PRODUCT INFORMATION PACKET

Model No: QCA2501AF111GAA001 Catalog No: QCA2501AF111GAA001 TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 380 V, 3000 RPM, 355M Frame, TEFC



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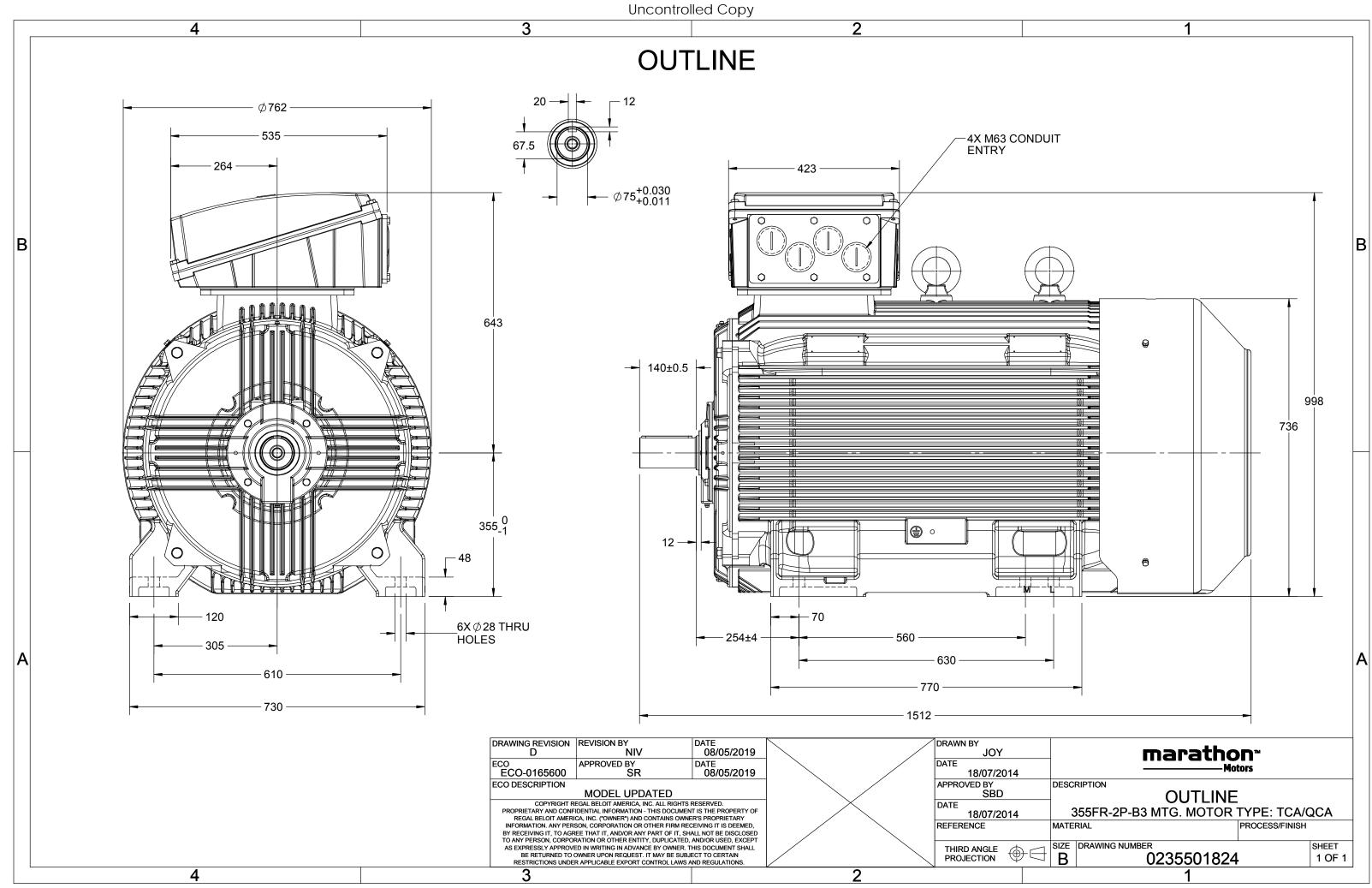
Nameplate Specifications

Output HP	335 Нр	Output KW	250.0 kW		
Frequency	50 Hz	Voltage	380 V		
Current	445.0 A	Speed	2987 rpm		
Service Factor	1	Phase	3		
Efficiency	96.5 %	Power Factor	0.89		
Duty	S1	Insulation Class	F		
Frame	355M	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	355M 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 6317	Ambient Temperature Opp Drive End Bearing Size	40 °C 6317		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	1512 mm	Frame Length	1010 mm
Shaft Diameter	75 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0235501824

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	k	PF	at lo	bad	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]
380	Δ	50	250	335	442.3	2987	798.67	IE4	-	96.5	96.5	94.5	0.89	0.86	0.77	8.3	2.6	4.0
Motor t	уре				QCA				Deg	gree of	protecti	on				IP 55		
Enclosu	re				TEFC				Mo	unting	type					IM B3		
Frame N	Materia	I			Cast Iro				Coc	oling me	ethod					IC 411		
Frame s	ize				355N	I			Mo	tor wei	ght - ap	orox.				1965		kg
Duty					S1				Gro	oss weig	ht - app	rox.				2010		kg
Voltage	variatio	on *			± 10%	5			Mo	tor iner	tia					5.1256		kgm ²
Frequer	ncy varia	ation *			± 5%				Loa	ıd inerti	а				Custo	omer to Prov	vide	
Combin	ed varia	ation *			10%				Vib	ration l	evel					2.8		mm/s
Design					Ν				Noi	se leve	(1mete	er distar	nce fror	n motor)	90		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulatio	on class	5			F				Sta	rting m	ethod					DOL		
Ambien	t tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Temper	ature ri	ise (by i	resistan	ce)	80 [Class	6 B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitude	above	sea lev	el		1000			meter	Dire	ection c	of rotatio	on			В	i-directiona	I	
Hazardo	ous area	a classif	fication		NA				Sta	ndard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
-	Temper	rature o	class		NA					Aco	cessory -	· 1				PTC 150°C		
Rotor ty	/pe			A	luminum D	Die cast				Aco	essory -	- 2				-		
Bearing	type			1	Anti-frictio	n ball				Aco	essory -	- 3				-		
DE / ND	E beariı	ng		6	317 C3 / 6	317 C3			Ter	minal b	ox posit	ion				TOP		
Lubricat	tion me	thod			Regreasa	able			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 3	00mm²/4 x	M63 x 1.5	
Type of	grease			CHEVR	ON SRI-2 o	r Equival	lent		Aux	kiliary te	erminal	box				NA		
Type of	grease			CHEVR	ON SRI-2 o	r Equival	lent		Aux	kiliary te	erminal	box				NA		

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_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 combine variation are as per IEC60034-1

Technical da	ta are subject to	o change. There may be discrepanci	es between calcula	ted and name plate value	es.	
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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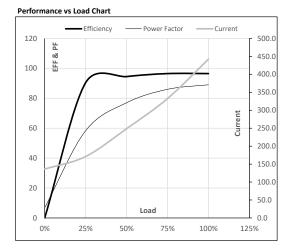


Model No. QCA2501AF111GAA001

21 11 1	2							п	1	P	P	t	Δ / Y	U	Enclosure
²] [kg]	[kg-m ²]	[m]		[°C]	Class	[Nm]	[kgm]	[RPM]	[A]	[hp]	[kW]	[Hz]	Conn	(∨)	
6 1965	5.1256	1000	S1	40	IE4	798.67	81.44	2987	442.3	335	250	50	Δ	380	TEFC
6	5.1256	1000	S1	40	IE4	798.67	81.44	2987	442.3	335	250	50	Δ	380	TEFC

Motor Load Data

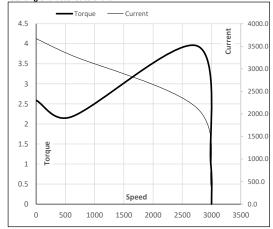
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	136.1	171.0	248.6	332.5	442.3	
Nm	0.0	199.0	398.4	598.3	798.7	
r/min	3000	2997	2993	2990	2987	
%	0.0	90.4	94.5	96.5	96.5	
%	6.8	58.3	77.0	86.0	89.0	
	Nm /min %	Nm 0.0 /min 3000 % 0.0	Nm 0.0 199.0 /min 3000 2997 % 0.0 90.4	Nm 0.0 199.0 398.4 /min 3000 2997 2993 % 0.0 90.4 94.5	Nm 0.0 199.0 398.4 598.3 /min 3000 2997 2993 2990 % 0.0 90.4 94.5 96.5	Nm 0.0 199.0 398.4 598.3 798.7 /min 3000 2997 2993 2990 2987 % 0.0 90.4 94.5 96.5 96.5



ď	Torque	Data	
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Motor Speed	l Torque Da	ta				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2748	2987	3000
Current	А	3670.8	3303.7	2133.2	442.3	136.1
Torque	pu	2.6	2.2	4.0	1	0





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

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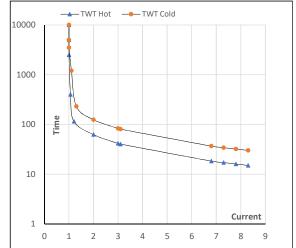
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	250	335	442.3	2987	81.44	798.67	IE4	40	S1	1000	5.1256	1965

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	62	42	30	25	19	15
TWT Cold	s	10000	125	83	65	50	38	30
Current	pu	1	2	3	4	5	5.5	8.3

Thermal Characteristics Chart



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

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