PRODUCT INFORMATION PACKET

marathon®

Model No: TCA0551A3131GACD01 Catalog No: TCA0551A3131GACD01 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 415 V, 250M Frame



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marathon

Nameplate Specifications

Phase	3	Output HP	75 Hp
Output KW	55.0 kW	Voltage	415 V
Speed	2979 r/min	Service Factor	1
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.3 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	90.2 A	Power Factor	0.9
Duty	S1	Insulation Class	F
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	938 mm	Frame Length	460 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0225000375	Connection Drawing	8442000085

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

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



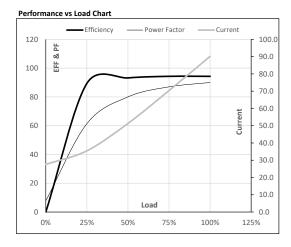




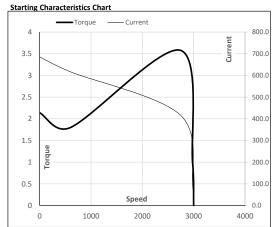
Model No. TCA0551A3131GACD01

Enclosure	U	Δ / Y	f	Р	Р	1	n	T	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	55	75.0	90.2	2979	18.28	179.27	IE3	50	S1	1000	0.7574	560

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 27.6 35.4 51.3 70.3 90.2 Α 179.3 Torque Nm 0.0 44.6 89.3 134.2 2990 3000 2995 2985 Speed r/min 2979 Efficiency % 0.0 89.4 93.2 94.3 94.3 Power Factor 7.8 61.4 80.0 87.0 90.0



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 600 2741 2979 3000 Speed r/min Current Α 685.2 616.7 417.7 90.2 27.6 Torque pu



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

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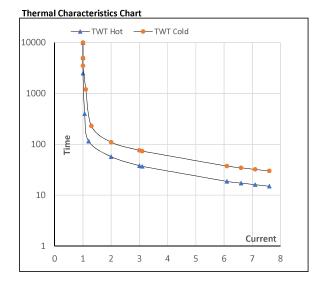




Model No. TCA0551A3131GACD01

Γ	Enclosure	U	Δ/Y	f	Р	Р	- 1	n	Т	Т	ΙE	Amb	Duty	Elevation	Inertia	Weight
		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
Γ	TEFC	415	Δ	50	55	75	90.2	2979	18.27	179.27	IE3	50	S1	1000	0.7574	560

Motor Speed Torque Data LR Load FL s 10000 57 15 TWT Hot 25 20 TWT Cold s 10000 110 76 60 45 40 30 Current 1 3 5 5.5 7.6 pu



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: TCA0551A3131GACD01

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

Catalog No: TCA0551A3131GACD01

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:

J. Clux

Authorized Representative in the Community:

Michael A. Logsdon Vice President, Technology Julian Clark Marketing Engineer

Created on 09/01/2022

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