PRODUCT INFORMATION PACKET

Model No: QCA0552A1111GAA001 Catalog No: QCA0552A1111GAA001 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 250M Frame, TEFC



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Motors

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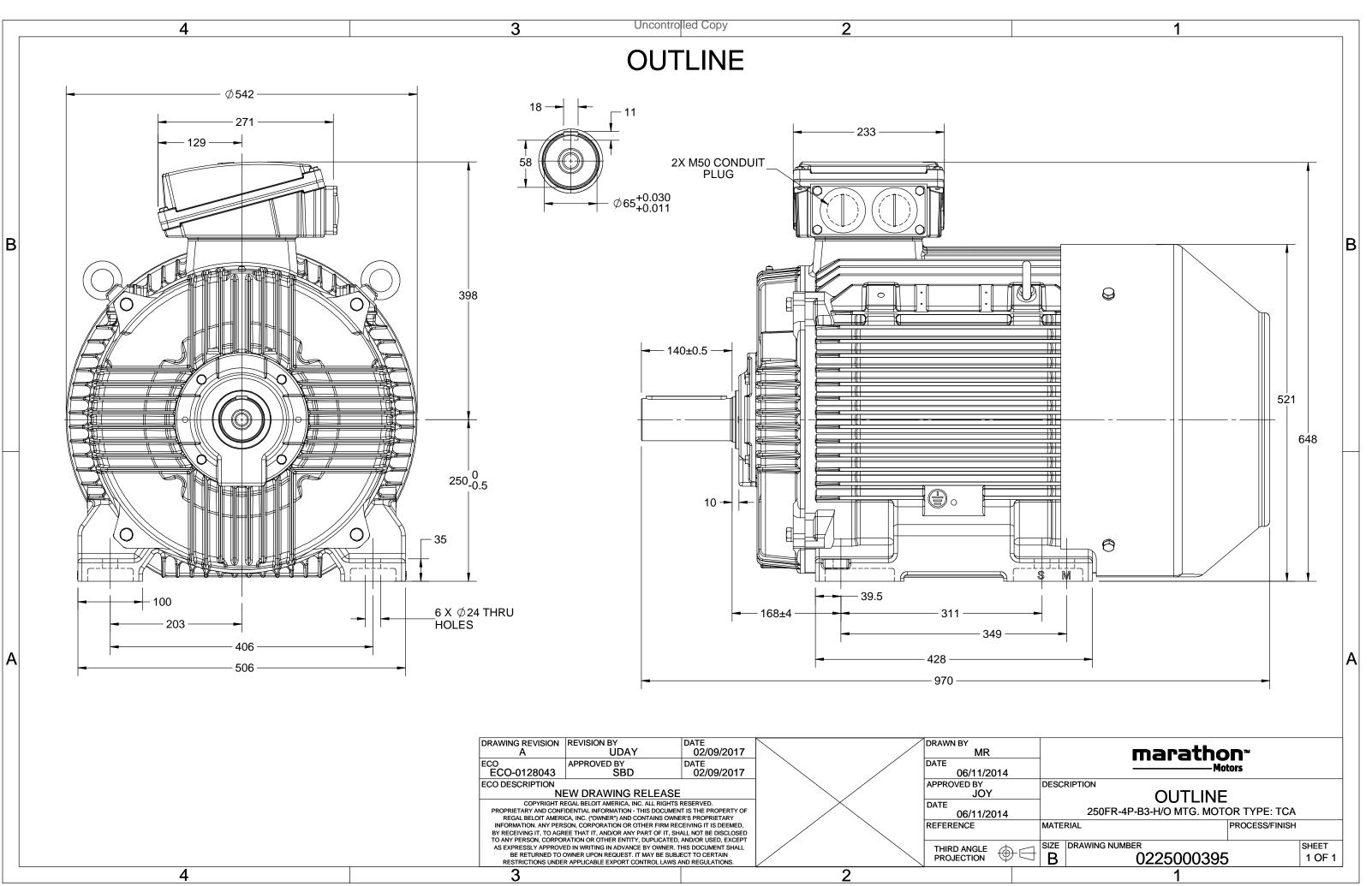
Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	400 V
Current	99.6 A	Speed	1489 rpm
Service Factor	1	Phase	3
Efficiency	95.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	No	CSA	No
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	4	Rotation	Bi-Directional	
Mounting	B3	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	С3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	970 mm	Frame Length	425 mm	
Shaft Diameter	65 mm	Shaft Extension	140 mm	
Assembly/Box Mounting	Тор			
Connection Drawing	8442000085	Outline Drawing	0225000395	

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Model No. QCA0552A1111GAA001

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	$T_{\rm K}/T_{\rm N}$
(∨)	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	55	75	98.8	1489	358.82	IE4	-	95.7	95.7	94.5	0.84	0.78	0.66	8	2.5	3.9
Motor	1000				QCA				Dec	roo of	protecti	~ ~				IP 55		
Enclos					TEFC							UII				IM B3		
	ure Material				Cast Ire					unting						IC 411		
		I			250N		Cooling method						601		l.e.			
Frame	size				2501v S1	1	Motor weight - approx.						636			kg		
Duty		*			± 10%	,			Gross weight - approx.					1.6850			kg	
-	e variatio								Motor inertia				<u> </u>		• •	kgm ²		
	ency varia				± 5%					d inerti					Custo	omer to Prov	ide	
	ned varia	ation *			10%				ration l						2.2		mm/s	
Design					N						l (1mete)	68		dB(A)
Service	e factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class	5			F				Star	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling					Direct			
Tempe	rature ri	ise (by i	resistanc	e)	80 [Clas	s B]		К	LR v	vithsta	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea lev	el		1000	1		meter	Dire	ection c	of rotatio	on			В	i-directional		
Hazard	lous area	a classif	ication		NA				Star	ndard r	otation				Cloc	ckwise form D	DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	oup			NA				Acc	essorie	s							
	Temper	rature o	class		NA					Acc	cessory -	- 1				PTC 150°C		
Rotor t	ype			Al	uminum [Die cast				Acc	cessory -	2				-		
Bearin	g type			A	nti-frictic	n ball				Acc	cessory -	3				-		
DE / N	DE beari	ng		63	14 C3 / 6	314 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod			Regrease	able			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 9	95mm²/2 x M	150 x 1.5	
Type o	f grease			CHEVRO	DN SRI-2 c	or Equival	ent		Aux	iliary te	erminal l	оох				NA		
	2																	

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 combined variation are as per IEC60034-1

Technical da	ta are subject to chang	ge. There may be slight v	variations between calculated va	alues in this datashe	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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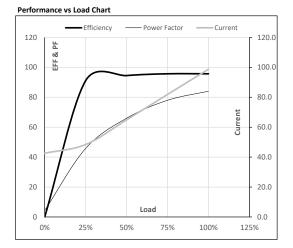


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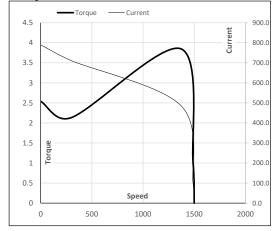
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	55	75	98.8	1489	36.59	358.82	IE4	40	S1	1000	1.6850	601
											-				

Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	42.6	48.4	64.9	81.9	98.8	
Nm	0.0	89.2	178.7	268.6	358.8	
r/min	1500	1497	1494	1491	1489	
%	0.0	91.1	94.5	95.7	95.7	
%	4.3	45.8	66.0	78.0	84.0	
	Nm r/min %	Nm 0.0 r/min 1500 % 0.0	Nm 0.0 89.2 r/min 1500 1497 % 0.0 91.1	Nm 0.0 89.2 178.7 r/min 1500 1497 1494 % 0.0 91.1 94.5	Nm 0.0 89.2 178.7 268.6 r/min 1500 1497 1494 1491 % 0.0 91.1 94.5 95.7	Nm 0.0 89.2 178.7 268.6 358.8 r/min 1500 1497 1494 1491 1489 % 0.0 91.1 94.5 95.7 95.7



Starting Characteristics Chart



Motor Speed Torque Data LR P-Up BD Rated NL Load Point Speed r/min 0 300 1370 1489 1500 Current А 790.0 711.0 487.1 98.8 42.6 Torque ри 2.5 2.1 3.9 1 0

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

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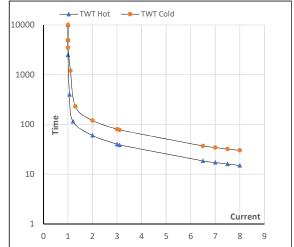
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	55	75	98.8	1489	36.59	358.82	IE4	40	S1	1000	1.6850	601

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	60	40	34	25	20	15
TWT Cold	s	10000	120	80	70	55	50	30
Current	ри	1	2	3	4	5	5.5	8

Thermal Characteristics Chart



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

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