PRODUCT INFORMATION PACKET

Model No: QCA0112AF133GAA001 Catalog No: QCA0112AF133GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 160M Frame, TEFC



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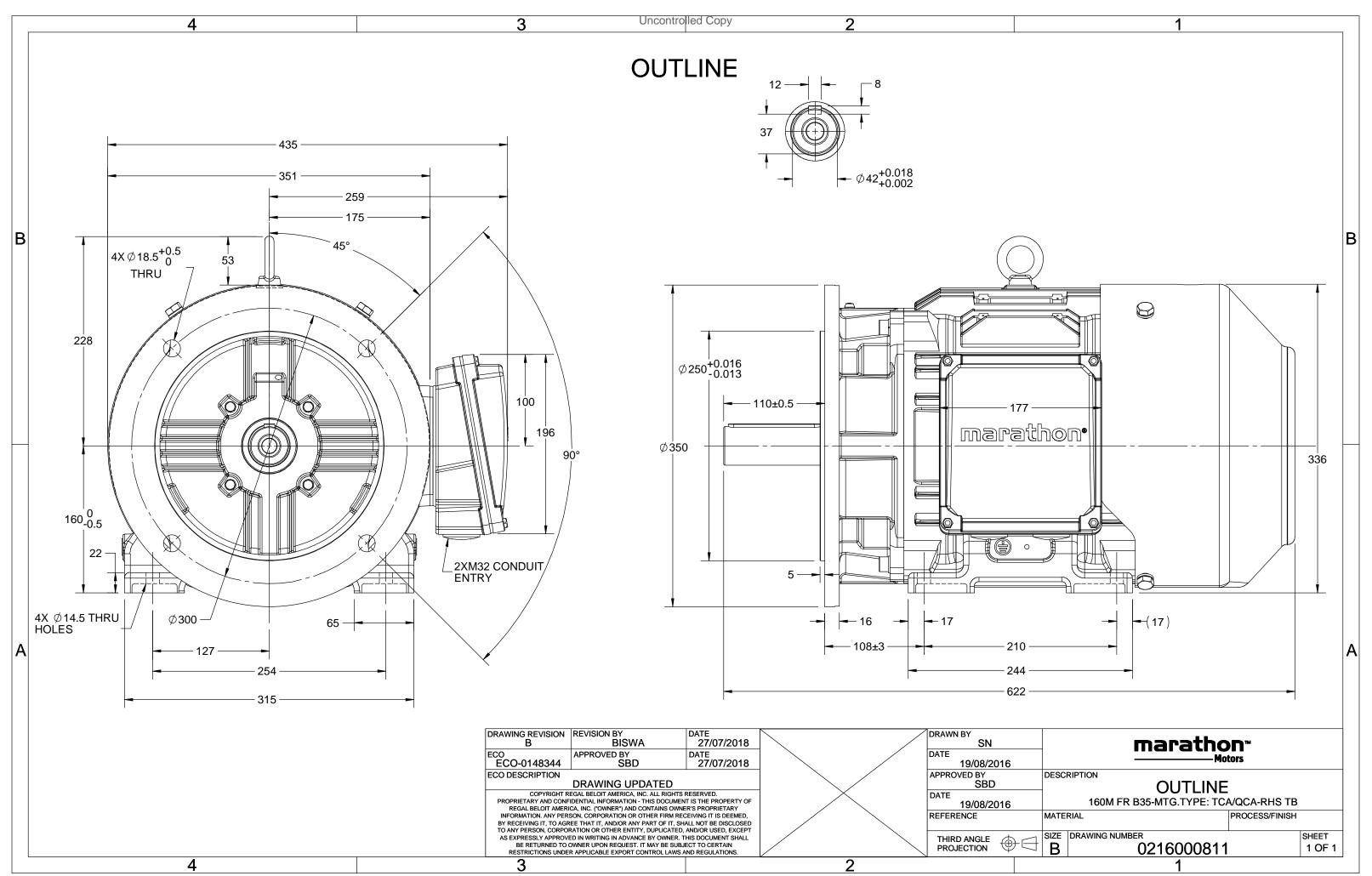
Nameplate Specifications

Output HP	15 Нр	Output KW	11.0 kW
Frequency	50 Hz	Voltage	380 V
Current	22.5 A	Speed	1479 rpm
Service Factor	1	Phase	3
Efficiency	93.3 %	Power Factor	0.8
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
	No Protection 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209
Thermal Protection		<u>_</u>	
Thermal Protection Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	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	0216000811	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE	ġ	% EFF a	t load	ł	PI	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]
380	Δ	50	11	15	22.4	1479	72.22	IE4	-	93.3	93.3	91.2	0.8	0.73	0.59	8.2	3.1	4.0
Motor	type				QCA				Deg	ree of	protecti	on				IP 55		

Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	160M		Motor weight - approx.	164	kg
Duty	S1		Gross weight - approx.	184	kg
Voltage variation *	± 10%		Motor inertia	0.1331	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	or) 64	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	LR x 3C x 35mm²/2 X M32 x 1.5	
Type of grease	NA		Auxiliary terminal box	NA	

 I_A/I_N - Locked Rotor Current / Rated Current $T_{\text{A}}/T_{\text{N}}$ - 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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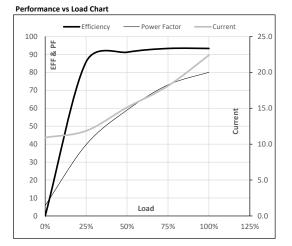


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Enclosure	U	Δ / Y	f	Р	Р	I.	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	11	15	22.4	1479	7.36	72.22	IE4	40	S1	1000	0.1331	164

Motor Load Data

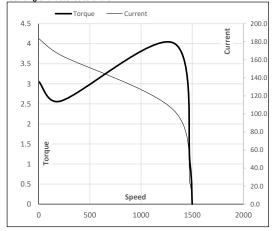
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	10.9	11.9	15.1	18.1	22.4	
Nm	0.0	17.9	35.9	54.0	72.2	
r/min	1500	1495	1490	1485	1479	
%	0.0	85.8	91.2	93.3	93.3	
%	5.8	39.7	59.0	73.0	80.0	
	Nm r/min %	A 10.9 Nm 0.0 r/min 1500 % 0.0	A 10.9 11.9 Nm 0.0 17.9 r/min 1500 1495 % 0.0 85.8	A 10.9 11.9 15.1 Nm 0.0 17.9 35.9 r/min 1500 1495 1490 % 0.0 85.8 91.2	A 10.9 11.9 15.1 18.1 Nm 0.0 17.9 35.9 54.0 r/min 1500 1495 1490 1485 % 0.0 85.8 91.2 93.3	A 10.9 11.9 15.1 18.1 22.4 Nm 0.0 17.9 35.9 54.0 72.2 r/min 1500 1495 1490 1485 1479 % 0.0 85.8 91.2 93.3 93.3



Motor Speed Torque Data

Motor Speed	i ioique bu	u					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1318	1479	1500	
Current	А	183.6	165.2	104.3	22.4	10.9	
Torque	pu	3.1	2.6	4.0	1	0	

Starting Characteristics Chart



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

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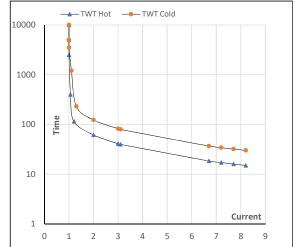
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	11	15	22.4	1479	7.36	72.22	IE4	40	S1	1000	0.1331	164

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	62	41	30	25	20	15
TWT Cold	s	10000	123	82	60	50	39	30
Current	pu	1	2	3	4	5	5.5	8.2

Thermal Characteristics Chart



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

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