PRODUCT INFORMATION PACKET

Model No: QCA2503AF111GAA001 Catalog No: QCA2503AF111GAA001 TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 355L Frame, TEFC



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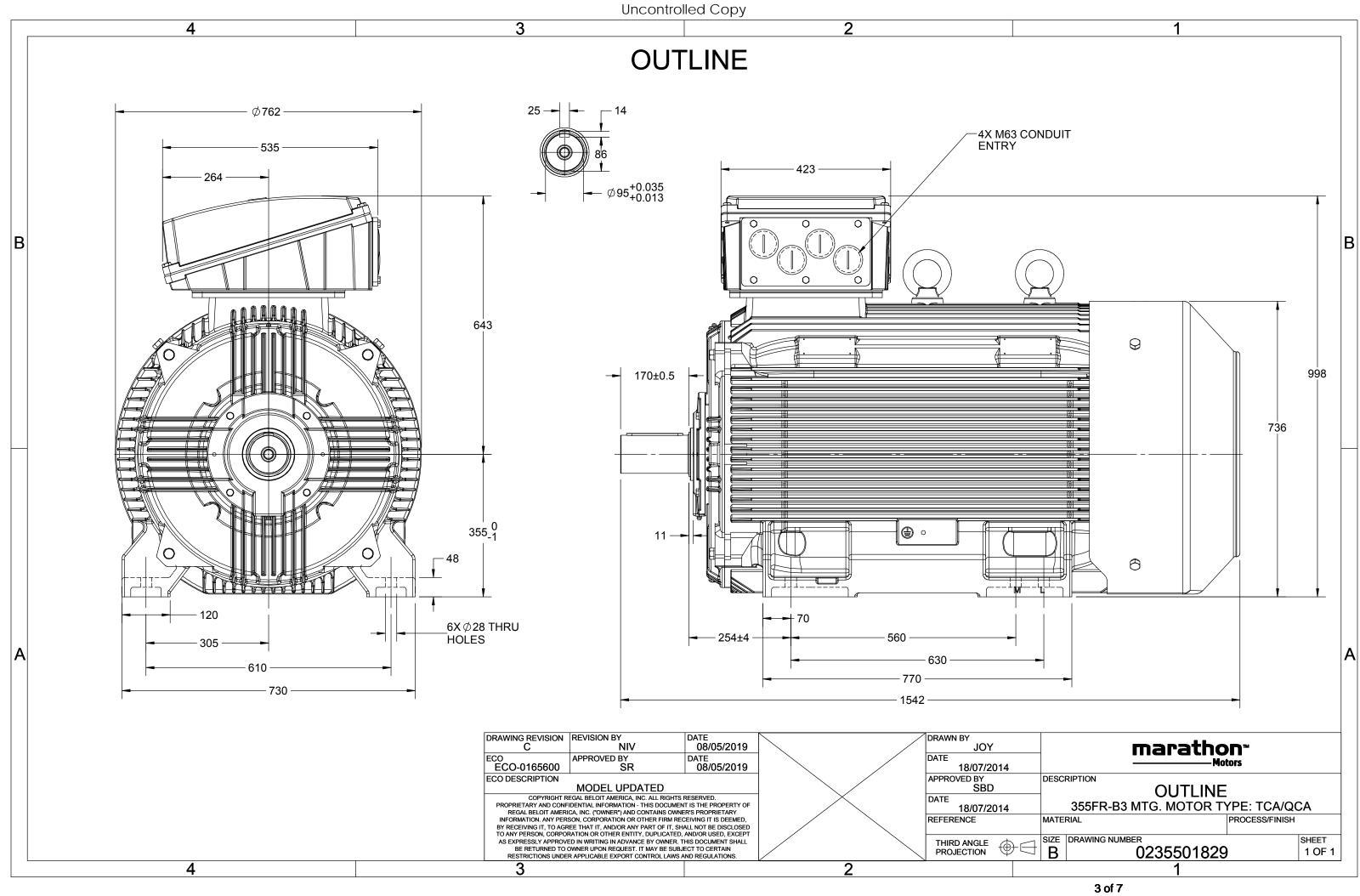
Nameplate Specifications

Output HP	335 Hp	Output KW	250.0 kW
Frequency	50 Hz	Voltage	380 V
Current	473.3 A	Speed	993 rpm
Service Factor	1	Phase	3
Efficiency	96.5 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Traine	300L	LICIOSULE	Totally Enclosed Fall Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6322	Ambient Temperature Opp Drive End Bearing Size	40 °C 6322

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	6	Rotation	Bi-Directional	
Mounting	B3	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1542 mm	Frame Length	1010 mm	
Shaft Diameter	95 mm	Shaft Extension	170 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0235501829	Connection Drawing	8442000085	

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TerraMAX[®]

Model No. QCA2503AF111GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF at	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	250	335	468.6	993	######	IE4	-	96.5	96.5	95.7	0.84	0.79	0.68	7.3	2.4	3.0	
Motor	type				QCA				Deg	gree of p	protection	on				IP 55			
Enclosu	ire				TEFC				Mo	unting	type					IM B3			
Frame	rame Material Cast Iron							Coc	oling me	ethod					IC 411				
Frame	rame size 355L Motor weight - approx.							orox.				2180		kg					
Duty					S1				Gross weight - approx.						2225			kg	
Voltage	e variatio	on *			± 10%				Motor inertia							15.0701		kgm ²	
Freque	ncy varia	ation *			± 5%				Load inertia						Custo	omer to Pro	vide		
Combir	ned varia	ation *			10%				Vibration level							2.8		mm/s	
Design					Ν				Noise level (1meter distance from moto					n motor) 70			dB(A)	
Service	factor				1.0				No.	of star	ts hot/co	old/Equ	ally spr	ead	2/3/4				
Insulati	on class				F				Sta	Starting method						DOL			
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling						Direct			
Tempe	rature ri	se (by r	resistanc	e)	80 [Class	B]		К	LR	LR withstand time (hot/cold)						15/30			
Altitude	e above	sea lev	el		1000			meter	Dire	ection o	of rotatio	n			В	i-directiona	I		
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form	DE		
	Zone cla	assifica	tion		NA				Pai	nt shad	е					RAL 5014			
	Gas gro	up			NA				Acc	essorie	s								
	Temper	ature o	lass		NA					Acc	essory -	1				PTC 150°C			
Rotor t	cor type Aluminum Die cast					Accessory - 2					-								
Bearing	g type			A	Anti-frictio	n ball				Accessory - 3						-			
DE / NE	DE bearin	ng		63	322 C3 / 63	322 C3			Ter	minal b	ox posit	ion				TOP			
Lubrica	tion me	thod			Regreasa	ble			Ma	ximum	cable siz	e/cond	uit size	1R	x 3C x 3	00mm²/4 x	M63 x 1.5		
Type of	grease			CHEVRO	ON SRI-2 o	r Equiva	lent		Aux	ciliary te	erminal l	хос				NA			

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - 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	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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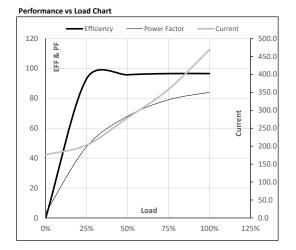


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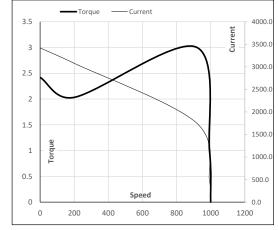
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	250	335	468.6	993	245.06	2403.26	IE4	40	S1	1000	15.0701	2180

Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	175.9	203.2	278.8	358.1	468.6	
Nm	0.0	597.5	1197.1	1799.0	2403.3	
r/min	1000	998	996	995	993	
%	0.0	93.1	95.7	96.5	96.5	
%	3.5	47.7	68.0	79.0	84.0	
	Nm r/min %	A 175.9 Nm 0.0 r/min 1000 % 0.0	A 175.9 203.2 Nm 0.0 597.5 r/min 1000 998 % 0.0 93.1	A 175.9 203.2 278.8 Nm 0.0 597.5 1197.1 r/min 1000 998 996 % 0.0 93.1 95.7	A 175.9 203.2 278.8 358.1 Nm 0.0 597.5 1197.1 1799.0 r/min 1000 998 996 995 % 0.0 93.1 95.7 96.5	A 175.9 203.2 278.8 358.1 468.6 Nm 0.0 597.5 1197.1 1799.0 2403.3 r/min 1000 998 996 995 993 % 0.0 93.1 95.7 96.5 96.5



Starting Characteristics Chart



Motor Speed	d Torque Da	ita				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	200	914	993	1000
Current	А	3420.7	3078.6	1768.4	468.6	175.9
Torque	pu	2.4	2.0	3.0	1	0

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

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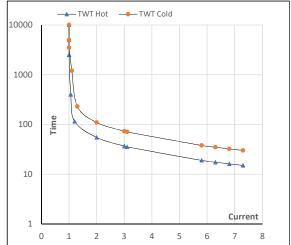
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	250	335	468.6	993	245.06	2403.26	IE4	40	S1	1000	15.0701	2180

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	55	37	30	25	20	15
TWT Cold	s	10000	110	73	60	45	40	30
Current	ри	1	2	3	4	5	5.5	7.3

Thermal Characteristics Chart



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

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