# PRODUCT INFORMATION PACKET



Model No: TCA3151A3121GACD01 Catalog No: TCA3151A3121GACD01 TerraMAX® Cast Iron Motor, 425 HP, 3 Ph, 50 Hz, 415 V, 355L Frame



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## Nameplate Specifications

Phase	3	Output HP	425 Hp		
Output KW	315.0 kW	Voltage	415 V		
Speed	2985 r/min	Service Factor	1		
Frame	355L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	95.8 %		
Ambient Temperature	50 °C	Frequency	50 Hz		
Current	514.0 A	Power Factor	0.89		
Duty	S1	Insulation Class	F		
Drive End Bearing Size	6317	Opp Drive End Bearing Size	6317		
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	B5	Motor Orientation	Horizontal		
Drive End Bearing	СЗ	Opp Drive End Bearing	C3		
Frame Material	Cast Iron	Shaft Type	Keyed		
Overall Length	1512 mm	Frame Length	1010 mm		
Shaft Diameter	75 mm	Shaft Extension	140 mm		
Assembly/Box Mounting	Тор				
Connection Drawing	8442000085	Outline Drawing	0235501826		

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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



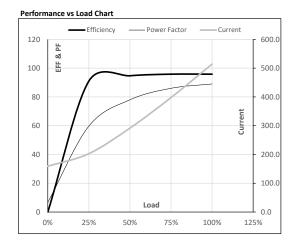




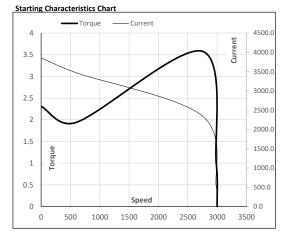
### Model No. TCA3151A3121GACD01

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	Δ	50	315	425.0	514.0	2985	103.39	1013.95	IE3	50	S1	1000	4.7428	1853

Motor Load D	Motor Load Data														
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL								
Current	Α	159.0	202.9	291.6	397.7	514.0									
Torque	Nm	0.0	252.5	505.7	759.5	1013.9									
Speed	r/min	3000	2996	2993	2989	2985									
Efficiency	%	0.0	91.0	94.7	95.8	95.8									
Power Factor	%	6.6	59.7	78.0	86.0	89.0									



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 0 600 2746 2985 3000 Speed r/min Α Current 3855.0 3469.5 2353.1 514.0 159.0 Torque pu



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

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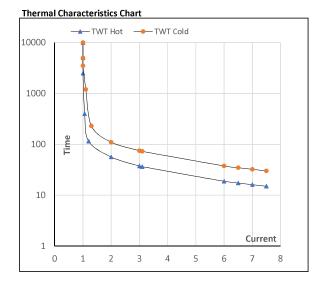




#### Model No. TCA3151A3121GACD01

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-m <sup>2</sup> ]	[kg]
TEFC	415	Δ	50	315	425	514.0	2985	103.32	1013.95	IE3	50	S1	1000	4.7428	1853

#### Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot 25 20 TWT Cold s 10000 110 75 60 45 40 30 Current 1 3 5 5.5 7.5 pu



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

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