PRODUCT INFORMATION PACKET

Model No: QCA0041A1111GAA001 Catalog No: QCA0041A1111GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 112M Frame, TEFC



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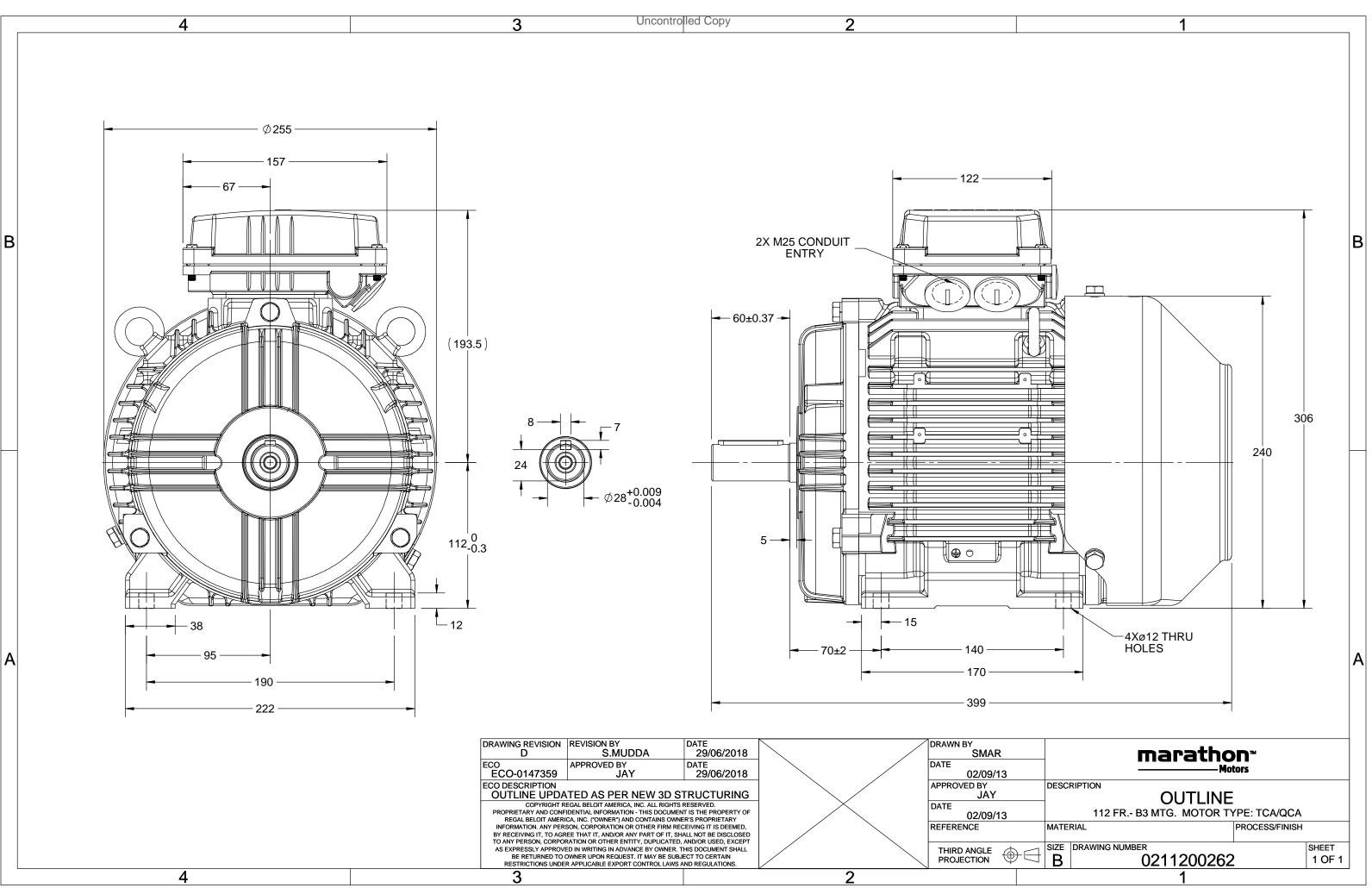
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	400 V
Current	7.1 A	Speed	2932 rpm
Service Factor	1	Phase	3
Efficiency	90 %	Power Factor	0.91
Duty	S1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	112M 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 6306	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	399 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0211200262

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TerraMAX[®]

TOP

1R x 3C x 16mm²/2 x M25 x 1.5

NA

Model No. QCA0041A1111GAA001

U	Δ/Υ	f	Р	Р		n	Т	IE	%	6 EFF a	t load	d	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		1/2FL	FL		1/2FL	[pu]	[pu]	[pu]	
400	Δ	50	4	5.5	7.0	2932	13.35	IE4	-	90	90	89.9	0.91	0.87	0.77	9.9	3.3	4.6	
Motor	type				QCA				Deg	ree of	protecti	on				IP 55			
Enclos	ure				TEFC	2			Μοι	unting	type					IM B3			
Frame	Materia	I			Cast Iron				Coo	ling me	ethod					IC 411			
Frame	size				112M			Motor weight - approx.							53		kg		
Duty					S1			Gross weight - approx.							56		kg		
Voltag	e variatio	on *			± 10%	6			Motor inertia							0.0126		kgm ²	
Freque	ency varia	ation *			± 5%	D		Load inertia					Cust	omer to Prov	/ide				
Combi	ned varia	ation *			10%				Vibr	ation I	evel					1.6		mm/s	
Design					N				Nois	se leve	l (1mete	er distar	nce fron	ce from motor)		64		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	ting m	ethod					DOL			
Ambie	nt tempe	erature			-20 to +	-40		°C	Туре	e of co	upling					Direct			
Tempe	rature ri	se (by r	resistanc	ce)	80 [Clas	s B]		К	LR w	vithsta	nd time	(hot/co	ld)			20-Oct		S	
Altitud	e above	sea lev	el		1000)		meter	Dire	ction o	of rotatio	on			В	i-directional			
Hazard	lous area	a classif	ication		NA				Star	ndard r	otation				Cloc	ckwise form l	DE		
	Zone cla	assifica	tion		NA				Pain	it shad	e				RAL 5014				
	Gas gro	up			NA				Acce	essorie	S								
	Temper	ature c	lass		NA					Ac	cessory -	- 1				PTC 150°C			
Rotor	type			Alu	ıminum l	Die cast				Ac	cessory	- 2				-			
Bearin	g type			A	nti-frictio	on ball				Ac	cessory ·	- 3				-			

 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

Terminal box position

Auxiliary terminal box

Maximum cable size/conduit size

NOTE

DE / NDE bearing

Type of grease

Lubrication method

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

6306-2Z / 6206-2Z

Greased for life

NA

* Voltage, Frequency and combined variation are as per IEC60034-1

Technical da	ta are subject to chang	e. There may be slight v	variations between calculated va	alues in this datashee	et and the motor name	plate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2	- 004	IEC:60034-30-1

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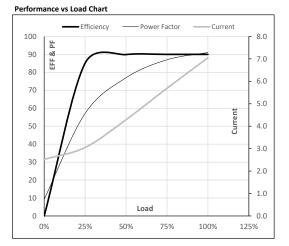


Model No. QCA0041A1111GAA001

Enclosure	U	Δ / Y	f	Р	Р	1	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	7.0	2932	1.36	13.35	IE4	40	S1	1000	0.0126	53

Motor Load Data

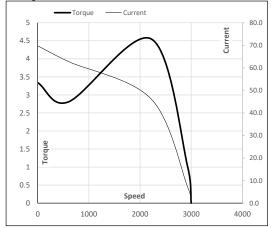
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.5	3.1	4.3	5.7	7.0	
Torque	Nm	0.0	3.3	6.6	10.0	13.4	
Speed	r/min	3000	2983	2967	2950	2932	
Efficiency	%	0.0	85.1	89.9	90.0	90.0	
Power Factor	%	9.3	57.1	77.0	87.0	91.0	



Motor Speed Torque Data

motor oper	a lorque pu						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2221	2932	3000	
Current	А	69.8	62.8	46.2	7.0	2.5	
Torque	pu	3.3	2.8	4.6	1	0	

Starting Characteristics Chart



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

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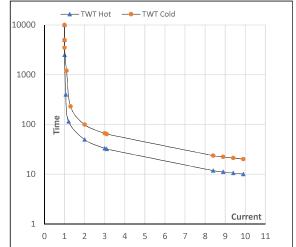
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	4.0	5.5	7.0	2932	1.36	13.35	IE4	40	S1	1000	0.0126	53

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	50	33	23	19	15	10
TWT Cold	s	10000	99	66	45	35	30	20
Current	pu	1	2	3	4	5	5.5	9.9

Thermal Characteristics Chart



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

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