PRODUCT INFORMATION PACKET

Model No: TCN2502A1111GAC010 Catalog No: TCN2502A1111GAC010 TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 355M Frame, TEFC



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Motors



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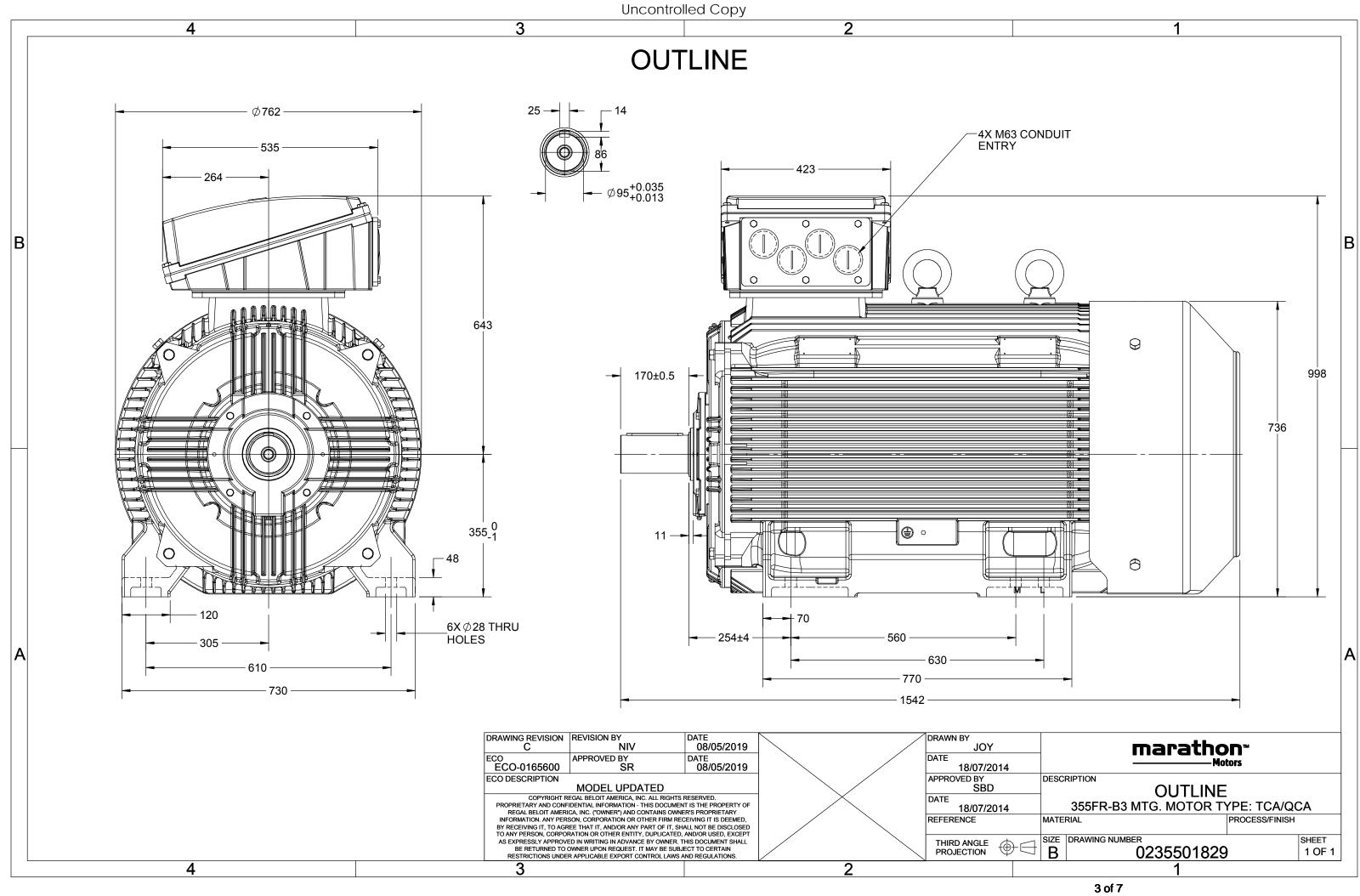
Nameplate Specifications

Output HP	335 Нр	Output KW	250.0 kW
Frequency	50 Hz	Voltage	400 V
Current	422.3 A	Speed	1490 rpm
Service Factor	1	Phase	3
Efficiency	96 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Thermal Drotestian			
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6322	Ambient Temperature Opp Drive End Bearing Size	40 °C 6322
		· · · · · · · · · · · · · · · · · · ·	
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322

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	СЗ
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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Model No. TCN2502A1111GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE	ģ	6 EFF a	t loa	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]
400	Δ	50	250	335	422.3	1490	1601.3	IE3	-	96	96	95.8	0.89	0.88	0.83	6.5	1.9	2.5
Motor	type				TCN				Deg	ree of	protecti	on				IP 55		
Enclosu					TEFC					unting						IM B3		
Frame	Material				Cast Irc	n				ling me						IC 411		
Frame	size				355M					0	ght - ap	orox.				1742		kg
Duty					S1				Gro	ss weig	ght - app	rox.				1788		kg
Voltage	e variatio	on *			± 10%					tor ine						8.4434		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	d inerti	a				Cust	omer to Pro	ovide	
Combi	ned varia	ation *			10%				Vib	ration l	evel					2.8		mm/s
Design					Ν				Noi	se leve	l (1met	er distai	nce from	n motor)	82		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		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by r	esistanc	e)	80 [Class	в]		К	LR v	vithsta	nd time	(hot/co	ld)			15/30		s
Altitud	e above	sea lev	el		1000			meter	Dire	ection o	of rotatio	on			В	i-directiona	al	
Hazard	ous area	a classif	ication		Ex nA				Star	ndard r	otation				Clo	ckwise form	n DE	
	Zone cla	assifica	tion		Zone	2			Pair	nt shad	e					RAL 5014		
	Gas gro	up			IIC				Acc	essorie	s							
	Temper	ature o	lass		Т3					Ace	cessory	- 1				PTC 150°C		
Rotor t	ype			Alı	uminum D	ie cast				Ace	cessory	- 2				-		
Bearing	g type			A	nti-frictio	n ball				Ace	cessory	- 3				-		
DE / N	DE bearii	ng		63	22 C3/6	322 C3			Terr	ninal b	ox posit	ion				TOP		
Lubrica	ation me	thod			Regrease	ble			Max	kimum	cable si	ze/cond	uit size	1R	x 3C x 3	00mm²/4 x	M63 x 1.5	
Type of	f grease			CHEVRO	ON SRI-2 o	r Equival	ent		Aux	iliary te	erminal	box				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

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-15

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 chan	ge. There may be slight	variations between calculat	ed values in this datashe	eet and the motor na	ameplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC:60034-30-1		-	GEMS 2019	-	IEC:60034-30-1

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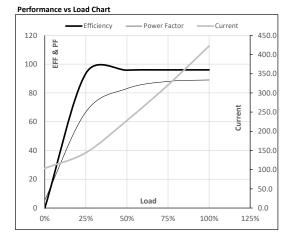


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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	250	335	422.3	1490	163.29	1601.30	IE3	40	S1	1000	8.4434	1742

Motor Load Data

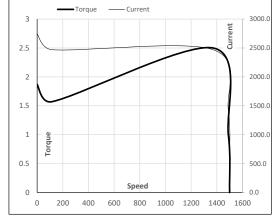
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	103.5	144.3	228.2	320.6	422.3	
Torque	Nm	0.0	398.3	797.8	1198.7	1601.3	
Speed	r/min	1500	1498	1495	1493	1490	
Efficiency	%	0.0	93.6	95.8	96.0	96.0	
Power Factor	%	5.5	66.8	83.0	88.0	89.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	115	1371	1490	1500	
Current	А	2745.2	2470.7	1420.8	422.3	103.5	
Torque	pu	1.9	1.6	2.5	1	0	

Starting Characteristics Chart



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

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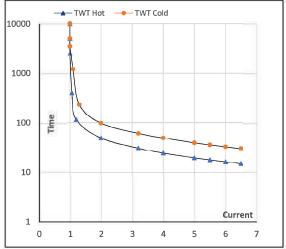
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Г	Enclosure	U	Δ/Υ	f	Р	Р	I.	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
	TEFC	400	Δ	50	250	335.0	422.3	1490	163.29	1601.30	IE3	40	S1	1000	8.4434	1742

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	s	10000	49	33	25	20	18	15
TWT Cold	S	10000	98	70	49	39	36	30
Current	pu	1	2	3	4	5	5.5	6.5

Thermal Characteristics Chart



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

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