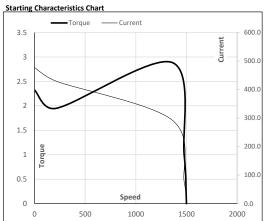
Model No. SCA0452A3141GAAD01

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	45	60.0	77.7	1477	29.53	289.55	IE2	50	S1	1000	0.5867	396.0

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	25.6	30.8	46.0	61.9	77.7	
Torque	Nm	0.0	71.5	143.5	216.0	289.5	
Speed	r/min	1500	1495	1489	1484	1477	
Efficiency	%	0.0	91.6	94.0	93.1	93.1	
Power Factor	%	4.9	55.2	74.7	83.4	86.6	



Motor Speed	Torque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1357	1477	1500	
Current	Α	477.0	429.3	293.6	77.7	25.6	
Torque	nu	2.3	1.9	2.9	1	0	



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

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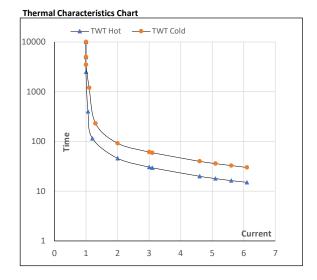




Model No. SCA0452A3141GAAD01

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-m²]	[kg]
TEFC	415	Δ	50	45	60	77.7	1477	29.53	289.55	IE2	50	S1	1000	0.5867	396

Motor Speed Torque Data								
Load		FL	I_1	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	46	31	25	19	17	15
TWT Cold	S	10000	92	61	50	37	32	30
Current	pu	1	2	3	4	5	5.5	6.1



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

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DECAL



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: SCA0452A3141GAAD01

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

Catalog No: SCA0452A3141GAAD01

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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