PRODUCT INFORMATION PACKET



Model No: TCA0033A3113GACD01 Catalog No: TCA0033A3113GACD01

Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 132S Frame, TEFC



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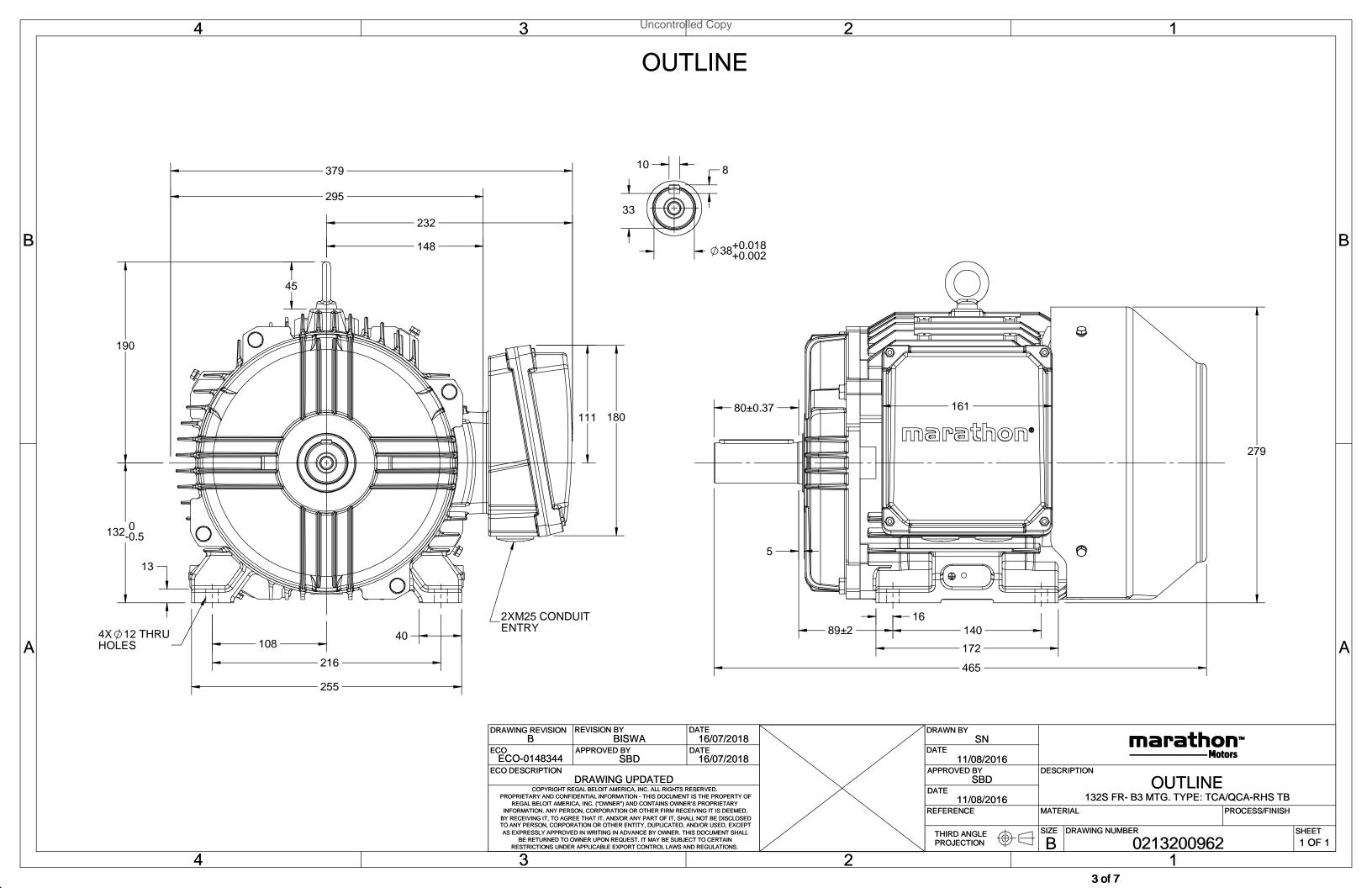
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW		
Frequency	50 Hz	Voltage	415 V		
Current	6.8 A	Speed	973 rpm		
Service Factor	1	Phase	3		
Efficiency	85.6 %	Power Factor	0.72		
Duty	S1	Insulation Class	F		
Frame	1328	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	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0213200962

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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. TCA0033A3113GACD01

U	Δ/Υ	f	Р	Р	I	n	Т	IE	% EFF at load			PF at load			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	Υ	50	3	4.0	6.8	973	29.35	IE3		85.6	85.6	84	0.72	0.63	0.48	5.4	2.0	2.5

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

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	67	kg
Gross weight - approx.	70	kg
Motor inertia	0.0390	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from mot	or) 59	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	RHS	
Maximum cable size/conduit size	1R x 3C x 16mm ² /2 x M25 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_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 $\,$

* 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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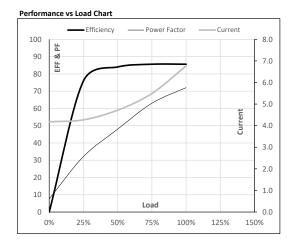




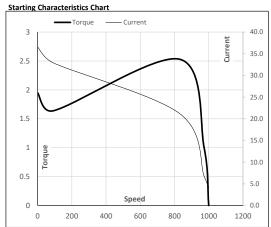
Model No. TCA0033A3113GACD01

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 ²]	[kg]
TEFC	415	Υ	50	3	4.0	6.8	973	2.99	29.35	IE3	50	S1	1000	0.039	67

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 4.2 4.3 4.7 5.5 6.8 14.5 21.8 Torque Nm 0.0 7.2 29.4 1000 Speed r/min 993 987 980 973 Efficiency % 0.0 75.9 84.0 85.6 85.6 Power Factor 7.6 48.0 63.0 32.1 72.0



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 91 830 973 1000 0 Speed r/min Current Α 36.6 32.9 21.2 6.8 4.2 Torque 0 pu



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

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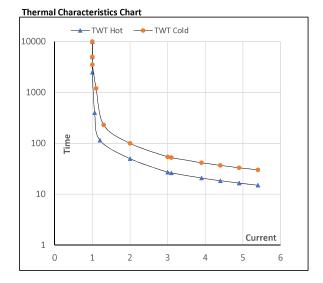




Model No. TCA0033A3113GACD01

Enclosure	U	Δ/Υ	f	Р	Р	ı	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	Υ	50	3	4.0	6.8	973	2.99	29.35	IE3	50	S1	1000	0.0390	67

Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot 20 TWT Cold s 10000 100 41 36 33 30 Current 1 3 4.5 5 5.4 pu



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

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