PRODUCT INFORMATION PACKET



Model No: TCA2P22A3131GACD01 Catalog No: TCA2P22A3131GACD01

TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 100L Frame, TEFC



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Product Information Packet: Model No: TCA2P22A3131GACD01, Catalog No:TCA2P22A3131GACD01 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 100L Frame, TEFC



Nameplate Specifications

Phase	3	Output HP	3 Hp
Output KW	2.2 kW	Voltage	415 V
Speed	1457 r/min	Service Factor	1
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	86.7 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	4.3 A	Power Factor	0.83
Duty	S 1	Insulation Class	F
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
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	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	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085		

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

NEW DRAWING RELEASE

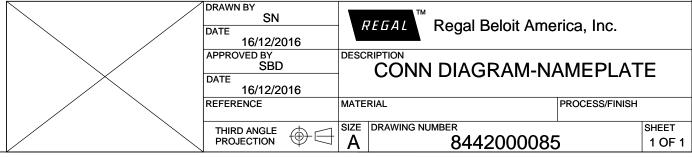
GEOMENTRIC TOLERANCE									
	>0~6	±0.1							
LINEAR DIM	>6~30	±0.2							
	>30~120	±0.3							



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





TerraMAX[®]

Model No. TCA2P22A3131GACD01

U	Δ/Υ	f	Р	Р	I	n	Т	IE	% EFF at load			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	2.2	3.0	4.3	1457	14.66	IE3	-	86.7	86.7	85.2	0.83	0.77	0.64	7.2	2.4	3.0

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	100L	
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 bearing	3
DE / NDE bearing	6206-2Z / 6206-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B35	
Cooling method	IC 411	
Motor weight - approx.	41	kg
Gross weight - approx.	44	kg
Motor inertia	0.0115	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from motor)	55	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 1R >	x 3C x 10mm²/2 x M20 x 1.5	
Auxiliary terminal box	NA	

 $\rm I_A/I_N$ - Locked Rotor Current / Rated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - 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	-	-	IS 12615 : 2018	-	-	_

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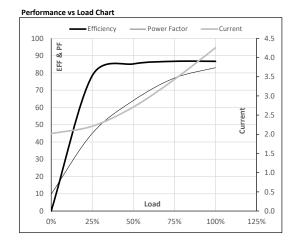




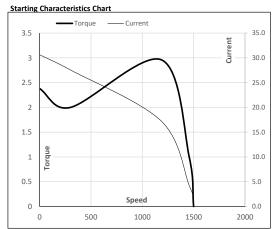
Model No. TCA2P22A3131GACD01

Enclosure	U	Δ/Υ	f	Р	Р	1	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	Υ	50	2.2	3.0	4.3	1457	1.49	14.66	IE3	50	S1	1000	0.0115	41

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	2.0	2.2	2.7	3.4	4.3	
Torque	Nm	0.0	3.6	7.2	10.9	14.7	
Speed	r/min	1500	1490	1480	1469	1457	
Efficiency	%	0.0	78.4	85.2	86.7	86.7	
Power Factor	%	9.8	45.0	64.0	77.0	83.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 300 1186 1457 1500 Speed r/min Current Α 30.6 27.6 17.2 4.3 2.0 Torque pu



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

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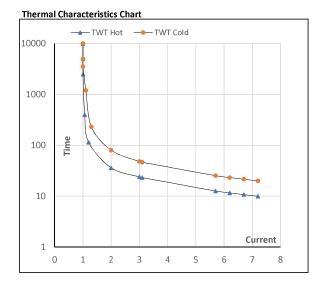




Model No. TCA2P22A3131GACD01

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	2.2	3.0	4.3	1457	1.49	14.66	IE3	50	S1	1000	0.0115	41

Motor Speed Torque Data LR Load FL s 10000 10 TWT Hot 20 TWT Cold s 10000 40 30 27 20 Current 3 5 5.5 7.2 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: TCA2P22A3131GACD01

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

Catalog No: TCA2P22A3131GACD01

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