PRODUCT INFORMATION PACKET

Model No: QCA0111A1133GAA001 Catalog No: QCA0111A1133GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 160M Frame, TEFC



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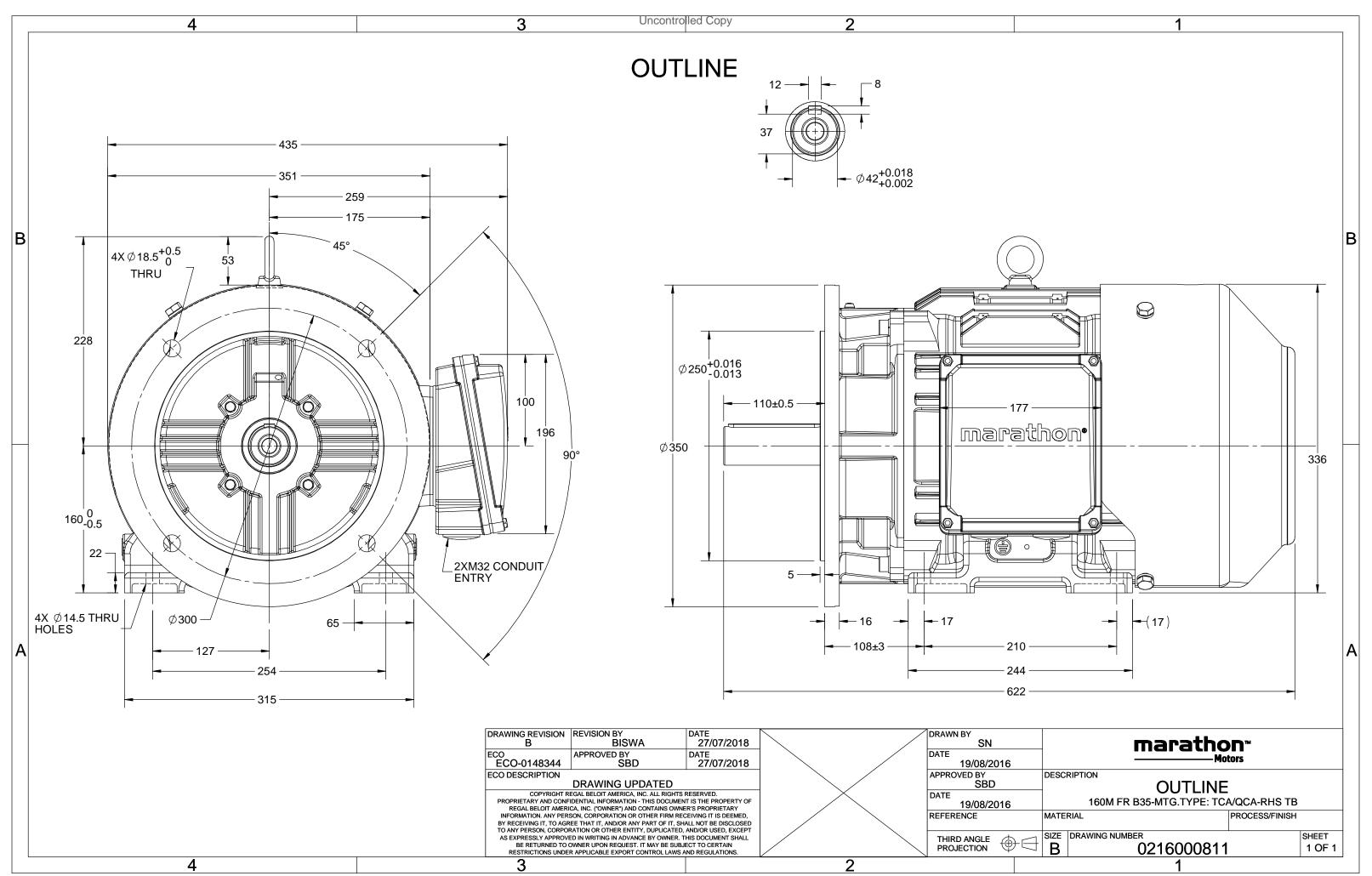
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	19.4 A	Speed	2960 rpm
Service Factor	1	Phase	3
Efficiency	92.6 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	160M	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	No
CE	Yes	IP Code	55
Number of Speeds	4	Efficiency Class	IE4

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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		
Connection Drawing	8442000085	Outline Drawing	0216000811

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3 of 7





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Model No. QCA0111A1133GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	ç	% EFF a	t load	ł	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]
400	Δ	50	11	15	19.3	2960	36.08	IE4	-	92.6	92.6	90.8	0.89	0.85	0.75	8.8	2.8	4.3
Motor	type				QCA				Deg	ree of I	orotecti	on				IP 55		
Enclosi					TEFC					unting		011				IM B35		
	Material	1			Cast Iro	on		Cooling method							IC 411			
Frame	size				160N	1		Motor weight - approx.							165		kg	
Duty					S1				Gross weight - approx.						185		kg	
,	e variatio	on *			± 10%	6			Motor inertia						0.0839		kgm ²	
Freque	ncy varia	ation *			± 5%				Load inertia				Custo	omer to Prov	vide			
Combi	ned varia	ation *			10%				Vibration level					2.2		mm/s		
Design					Ν				Noi	se level	(1mete	er distar	nce fron	n motor)	71		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class				F				Star	rting me	ethod					DOL		
Ambiei	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling	Direct				Direct		
Tempe	rature ri	se (by r	esistanc	e)	80 [Class	s B]		К	LR v	withsta	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea leve	el		1000	1		meter	Dire	ection o	of rotatio	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Star	ndard r	otation				Cloc	kwise form	DE	
	Zone cla	assificat	tion		NA				Pair	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temper	ature c	lass		NA					Acc	essory -	- 1				PTC 150°C		
Rotor t	уре			Alı	uminum D	Die cast				Acc	essory -	- 2				-		
NOTOT L																		

6309-2Z / 6209-2Z DE / NDE bearing Greased for life Lubrication method Type of grease NA

Accessory - 3 RHS Terminal box position 1R x 3C x 35mm²/2 X M32 x 1.5 Maximum cable size/conduit size NA Auxiliary terminal box

 I_A/I_N - Locked Rotor Current / Rated Current $T_{\text{A}}/T_{\text{N}}$ - Locked Rotor Torque / Rated Torque $\rm T_{\rm K}/\rm T_{\rm N}$ - 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 dat	ta are subject to chang	e. There may be slight v	variations between calculated	values in this datashe	eet and the motor nam	eplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2	- 004	IEC 60034-30-1

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Model No. QCA0111A1133GAA001

Enclosure	U	Δ / Y	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	400	Δ	50	11	15	19.3	2960	3.68	36.08	IE4	40	S1	1000	0.0839	165

Motor Load Data

Motor Speed Torque Data

r/min

А

pu

Load Point

Speed

Current

Torque

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	7.1	8.6	12.0	15.6	19.3	
Torque	Nm	0.0	8.9	17.9	27.0	36.1	
Speed	r/min	3000	2990	2980	2971	2960	
Efficiency	%	0.0	85.4	90.8	92.6	92.6	
Power Factor	%	9.1	55.3	75.0	85.0	89.0	

P-Up

600

152.6

2.3

LR

0

169.5

2.8

BD

2650

105.6

4.3

Rated

2960

19.3

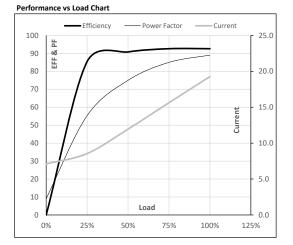
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NL

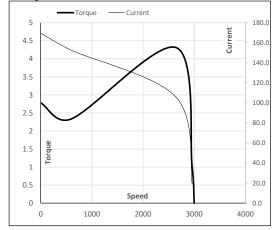
3000

7.1

0



Starting Characteristics Chart



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

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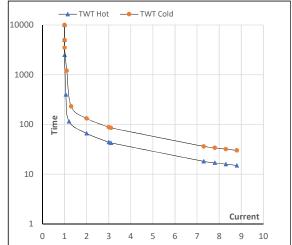
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	19.3	2960	3.68	36.08	IE4	40	S1	1000	0.0839	165

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	66	44	35	25	20	15
TWT Cold	s	10000	132	88	70	50	40	30
Current	pu	1	2	3	4	5	5.5	8.8

Thermal Characteristics Chart



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

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