PRODUCT INFORMATION PACKET

Model No: QCA0113A1113GAA001 Catalog No: QCA0113A1113GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 160L Frame, TEFC



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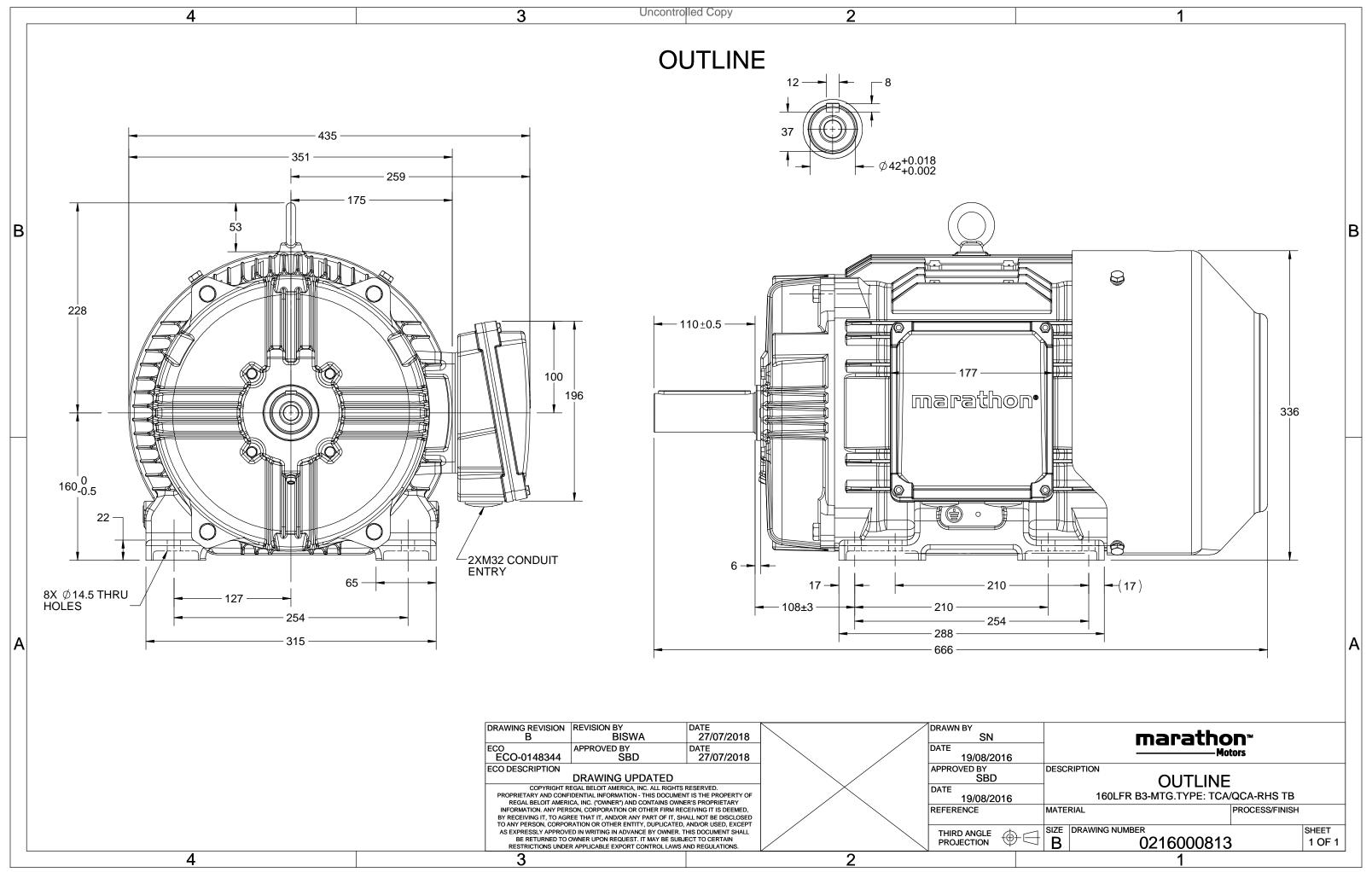
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	22.9 A	Speed	984 rpm
Service Factor	1	Phase	3
Efficiency	92.3 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	No	CSA	Νο
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	666 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0216000813	Connection Drawing	8442000085

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Model No. QCA0113A1113GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	at loa	d	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(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	22.6	984	108.63	IE4	-	92.3	92.3	89.7	0.76	0.67	0.53	7.7	3.1	3.5

Motor type	QCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	160L		Motor weight - approx.	190	kg
Duty	S1		Gross weight - approx.	210	kg
Voltage variation *	± 10%		Motor inertia	0.2398	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.2	mm/s
Design	Ν		Noise level (1meter distance from moto	r) 61	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance)	80 [Class B]	к	LR withstand time (hot/cold)	15/30	S
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	PTC 150°C	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6309-2Z / 6209-2Z		Terminal box position	RHS	
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 35mm²/2 X M32 x 1.5	
Type of grease	NA		Auxiliary terminal box	NA	

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - 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 combined variation are as per IEC60034-1

Technical da	ta are subject to char	ige. There may be slight v	ariations between calculated	values in this datashe	et and the motor name	plate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:20	- 004	IEC:60034-30-1

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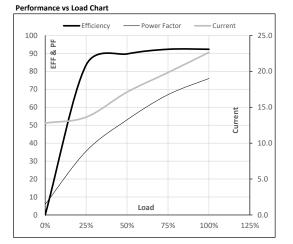


Model No. QCA0113A1113GAA001

Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	22.6	984	11.08	108.63	IE4	40	S1	1000	0.2398	190

Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	12.8	13.6	17.1	19.8	22.6	
Nm	0.0	26.8	53.9	81.1	108.6	
r/min	1000	996	992	988	984	
%	0.0	83.5	89.7	92.3	92.3	
%	5.9	35.5	53.0	67.0	76.0	
	Nm /min %	Nm 0.0 /min 1000 % 0.0	Nm 0.0 26.8 /min 1000 996 % 0.0 83.5	Nm 0.0 26.8 53.9 /min 1000 996 992 % 0.0 83.5 89.7	Nm 0.0 26.8 53.9 81.1 /min 1000 996 992 988 % 0.0 83.5 89.7 92.3	Nm 0.0 26.8 53.9 81.1 108.6 /min 1000 996 992 988 984 % 0.0 83.5 89.7 92.3 92.3



Motor Spee	ed Torque Da	ta					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	866	984	1000	
Current	А	174.3	156.9	99.4	22.6	12.8	

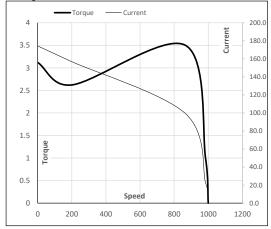
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0

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Torque pu 3.1 2.6





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

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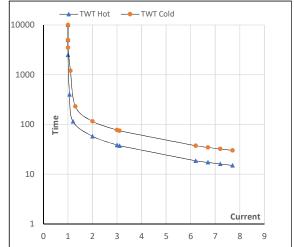
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	22.6	984	11.08	108.63	IE4	40	S1	1000	0.2398	190

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	58	39	30	25	20	15
TWT Cold	s	10000	116	77	60	45	40	30
Current	pu	1	2	3	4	5	5.5	7.7

Thermal Characteristics Chart



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

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