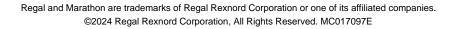
PRODUCT INFORMATION PACKET



Model No: TCA1P11A3113GACD01 Catalog No: TCA1P11A3113GACD01

Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 80M Frame, TEFC







Product Information Packet: Model No: TCA1P11A3113GACD01, Catalog No:TCA1P11A3113GACD01 Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 80M Frame, TEFC



Nameplate Specifications

Phase	3 Output HP	Output HP	1.50 Hp
Output KW	1.1 kW	Voltage	415 V
Speed	2872 rpm	Service Factor	1
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	82.7 %
Ambient Temperature	50 ℃	Frequency	50 Hz
Current	2.2 A	Power Factor	0.85
Duty	S1	Insulation Class	F
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
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	B3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	281 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085		

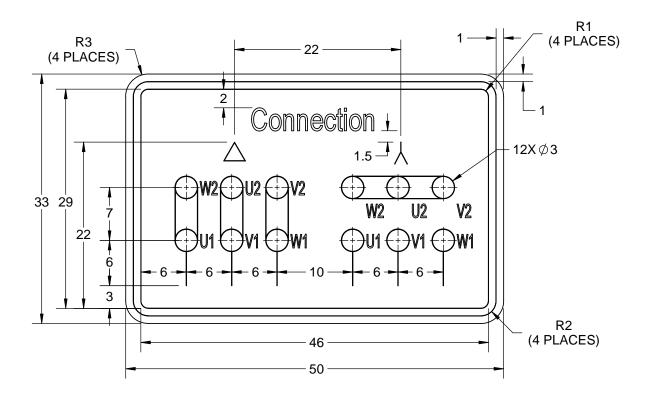
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DRAWING REVISION A	REVISION BY SN	DATE 13/01/2017
ECO-0116390	APPROVED BY SBD	DATE 13/01/2017
ECO DESCRIPTION		

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







Model No. TCA1P11A3113GACD01

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	1.1	1.5	2.2	2872	3.72	IE3		82.7	82.7	80	0.85	0.79	0.66	6.7	3.2	3.3

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	80M	
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	6204-2Z / 6204-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	20.0	kg
Gross weight - approx.	21.0	kg
Motor inertia	0.0016	kgm ²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from motor) 56	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	7/15	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	RHS	
Maximum cable size/conduit size 1R	x 3C x 10mm ² /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_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	-	-	IS 12615 : 2018	-	-	_

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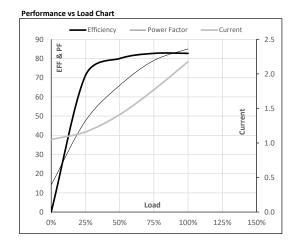




Model No. TCA1P11A3113GACD01

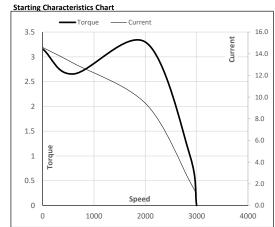
Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Υ	50	1.1	1.5	2.2	2872	0.38	3.72	IE3	50	S1	1000	0.0016	20

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 1.1 1.2 1.4 1.8 2.2 2.5 3.7 3.7 Torque Nm 0.0 1.2 2940 3000 2968 2908 2872 Speed r/min Efficiency % 0.0 71.1 80.0 82.7 82.7 Power Factor 14.1 47.5 66.0 79.0 85.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2014	2872	3000	
Current	Α	14.6	13.1	9.4	2.2	1.1	
Torque	pu	3.2	2.7	3.3	1	0	



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

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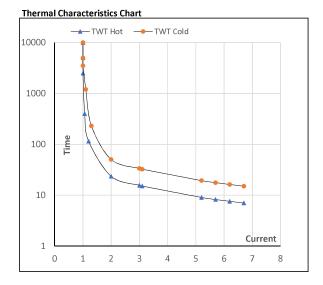




Model No. TCA1P11A3113GACD01

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	Υ	50	1.1	1.5	2.2	2872	0.38	3.72	IE3	50	S1	1000	0.0016	20.0

Motor Speed Torque Data LR Load FL s 10000 9 7 TWT Hot TWT Cold s 10000 34 25 20 18 15 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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