PRODUCT INFORMATION PACKET



Model No: TCA0114A1121GAC010
Catalog No: TCA0114A1121GAC010
TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 180L Frame, TEFC



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Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	24.6 A	Speed	730 rpm
Service Factor	1	Phase	3
Efficiency	88.6 %	Power Factor	0.73
Duty	S 1	Insulation Class	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
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	8	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	750 mm	Frame Length	366 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0218000504	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

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







Model No. TCA0114A1121GAC010

U	Δ/Υ	f	Р	Р	ı	n	Т	IE	9	6 EFF a	t load	i	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]
400	Δ	50	11	15	24.5	730	146.51	IE3	-	88.6	88.6	89.5	0.73	0.66	0.53	6.5	1.8	3.0

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	180L	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistance)	80 [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	
DE / NDE bearing	6311-2Z / 6211-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	239	kg
Gross weight - approx.	259	kg
Motor inertia	0.3337	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mo	tor) 60	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	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size	1R x 3C x 35mm²/2 X M32 x 1.5	
Auxiliary terminal box	NA	

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

 $\ensuremath{^{*}}$ 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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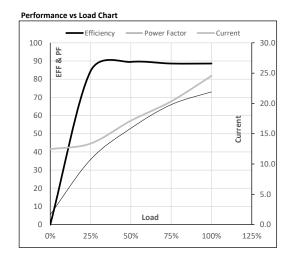




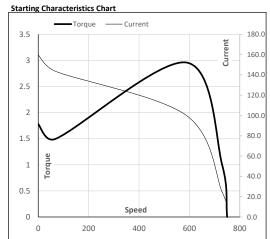
Model No. TCA0114A1121GAC010

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	400	Δ	50	11	15.0	24.5	730	14.94	146.51	IE3	40	S1	1000	0.3337	239

Motor Load Data Load Point 1/4FL 1/2FL 3/4FL FL 5/4FL Current 12.5 13.4 17.2 20.3 24.5 Α Torque Nm 0.0 35.9 72.2 109.1 146.5 Speed r/min 750 745 741 736 730 Efficiency % 0.0 84.4 89.5 88.6 88.6 Power Factor 5.5 35.8 53.0 66.0 73.0



Motor Speed	Torque Dat	a					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	68	588	730	750	
Current	Α	159.6	143.6	100.1	24.5	12.5	
Torque	pu	1.8	1.5	3.0	1	0	



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

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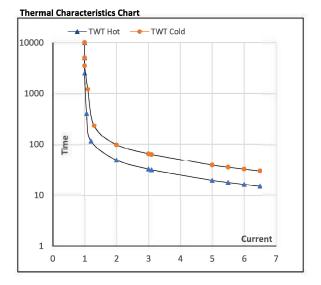




Model No. TCA0114A1121GAC010

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 ²]	[kg]
TEFC	400	Δ	50	11	15.0	24.5	730	14.94	146.51	IE3	40	S1	1000	0.3337	239

Motor Spee	d Torq	Motor Speed Torque Data											
Load		FL	l ₁	l ₂	l ₃	l ₄	I ₅	LR					
TWT Hot	s	10000	49	33	24	20	18	15					
TWT Cold	s	10000	98	65	57	39	36	30					
Current	pu	1	2	3	4	5	5.5	6.5					



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

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