## **PRODUCT INFORMATION PACKET**

Model No: QCA0114AF133GAA001 Catalog No: QCA0114AF133GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 180L Frame, TEFC



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Motors





Product Information Packet: Model No: QCA0114AF133GAA001, Catalog No:QCA0114AF133GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 180L Frame, TEFC

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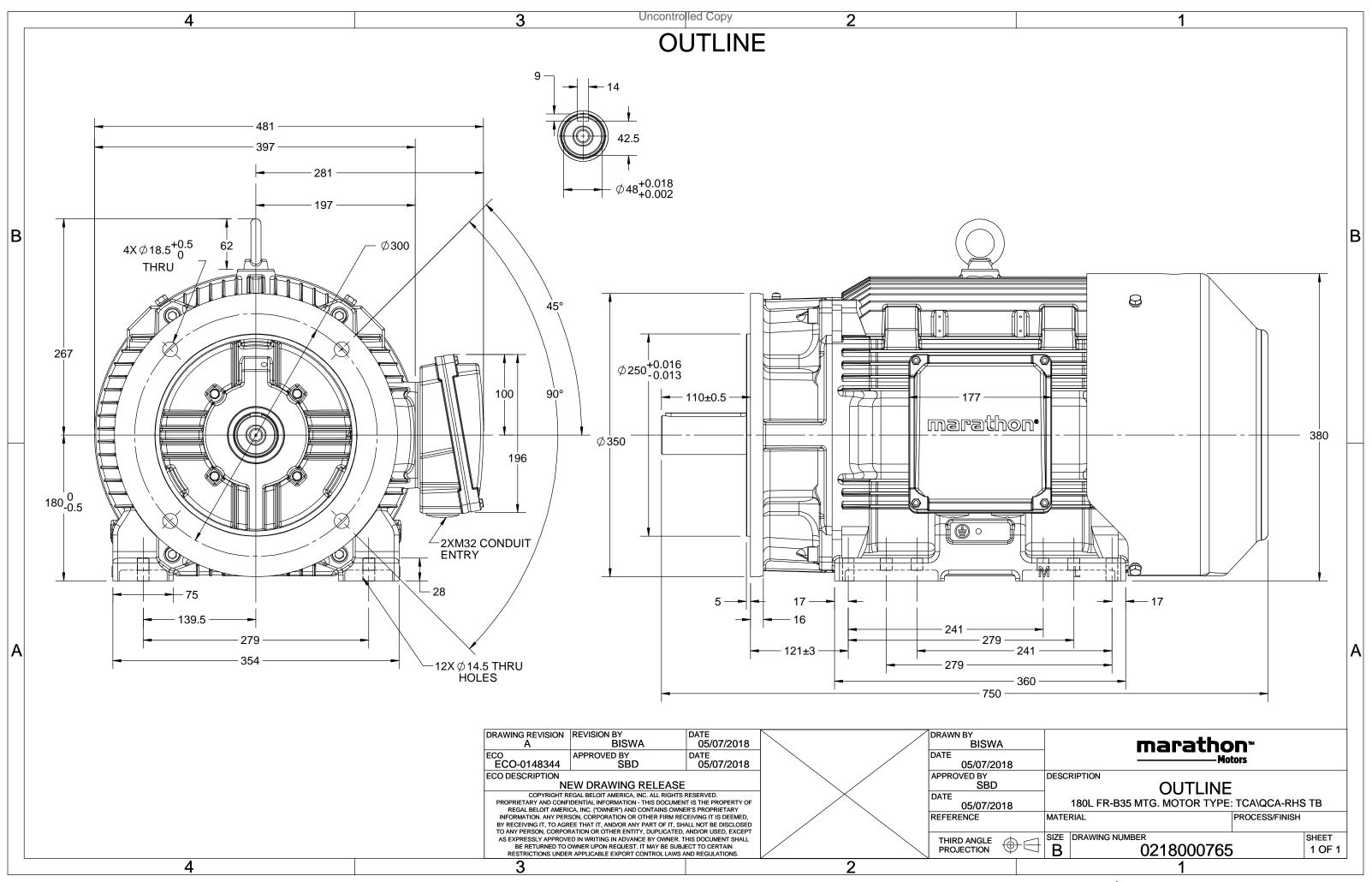
### Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	380 V
Current	26.1 A	Speed	732 rpm
Service Factor	1	Phase	3
Efficiency	90.4 %	Power Factor	0.71
Duty	S1	Insulation Class	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
	1002		,, _,, _
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6311	Ambient Temperature Opp Drive End Bearing Size	40 °C 6211

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	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	750 mm	Frame Length	366 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0218000765	Connection Drawing	8442000085

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													-			-		
U	$\Delta / Y$	f	Р	Р	1	n	Т	IE	9	% EFF a	t load	ł	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]
380	Δ	50	11	15	26.0	732	146.18	IE4	-	90.4	90.4	89.1	0.71	0.64	0.5	7	2.0	3.3
Motor	type				QCA				Deg	gree of	protecti	on				IP 55		
e 1					TEEC													

Enclosure				IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	180L		Motor weight - approx.	238	kg
Duty	S1		Gross weight - approx.	258	kg
Voltage variation *	± 10%		Motor inertia	0.3337	kgm <sup>2</sup>
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) 60	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	<b>Bi-directional</b>	
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	6311-2Z / 6211-2Z		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

 $T_{\rm K}/T_{\rm N}$  - Breakdown Torque / Rated Torque

 $T_{\text{A}}/T_{\text{N}}$  - Locked Rotor 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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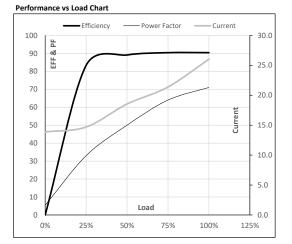


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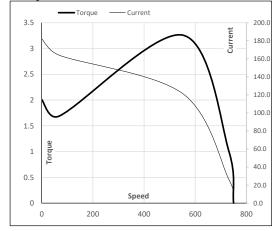
		Elevation	Duty	Amb	IE	Т	Т	n	1	Р	Р	f	$\Delta / Y$	U	Enclosure
[kg]	[kg-m <sup>2</sup> ]	[m]		[°C]	Class	[Nm]	[kgm]	[RPM]	[A]	[hp]	[kW]	[Hz]	Conn	(∨)	
238	0.3337	1000	S1	40	IE4	146.18	14.91	732	26.0	15	11	50	Δ	380	TEFC
	0.3337	1000	51	40	IE4	146.18	14.91	/32	26.0	15	11	50	Δ	380	TEFC

### Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	13.9	14.7	18.5	21.4	26.0	
Torque	Nm	0.0	35.9	72.2	108.9	146.2	
Speed	r/min	750	746	741	737	732	
Efficiency	%	0.0	83.3	89.1	90.4	90.4	
Power Factor	%	5.4	33.0	50.0	64.0	71.0	
	70	511	55.0	50.0	0110	/ 110	



#### Starting Characteristics Chart



Motor Speed Torque Data P-Up BD Rated NL LR Load Point Speed r/min 0 68 551 732 750 Current А 182.3 164.0 121.5 26.0 13.9 Torque ри 2.0 1.7 3.3 1 0

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

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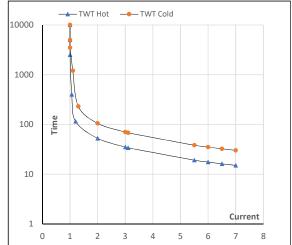
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Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380	Y	50	11	15	26.0	732	14.91	146.18	IE4	40	S1	1000	0.3337	238

### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	I <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	53	35	30	25	19	15
TWT Cold	s	10000	105	70	60	45	38	30
Current	ри	1	2	3	4	5	5.5	7

### Thermal Characteristics Chart



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

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