## PRODUCT INFORMATION PACKET



Model No: TCA1P12A3133GACD01 Catalog No: TCA1P12A3133GACD01

Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 90S Frame, TEFC



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## Nameplate Specifications

Phase	3	Output HP	1.50 Hp
Output KW	1.1 kW	Voltage	415 V
Speed	1441 rpm	Service Factor	1
Frame	908	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	84.1 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	2.3 A	Power Factor	0.81
Duty	S1	Insulation Class	F
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
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	307 mm	Frame Length	128 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085		

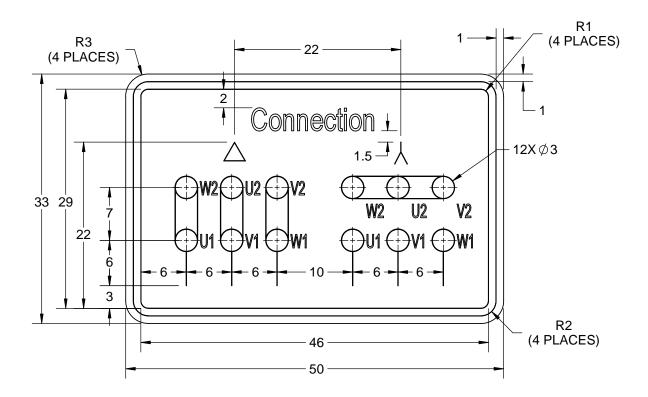
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DRAWING REVISION A	REVISION BY SN	DATE 13/01/2017
ECO-0116390	APPROVED BY SBD	DATE 13/01/2017
ECO DESCRIPTION		

### **NEW DRAWING RELEASE**

GEOM	ENTRIC TOLE	RANCE
	>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**<sup>®</sup>

#### Model No. TCA1P12A3133GACD01

U	Δ/Υ	f	Р	Р	I	n	Т	IE	%	EFF at _	_ load		PF	at lo	oad	$I_A/I_N$	$T_A/T_N$	$T_K/T_N$
(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	1441	7.42	IE3		84.1	84.1	81.3	0.81	0.74	0.6	6.2	2.5	2.9

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	90S	
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	S
DE / NDE bearing	6205-2Z / 6205-2Z	
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.	25.5	kg
Gross weight - approx.	26.5	kg
Motor inertia	0.0045	kgm <sup>2</sup>
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level ( 1meter distance from motor)	) 54	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	RHS	
Maximum cable size/conduit size 1R	x 3C x 10mm <sup>2</sup> /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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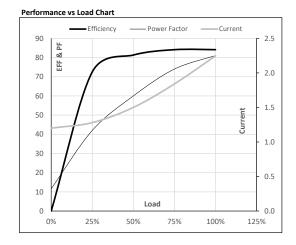




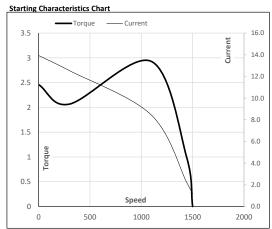
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Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	415	Υ	50	1.1	1.5	2.2	1441	0.76	7.42	IE3	50	S1	1000	0.0045	26
	125	•	50	2.2	1.5	2.2	22	0.70	7	123	50	-	1000	0.0015	20

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	1.2	1.3	1.5	1.8	2.2	
Torque	Nm	0.0	1.8	3.6	5.5	7.4	
Speed	r/min	1500	1486	1473	1458	1441	
Efficiency	%	0.0	72.5	81.3	84.1	84.1	
Power Factor	%	11.6	42.0	60.0	74.0	81.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 300 1096 1441 1500 Speed r/min 13.9 2.2 Current Α 12.5 8.5 1.2 Torque pu



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

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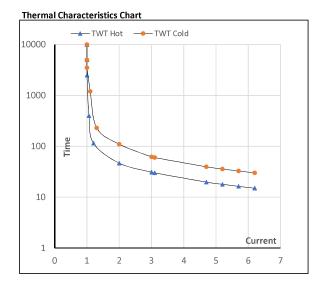




#### Model No. TCA1P12A3133GACD01

(V) Conn [Hz] [kW] [hp] [A] [rpm] [kgm] [Nm] Class [°C]	[00]	r. 2, r. ,
(1) 00 [1.2] [1.1] [1.6] [1.] [1.6] [1.6] [1.6] [1.6]	[°C] [m]	[kg-m²] [kg]
TEFC 415 Y 50 1.1 1.5 2.2 1441 0.76 7.42 IE3 50	50 S1 1000	0.0045 25.5

#### Motor Speed Torque Data LR Load FL s 10000 47 15 TWT Hot TWT Cold s 10000 110 62 50 38 34 30 Current 1 3 5 5.5 6.2 pu



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

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