PRODUCT INFORMATION PACKET



Model No: TCA1P11A3133GACD01 Catalog No: TCA1P11A3133GACD01

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



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Nameplate Specifications

Phase	3	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 °C	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	B35	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		

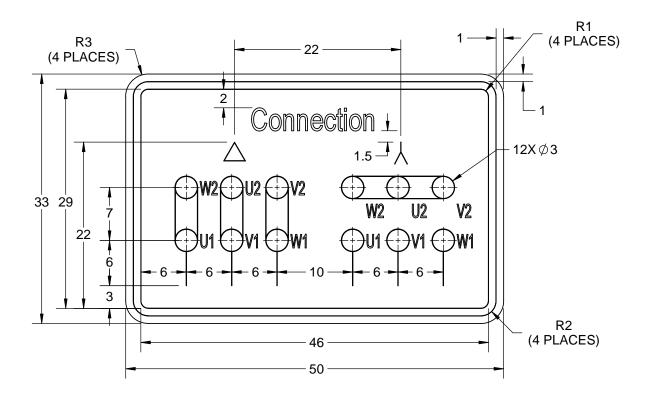
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DRAWING REVISION A	REVISION BY SN	DATE 13/01/2017
ECO-0116390	APPROVED BY SBD	DATE 13/01/2017
ECO DESCRIPTION		

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





TerraMAX[®]

Model No. TCA1P11A3133GACD01

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 B35	
Cooling method	IC 411	
Motor weight - approx.	21.2	kg
Gross weight - approx.	22.2	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 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_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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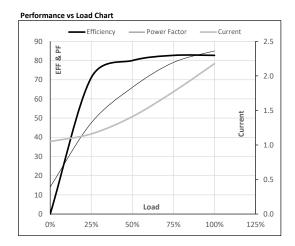




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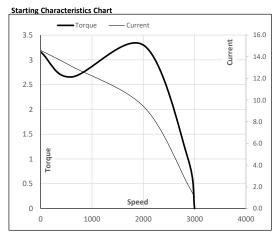
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Υ	50	1.1	1.5	2.2	2872	0.38	3.72	IE3	50	S1	1000	0.0016	21
		•								.==				5.0020	

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	1.1	1.2	1.4	1.8	2.2	
Torque	Nm	0.0	1.2	2.5	3.7	3.7	
Speed	r/min	3000	2968	2940	2908	2872	
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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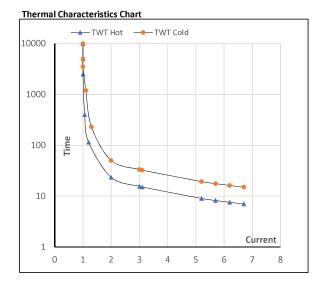




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Enclosure	U	Δ/Y	f	Р	Р	I	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	415	Υ	50	1.1	1.5	2.2	2872	0.38	3.72	IE3	50	S1	1000	0.0016	21.2

Motor Speed Torque Data								
Load		FL	l ₁	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	S	10000	24	15	12	9	8	7
TWT Cold	s	10000	50	34	25	20	18	15
Current	pu	1	2	3	4	5	5.5	6.7



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

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