PRODUCT INFORMATION PACKET



Model No: TCA0032A3113GACD01 Catalog No: TCA0032A3113GACD01

Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 100L Frame, TEFC



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Nameplate Specifications

Phase	3	Output HP	4 Hp
Output KW	3.0 kW	Voltage	415 V
Speed	1453 rpm	Service Factor	1
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	87.7 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	5.6 A	Power Factor	0.85
Duty	S1	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	В3	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	R Side		
Connection Drawing	8442000085		

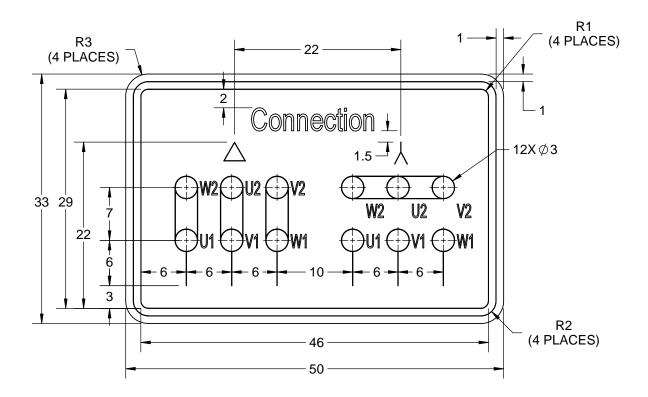
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DRAWING REVISION A	REVISION BY SN	DATE 13/01/2017
ECO-0116390	APPROVED BY SBD	DATE 13/01/2017
ECO DESCRIPTION		

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





TerraMAX[®]

Model No. TCA0032A3113GACD01

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	3	4.0	5.6	1453	19.61	IE3		87.7	87.7	87.4	0.85	0.8	0.69	7.3	2.5	2.9

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	
DE / NDE bearing	6206-2Z / 6206-2Z	
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.	44	kg
Gross weight - approx.	47	kg
Motor inertia	0.0145	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)	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

 $T_{\rm K}/T_{\rm N}$ - 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 combined 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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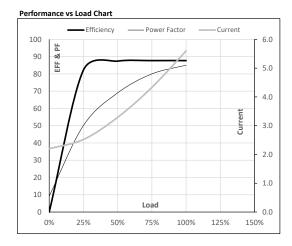




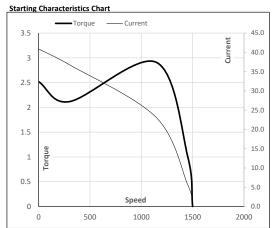
Model No. TCA0032A3113GACD01

(V) Conn [Hz] [kW] [hp] [A]	[RPM] [kgm]	[Nm]	CI.	loC1		a. 2a	
	[ILLIA] [KBIII]	[INIT]	Class	[°C]	[m]	[kg-m ²]	[kg]
TEFC 415 Y 50 3 4.0 5.6	1453 2.00	19.61	IE3	50 S1	1000	0.0145	44

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 2.2 2.5 3.3 4.3 5.6 14.6 19.6 Torque Nm 0.0 4.8 9.6 1478 1500 1489 1466 Speed r/min 1453 Efficiency % 0.0 82.2 87.4 87.7 87.7 Power Factor 9.2 50.1 69.0 80.0 85.0



Motor Speed Torque Data P-Up BD Rated NL Load Point 0 300 1146 1453 1500 Speed r/min Current Α 40.9 36.8 23.1 5.6 2.2 Torque 0 pu



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

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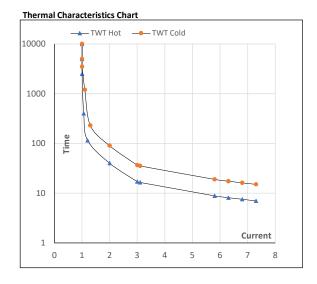




Model No. TCA0032A3113GACD01

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	Υ	50	3	4	5.6	1453	2.00	19.61	IE3	50	S1	1000	0.0145	44

Motor Spee	Motor Speed Torque Data												
Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR					
TWT Hot	S	10000	40	17	15	13	8	7					
TWT Cold	S	10000	90	37	30	25	18	15					
Current	pu	1	2	3	4	5	6	7.3					



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

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