PRODUCT INFORMATION PACKET



Model No: TCA1101A3141GACD01 Catalog No: TCA1101A3141GACD01 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 415 V, 315S Frame





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Nameplate Specifications

3	Output HP	150 Hp		
110.0 kW	Voltage	415 V		
2984 r/min	Service Factor	1		
315S	Enclosure	Totally Enclosed Fan Cooled		
No Protection	Efficiency	95.2 %		
50 °C	Frequency	50 Hz		
180.6 A	Power Factor	0.89		
S1	Insulation Class	F		
6316	Opp Drive End Bearing Size	6316		
No	CSA	No		
Yes	IP Code	55		
1	Efficiency Class	IE3		
	110.0 kW 2984 r/min 315S No Protection 50 °C 180.6 A S1 6316 No	110.0 kW Voltage 2984 r/min Service Factor 315S Enclosure No Protection Efficiency 50 °C Frequency 180.6 A Power Factor S1 Insulation Class 6316 Opp Drive End Bearing Size No CSA Yes IP Code		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1311 mm	Frame Length	729 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500889

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

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. TCA1101A3141GACD01

U	Δ/Υ	f	Р	Р	1	n	T	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	110	150	180.6	2984	358.02	IE3		95.2	95.2	92.8	0.89	0.86	0.79	7.3	2.1	3.7

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	315S	
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 resista	nce) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	n NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball bearing	
DE / NDE bearing	6316 C3 / 6316 C3	
Lubrication method	Regreasable	
Type of grease	Shell Gadus S5 V100 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM V1	
Cooling method	IC 411	
Motor weight - approx.	1038	kg
Gross weight - approx.	1083	kg
Motor inertia	2.4236	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from motor)	83	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 1R x	3C x 240mm²/2 x M63 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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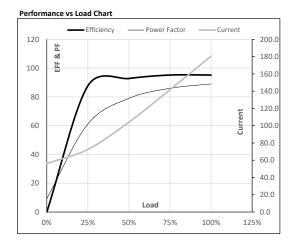




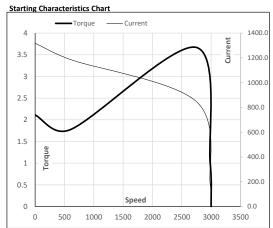
Model No. TCA1101A3141GACD01

Enclosure	U	Δ / Y	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 ²]	[kg]
TEFC	415	Δ	50	110	150.0	180.6	2984	36.51	358.02	IE3	50	S1	1000	2.4236	1038

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 56.2 72.5 104.1 141.7 180.6 358.0 Torque Nm 0.0 89.1 178.5 268.1 2988 Speed r/min 3000 2996 2992 2984 Efficiency % 0.0 87.7 92.8 95.2 95.2 Power Factor 61.2 79.0 9.3 86.0 89.0



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 600 2745 2984 3000 0 Speed r/min Current Α 1318.5 1186.7 848.6 180.6 56.2 Torque pu



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

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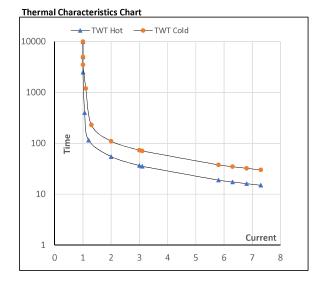




Model No. TCA1101A3141GACD01

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	Δ	50	110	150	180.6	2984	36.48	358.02	IE3	50	S1	1000	2.4236	1038

Motor Speed Torque Data LR Load FL s 10000 55 15 TWT Hot 25 TWT Cold s 10000 110 73 60 45 40 30 Current 1 3 5 5.5 7.3 pu



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

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