PRODUCT INFORMATION PACKET

Model No: QCA0552AF111GAA001 Catalog No: QCA0552AF111GAA001 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 250M Frame, TEFC



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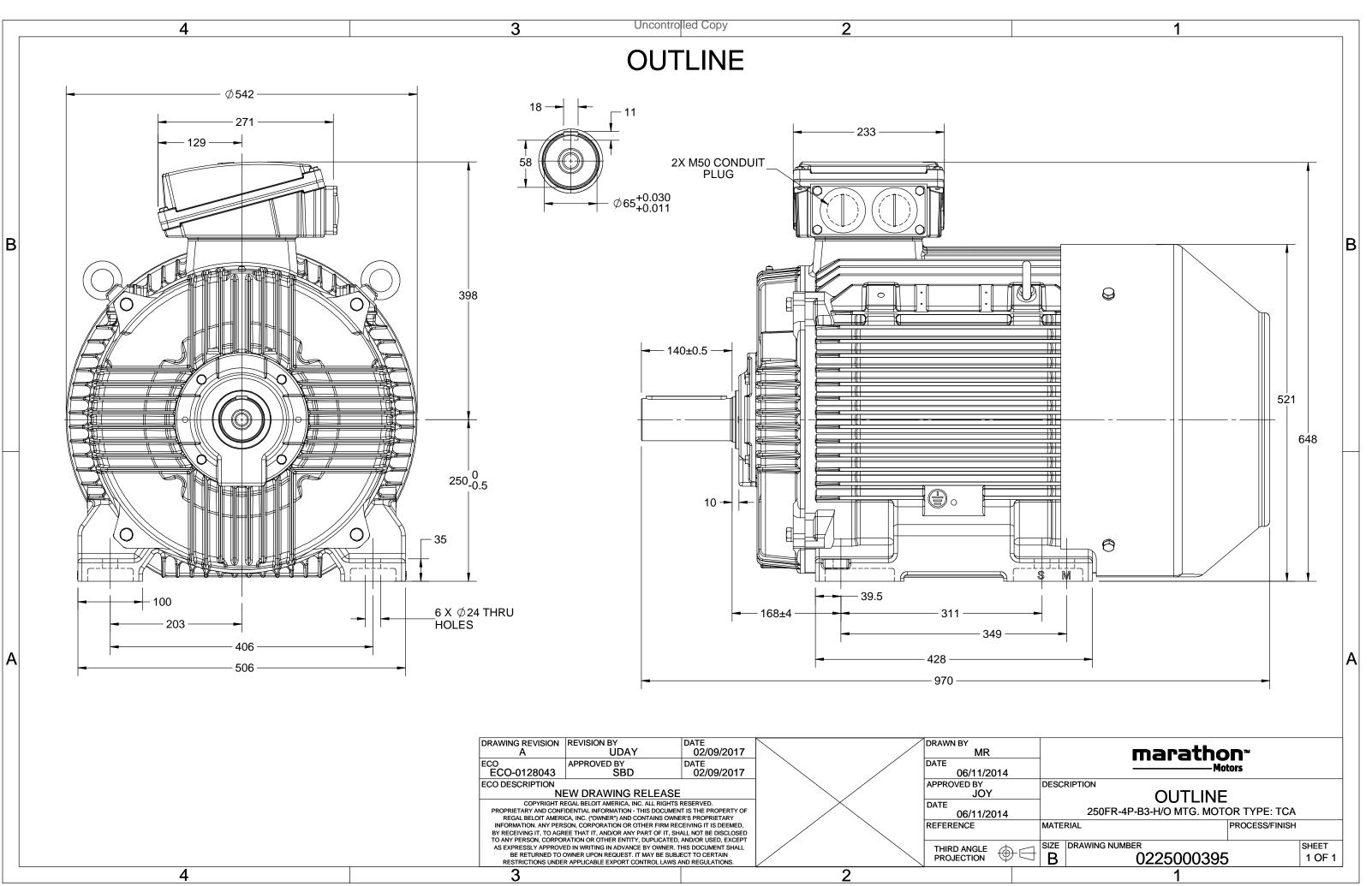
Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	380 V
Current	104.9 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
Frame Thermal Protection	250M 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 6314	Ambient Temperature Opp Drive End Bearing Size	40 °C 6314

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	ВЗ	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	C3
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		
Outline Drawing	0225000395	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t load	ł	PF	at lo	bad	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	55	75	104.0	1489	358.82	IE4	-	95.7	95.7	94.5	0.84	0.78	0.66	8	2.5	3.9
Motor	type				QCA						protecti	on				IP 55		
Enclosu	ure				TEFC				Mo	ounting	type					IM B3		
Frame	Material				Cast Irc				Coo	oling me	ethod					IC 411		
Frame	size				250M				Mo	otor wei	ght - ap	orox.				601		kg
Duty					S1				Gro	oss weig	ght - app	rox.				636		kg
Voltage	e variatio	on *			± 10%				Mo	tor iner	tia					1.6850		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	nd inerti	a				Custo	omer to Prov	ide	
Combir	ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				Noi	ise leve	l (1mete	er distar	nce fror	n motor)	68		dB(A)
Service	factor				1.0				No	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	ion class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling					Direct			
Tempe	rature ri	se (by r	esistance	e)	80 [Class	В]		К	LR	LR withstand time (hot/cold)					15/30			S
Altitud	e above	sea lev	el		1000			meter	Dir	Direction of rotation					Bi-directional			
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	kwise form I	DE	
	Zone cla	assificat	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	s							
	Temper	ature c	lass		NA					Aco	cessory -	1				PTC 150°C		
Rotor t	ype	•				Accessory - 2					-							
Bearing	g type			A	nti-frictio	n ball				Aco	cessory -	3				-		
DE / NE	DE bearin	ng		63	814 C3 / 6	314 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod			Regreasa	ble			Ma	ximum	cable siz	ze/cond	uit size	1F	x 3C x 9	95mm²/2 x N	150 x 1.5	
Type of	f grease		(CHEVRO	ON SRI-2 o	r Equival	ent		Aux	kiliary te	erminal	ьох				NA		

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current

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

 T_A/T_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 da	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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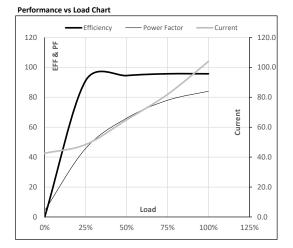


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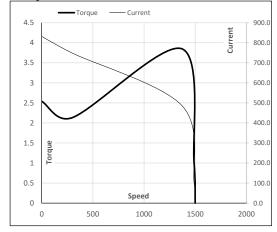
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	55	75	104.0	1489	36.59	358.82	IE4	40	S1	1000	1.6850	601

Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	42.6	48.4	64.9	81.9	104.0	
Nm	0.0	89.2	178.7	268.6	358.8	
/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 /min %	Nm 0.0 /min 1500 % 0.0	Nm 0.0 89.2 /min 1500 1497 % 0.0 91.1	Nm 0.0 89.2 178.7 /min 1500 1497 1494 % 0.0 91.1 94.5	Nm 0.0 89.2 178.7 268.6 /min 1500 1497 1494 1491 % 0.0 91.1 94.5 95.7	Nm 0.0 89.2 178.7 268.6 358.8 /min 1500 1497 1494 1491 1489 % 0.0 91.1 94.5 95.7 95.7



Starting	Characteristics	Chart



Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	300	1370	1489	1500
Current	А	831.6	748.4	487.1	104.0	42.6
Torque	pu	2.5	2.1	3.9	1	0

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

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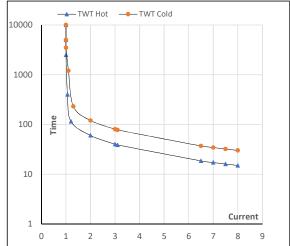
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	55	75	104.0	1489	36.59	358.82	IE4	40	S1	1000	1.6850	601

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	pu	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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