PRODUCT INFORMATION PACKET



Model No: TCA1321A3111GACD01 Catalog No: TCA1321A3111GACD01 TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 415 V, 315M Frame



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Nameplate Specifications

Phase	3	Output HP	175 Hp		
Output KW	132.0 kW	Voltage	415 V		
Speed	2984 r/min	Service Factor	1		
Frame	315M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	95.4 %		
Ambient Temperature	50 °C	Frequency	50 Hz		
Current	216.3 A	Power Factor	0.89		
Duty	S1	Insulation Class	F		
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6316		
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	В3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1176 mm	Frame Length	729 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500878	Connection Drawing	8442000085

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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

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



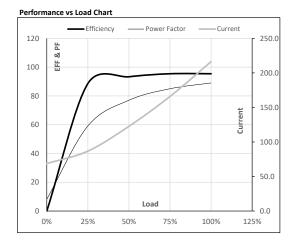




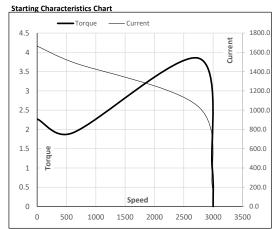
Model No. TCA1321A3111GACD01

Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	T	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	132	175.0	216.3	2984	42.58	417.55	IE3	50	S1	1000	2.5544	1063.9

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	68.7	86.7	122.7	165.9	216.3	
Torque	Nm	0.0	104.0	208.2	312.7	417.6	
Speed	r/min	3000	2996	2992	2988	2984	
Efficiency	%	0.0	88.6	93.3	95.4	95.4	
Power Factor	%	8.2	59.1	77.0	85.0	89.0	



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 600 2745 2984 3000 Speed r/min Current Α 1665.4 1498.9 1037.9 216.3 68.7 Torque pu



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

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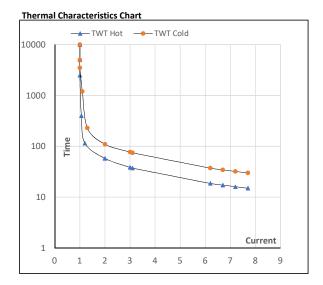




Model No. TCA1321A3111GACD01

E	nclosure	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	132	175	216.3	2984	42.55	417.55	IE3	50	S1	1000	2.5544	1064

Motor Speed Torque Data LR Load FL 15 TWT Hot s 10000 25 TWT Cold s 10000 110 77 60 45 40 30 Current 3 5.5 7.7 pu



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

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