PRODUCT INFORMATION PACKET

Model No: TCA2502A1131GAC010 Catalog No: TCA2502A1131GAC010 TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 355M Frame, TEFC



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Motors

Product Information Packet: Model No: TCA2502A1131GAC010, Catalog No:TCA2502A1131GAC010 TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 355M Frame, TEFC

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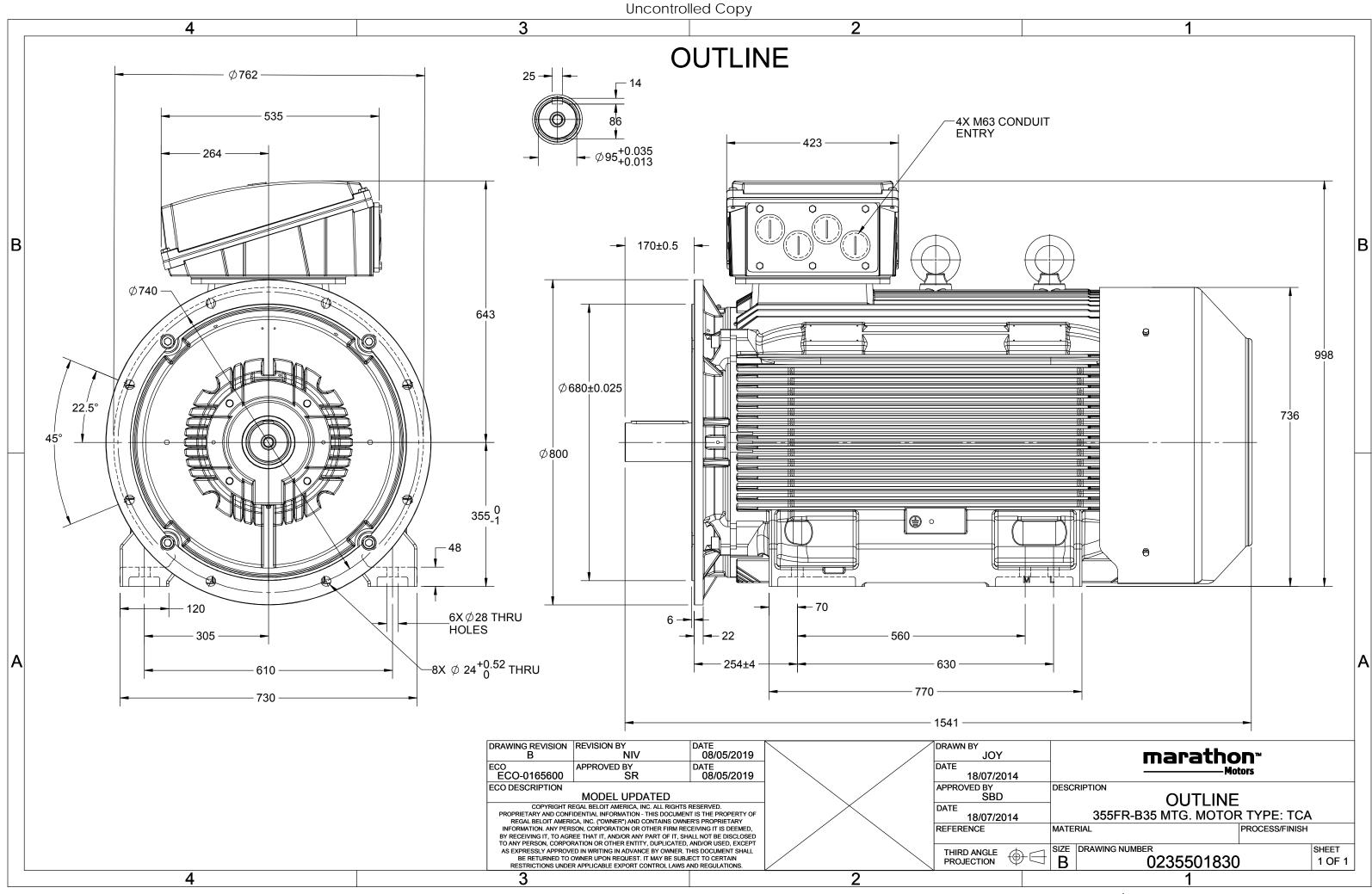
Nameplate Specifications

Output HP	335 Hp	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 Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
UL	No	CSA	No
CE	Yes	IP Code	55
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
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		
Connection Drawing	8442000085	Outline Drawing	0235501830

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TerraMAX[®]

Model No. TCA2502A1131GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	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				TCA				Deg	ree of	protecti	on				IP 55		
Enclosu	ire				TEFC				Mo	unting	type					IM B35		
Frame I	Materia	I			Cast Irc				Coc	ling me	ethod					IC 411		
Frame	size				355M				Mo	tor wei	ght - ap	prox.				1776		kg
Duty	,						Gro	ss weig	ght - app	rox.	1821			kg				
Voltage	e variatio	on *			± 10%	± 10%				Motor inertia						8.4434		
Freque	equency variation * ± 5%					Loa	d inerti	а				Custo	omer to Prov	ide				
Combir	nbined variation * 10%					Vib	ration l	evel					2.8		mm/s			
Design					Ν				Noi	Noise level (1meter distance from motor)					.)	82		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F				Star	ting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling				Direct			
Temper	rature ri	se (by i	resistance	e)	80 [Class	B]		К	LR v	LR withstand time (hot/cold)						15/30		
Altitude	e above	sea lev	el		1000			meter	Dire	ection o	of rotation	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Star	ndard r	otation				Cloc	ckwise form [DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temper	ature o	class		NA					Ace	cessory -	· 1				PTC 150°C		
Rotor t	otor type Aluminum Die cast						Accessory - 2					-						
Bearing	g type			A	nti-frictio	n ball				Ace	cessory -	- 3				-		
DE / ND	DE beari	ng		632	22 C3/63	322 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod			Regreasa	ble			Ma	kimum	cable si	ze/cond	uit size	1R	x 3C x 3	00mm²/4 x N	∕I63 x 1.5	
Type of	grease		C	HEVRC	ON SRI-2 o	r Equival	ent		Aux	iliary te	erminal	box				NA		

 I_A/I_N - Locked Rotor Current / Rated Current

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

 $\rm T_A/T_N$ - 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 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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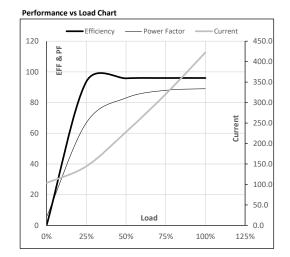


Model No. TCA2502A1131GAC010

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	250	335	422.3	1490	163.29	1601.30	IE3	40	S1	1000	8.4434	1776

Motor Load Data

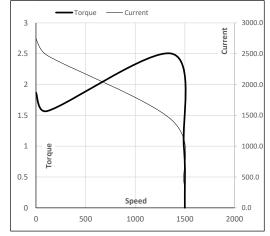
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	103.5	144.3	228.2	320.6	422.3	
Torque	Nm	0.0	398.3	797.8	1198.7	1601.3	
Speed	r/min	1500	1498	1495	1493	1490	
Efficiency	%	0.0	93.6	95.8	96.0	96.0	
Power Factor	%	5.5	66.8	83.0	88.0	89.0	



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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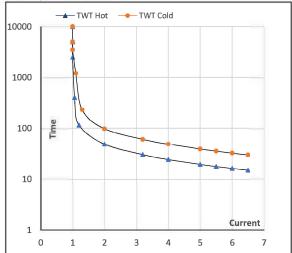
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	250	335.0	422.3	1490	163.29	1601.30	IE3	40	S1	1000	8.4434	1776

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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