PRODUCT INFORMATION PACKET



Model No: TCA5P53A3113GACD01 Catalog No: TCA5P53A3113GACD01

Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 132M Frame, TEFC



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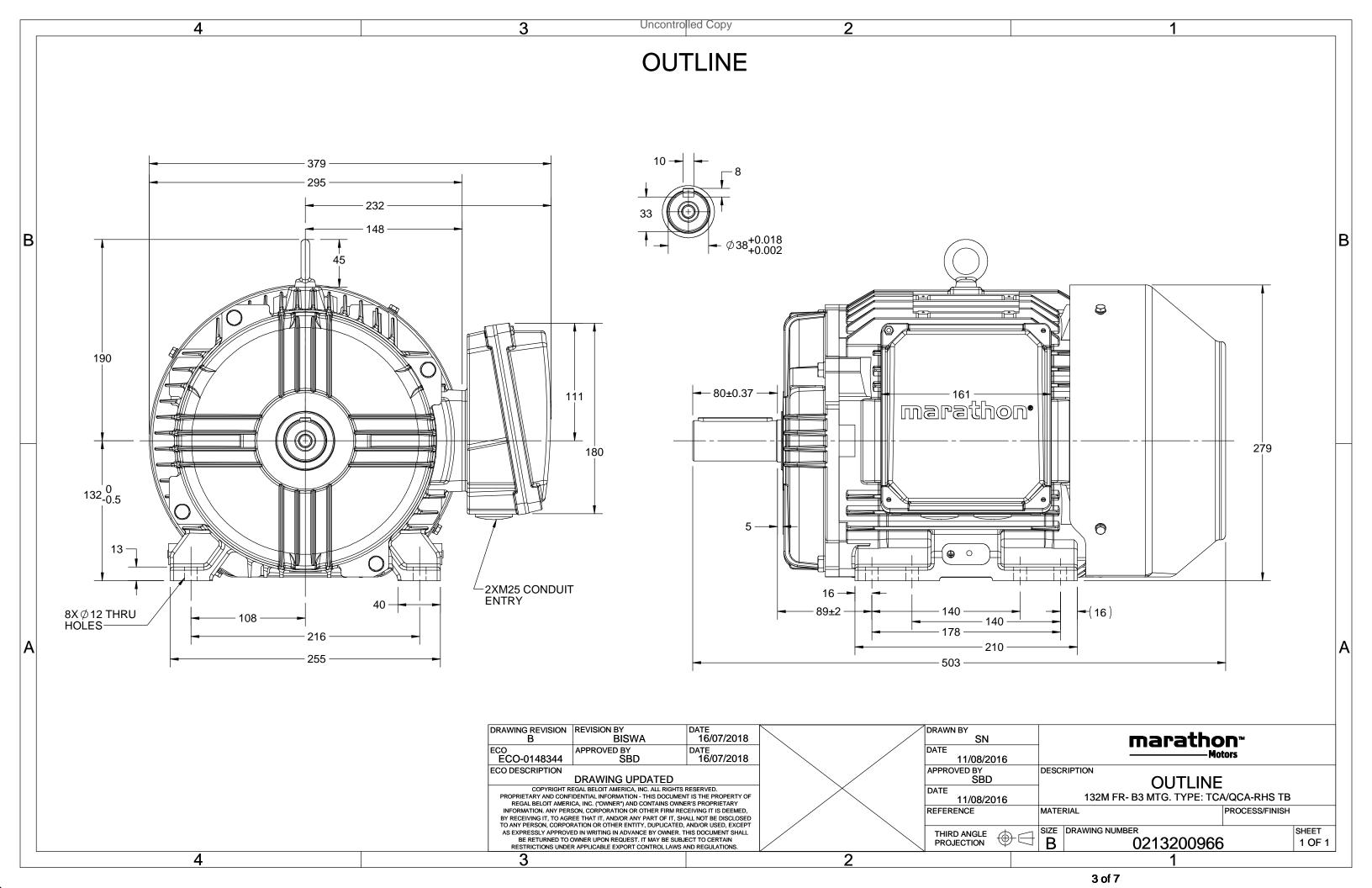
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	415 V
Current	11.4 A	Speed	975 rpm
Service Factor	1	Phase	3
Efficiency	88 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
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	6	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0213200966

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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. TCA5P53A3113GACD01

U	Δ/Υ	f	Р	Р	- 1	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	Δ	50	5.5	7.5	11.4	975	54.87	IE3	-	88	88	8.88	0.76	0.69	0.55	6.2	2.3	2.7

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	132M	
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	6308-2Z / 6208-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of p	rotection	IP 55	
Mounting ty	/pe	IM B3	
Cooling met	thod	IC 411	
Motor weig	ht - approx.	92	kg
Gross weigh	nt - approx.	95	kg
Motor inert	ia	0.0744	kgm ²
Load inertia	I	Customer to Provide	
Vibration le	vel	1.6	mm/s
Noise level	(1meter distance from mo	otor) 59	dB(A)
No. of starts	s hot/cold/Equally spread	2/3/4	
Starting me	thod	DOL	
Type of cou	pling	Direct	
LR withstan	d time (hot/cold)	15/30	S
Direction of	rotation	Bi-directional	
Standard ro	tation	Clockwise form DE	
Paint shade		RAL 5014	
Accessories			
Acce	essory - 1	-	
Acce	essory - 2	-	
Acce	essory - 3	-	
Terminal bo	x position	RHS	
Maximum c	able size/conduit size	1R x 3C x 16mm²/2 x M25 x 1.5	
Auxiliary ter	rminal 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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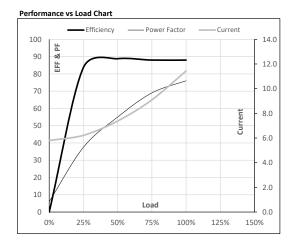




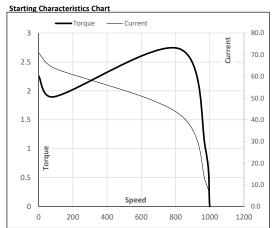
Model No. TCA5P53A3113GACD01

(V) Conn [Hz] [kW] [hp] [[A] [RPM]	Densel (North				2-	
(*) ***********************************	[A] [KPIVI]	[kgm] [Nm]	Class	[°C]	[m]	[kg-m ²]	[kg]
TEFC 415 Δ 50 5.5 7.5 1:	11.4 975	5.60 54.87	IE3	50 S1	1000	0.0744	92

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 5.8 6.2 7.4 9.1 11.4 27.1 40.9 Torque Nm 0.0 13.5 54.9 1000 Speed r/min 994 988 982 975 Efficiency % 0.0 83.7 88.8 88.0 88.0 Power Factor 6.0 37.5 55.0 69.0 76.0



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 91 821 975 1000 0 Speed r/min Current Α 70.9 63.8 42.7 11.4 5.8 Torque 0 pu



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

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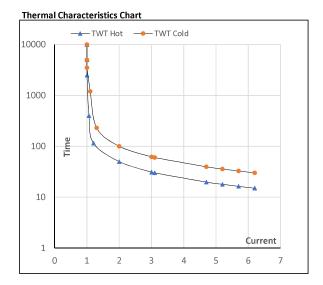




Model No. TCA5P53A3113GACD01

Enclosure	U	Δ/Y	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	415	Δ	50	5.5	7.5	11.4	975	5.59	54.87	IE3	50	S1	1000	0.0744	92

Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot TWT Cold s 10000 100 62 55 37 34 30 Current 1 3 5 5.5 6.2 pu



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

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