PRODUCT INFORMATION PACKET

Model No: QCA0044A1133GAA001 Catalog No: QCA0044A1133GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 160M Frame, TEFC



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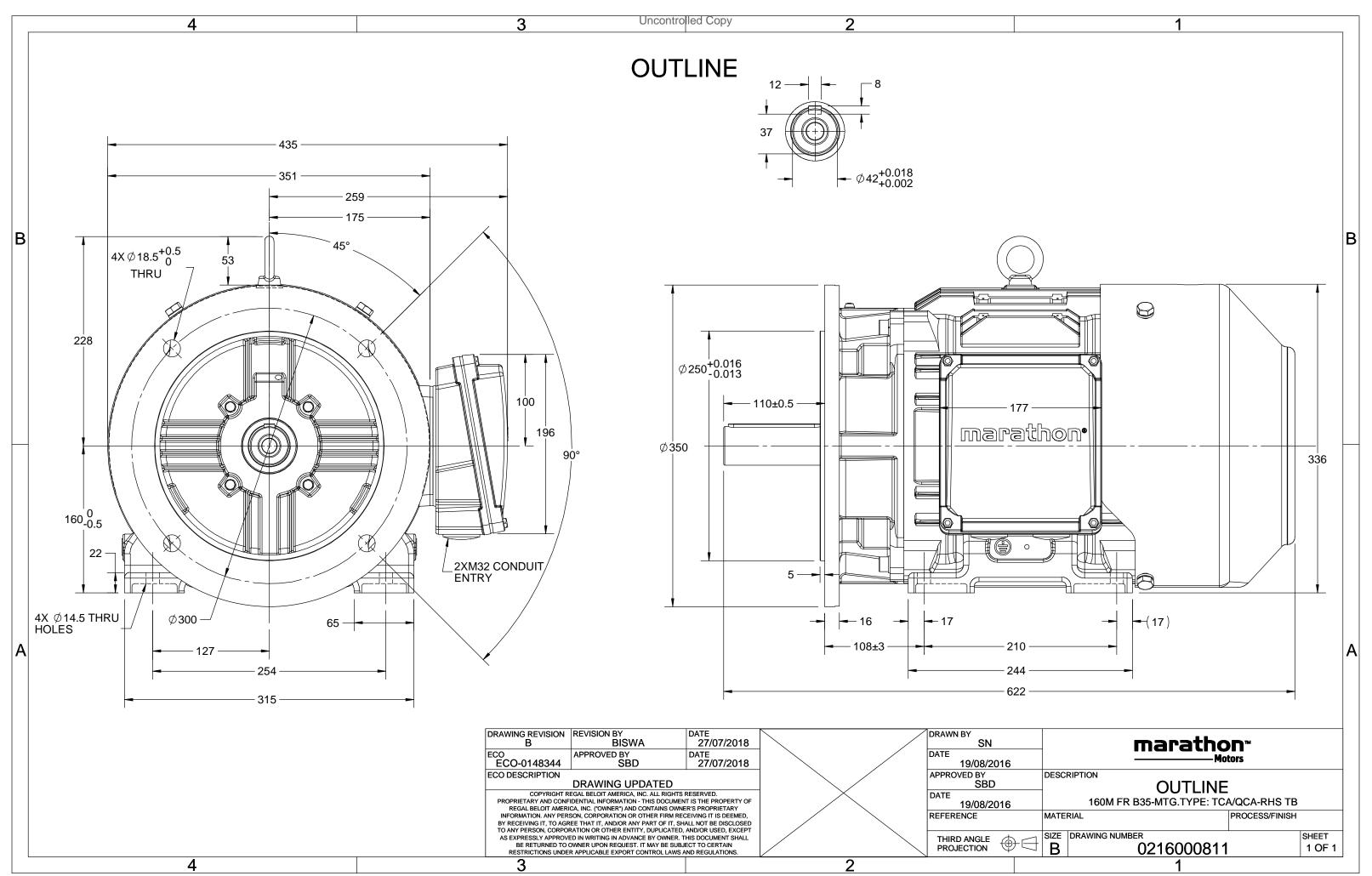
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	400 V
Current	9.6 A	Speed	730 rpm
Service Factor	1	Phase	3
Efficiency	87.1 %	Power Factor	0.69
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	160M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209

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	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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Model No. QCA0044A1133GAA001

U	Δ / Y	f	Р	Р	I.	n	Т	IE	9	% EFF a	t load	d	PF	at lo	bad	I_A/I_N	T_A/T_N	Т _к /Т _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	4	5.5	9.6	730	53.76	IE4	-	87.1	87.1	84.8	0.69	0.61	0.47	5.3	1.8	2.4
Motor t	NDO				QCA				Doc	roo of	protecti	00				IP 55		
Enclosu	<i>/</i> ··				TEFC							011				IM B35		
Frame N					Cast Ir					Mounting type Cooling method						IC 411		
Frame s					160N				Motor weight - approx.							140		k
Duty	nec.				S1	-			Gross weight - approx.							160		k
Voltage	variatio	on *			± 10%	6			Motor inertia						0.1312			kgm
Frequer					± 5%					Load inertia						Customer to Provide		
Combin	'				10%					Vibration level						2.2		mm/
Design					N				Noise level (1meter distance from motor)	59		dB(A	
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spre	ead		2/3/4		
Insulatio	on class				F				Sta	rting m	ethod		, ,			DOL		
Ambien	t tempe	erature			-20 to +	-40		°C	Тур	e of co	upling					Direct		
Гетрег	ature ri	se (by r	resistanc	e)	80 [Clas	s B]		К	LR	LR withstand time (hot/cold)						15/30		
Altitude	above	sea lev	el		1000)		meter	Dire	ection c	of rotatio	on			В	i-directional		
Hazardo	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form [DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Acc	cessory -	- 1				PTC 150°C		
Rotor ty	/pe			Alu	uminum [Die cast				Acc	cessory -	- 2				-		
Bearing	type			A	nti-frictio	on ball				Acc	cessory -	- 3			-			
DE / ND	E beari	ng		63	09-2Z / 6	209-2Z			Ter	minal b	ox posit	ion				RHS		
Lubricat	tion me	thod		G	ireased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	35mm²/2 X N	132 x 1.5	
Type of	grease				NA				Aux	iliary te	erminal l	box				NA		

 I_A/I_N - Locked Rotor Current / Rated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

T_K/T_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 data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate 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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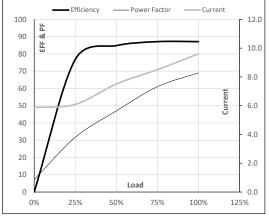
Model No. QCA0044A1133GAA001

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	4	5.5	9.6	730	5.48	53.76	IE4	40	S1	1000	0.1312	140

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	5.9	6.1	7.5	8.5	9.6	
Torque	Nm	0.0	13.2	26.5	40.0	53.8	
Speed	r/min	750	745	741	736	730	
Efficiency	%	0.0	76.8	84.8	87.1	87.1	
Power Factor	%	7.2	31.7	47.0	61.0	69.0	
Power Factor	%	7.2	31.7	47.0	61.0	69.0	

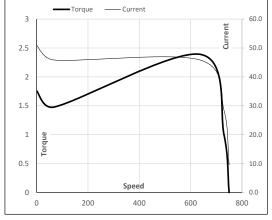
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	68	637	730	750
Current	А	50.9	45.8	28.4	9.6	5.9
Torque	pu	1.8	1.5	2.4	1	0

Starting Characteristics Chart



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

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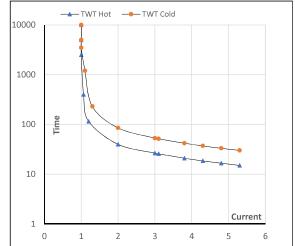
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	4	5.5	9.6	730	5.48	53.76	IE4	40	S1	1000	0.1312	140

Motor Speed Torque Data

-								
Load		FL	I ₁	I ₂	I ₃	I ₄	I ₅	LR
TWT Hot	s	10000	40	27	20	18	16	15
TWT Cold	s	10000	85	53	40	35	32	30
Current	pu	1	2	3	4	4.5	5	5.3

Thermal Characteristics Chart



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

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