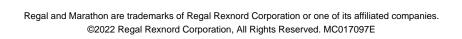
PRODUCT INFORMATION PACKET



Model No: TCA0371A3121GACD01 Catalog No: TCA0371A3121GACD01 Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 200L Frame, TEFC







Product Information Packet: Model No: TCA0371A3121GACD01, Catalog No:TCA0371A3121GACD01 Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 200L Frame, TEFC



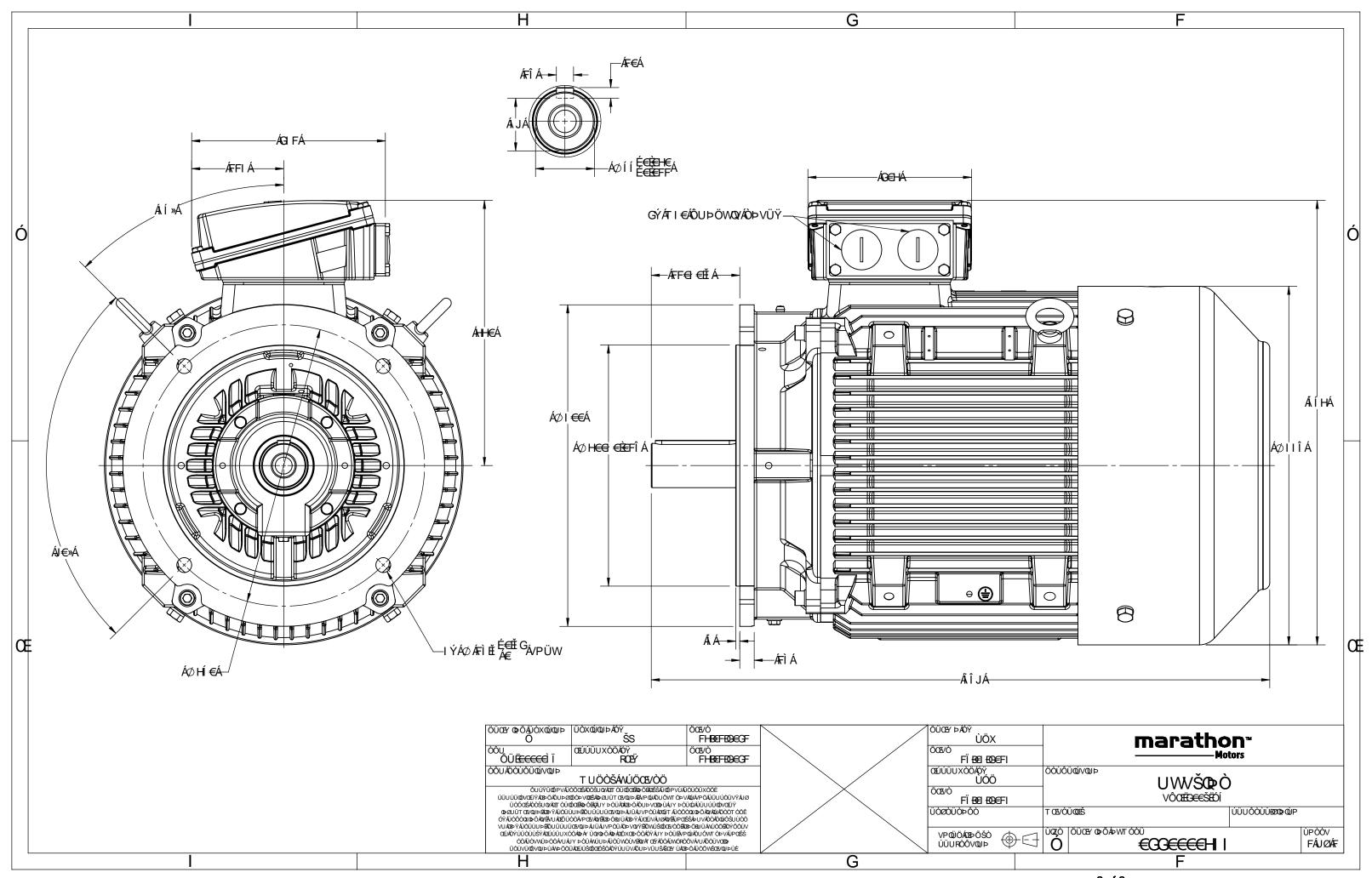
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW			
Frequency	50 Hz	Voltage	415 V			
Current	61.7 A	Speed	2969 rpm			
Service Factor	1	Phase	3			
Efficiency	93.7 %	Power Factor	0.89			
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	1	Efficiency Class	IE3			

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	С3	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	Тор		
Connection Drawing	8442000085	Outline Drawing	0220000344

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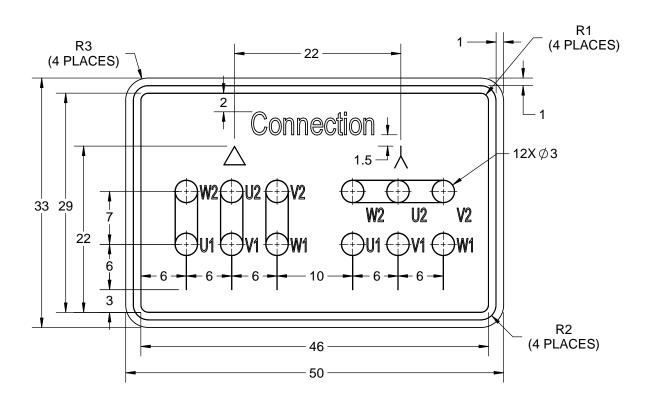


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DRAWING REVISION	REVISION BY	DATE
A	SN	13/01/2017
ECO-0116390	APPROVED BY SBD	DATE 13/01/2017
ECO DESCRIPTION	1	

NEW DRAWING RELEASE

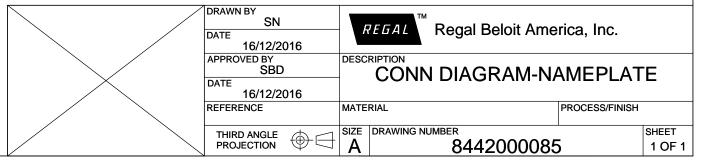
GEOM	GEOMENTRIC TOLERANCE										
	>0~6	±0.1									
LINEAR DIM	>6~30	±0.2									
	>30~120	±0.3									



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. TCA0371A3121GACD01

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	Δ	50	37	50	61.7	2969	119.94	IE3	-	93.7	93.7	92.8	0.89	0.86	0.78	6.7	2.0	3.2
ĺ																		

Motor type	TCA	
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 resis	tance) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classificati	on NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball bearing	
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 B5	
Cooling method	IC 411	
Motor weight - approx.	307	kg
Gross weight - approx.	337	kg
Motor inertia	0.2934	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from moto	or) 73	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	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	LR x 3C x 50mm ² /2 x M40 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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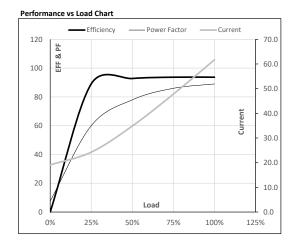




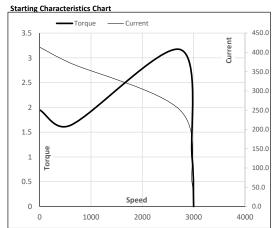
Model No. TCA0371A3121GACD01

Enclosure	U	Δ/Υ	f	Р	Р	1	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	37	50.0	61.7	2969	12.23	119.94	IE3	50	S1	1000	0.2934	307

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 19.1 24.3 34.9 47.8 61.7 Α 89.7 Torque Nm 0.0 29.7 59.6 119.9 3000 2985 2977 Speed r/min 2992 2969 Efficiency % 0.0 89.1 92.8 93.7 93.7 Power Factor 7.6 60.0 78.0 86.0 89.0



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 600 2731 2969 3000 0 Speed r/min Current Α 413.6 372.2 250.6 61.7 19.1 Torque pu



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

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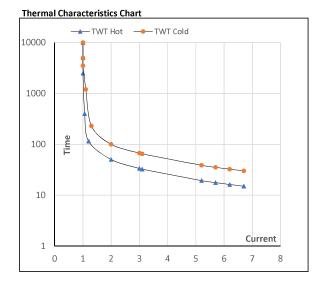




Model No. TCA0371A3121GACD01

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	37	50	61.7	2969	12.22	119.94	IE3	50	S1	1000	0.2934	307

Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot 20 TWT Cold s 10000 100 67 60 42 36 30 Current 1 3 5 5.5 6.7 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: TCA0371A3121GACD01

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

Catalog No: TCA0371A3121GACD01

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. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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