PRODUCT INFORMATION PACKET



Model No: TCA0111A3113GACD01
Catalog No: TCA0111A3113GACD01

Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 415 V, 3000 RPM, 160M Frame, TEFC



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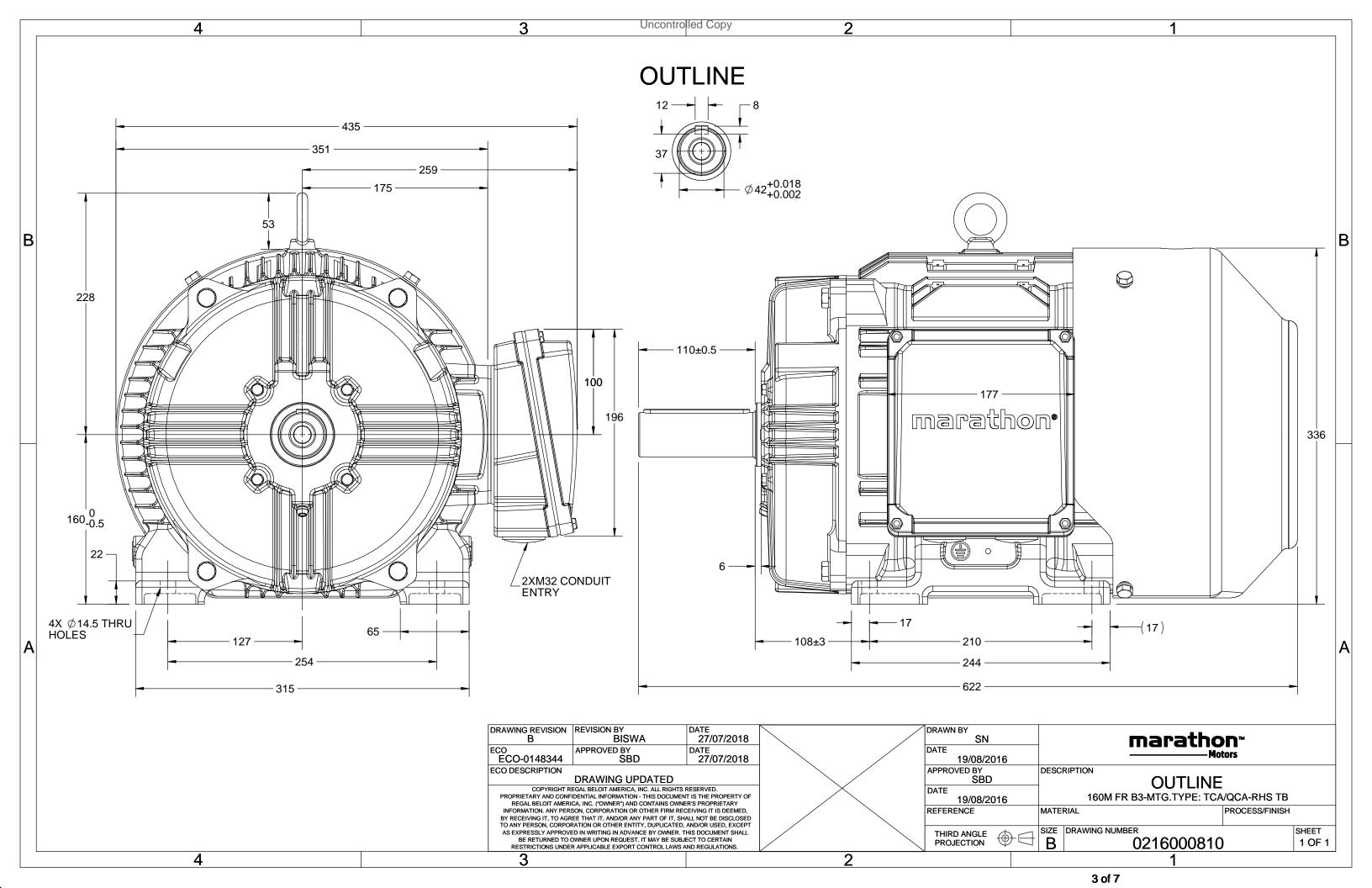
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW		
Frequency	50 Hz	Voltage	415 V		
Current	18.9 A	Speed	2953 rpm		
Service Factor	1	Phase	3		
Efficiency	91.2 %	Power Factor	0.89		
Duty	S1	Insulation Class	F		
Frame	160M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	50 °C		
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209		
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	2z-C3	Opp Drive End Bearing	2z-C3		
Frame Material	Cast Iron	Shaft Type	Keyed		
Overall Length	622 mm	Frame Length	254 mm		
Shaft Diameter	42 mm	Shaft Extension	110 mm		
Assembly/Box Mounting	R Side				
Outline Drawing	0216000810	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. TCA0111A3113GACD01

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	11	15	18.9	2953	36.17	IE3		91.2	91.2	89.7	0.89	0.85	0.76	7.6	2.2	3.5

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	160M	
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	6309-2Z / 6209-2Z	
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.	135	kg
Gross weight - approx.	155	kg
Motor inertia	0.0626	kgm²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from motor)	71	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	10/20	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 35mm ² /2 X M32 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

 $T_{\rm K}/T_{\rm N}$ - 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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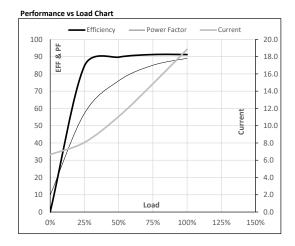




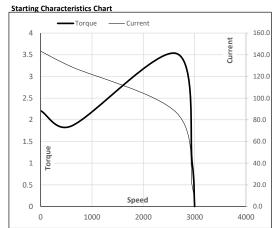
Model No. TCA0111A3113GACD01

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	415	Δ	50	11	15.0	18.9	2953	3.69	36.17	IE3	50	S1	1000	0.0626	135

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 6.7 11.1 14.9 18.9 8.1 Torque Nm 0.0 8.9 17.9 27.0 36.2 Speed r/min 3000 2988 2977 2965 2953 Efficiency % 0.0 84.6 89.7 91.2 91.2 Power Factor 9.8 57.1 76.0 85.0 89.0



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 600 2643 2953 3000 0 Speed r/min Current Α 143.3 129.0 86.7 18.9 6.7 Torque 0 pu



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

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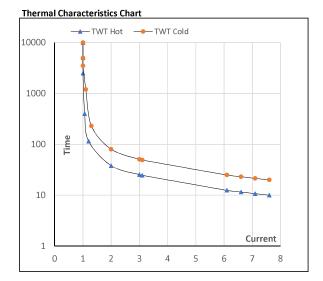




Model No. TCA0111A3113GACD01

Enclosure	U	Δ/Y	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	11	15	18.9	2953	3.69	36.17	IE3	50	S1	1000	0.0626	135

Motor Speed Torque Data LR Load FL s 10000 TWT Hot 20 10 TWT Cold s 10000 51 44 36 29 20 Current 1 3 5 5.5 7.6 pu



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

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