PRODUCT INFORMATION PACKET

Model No: TCA0114A1111GAC010 Catalog No: TCA0114A1111GAC010 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 180L Frame, TEFC



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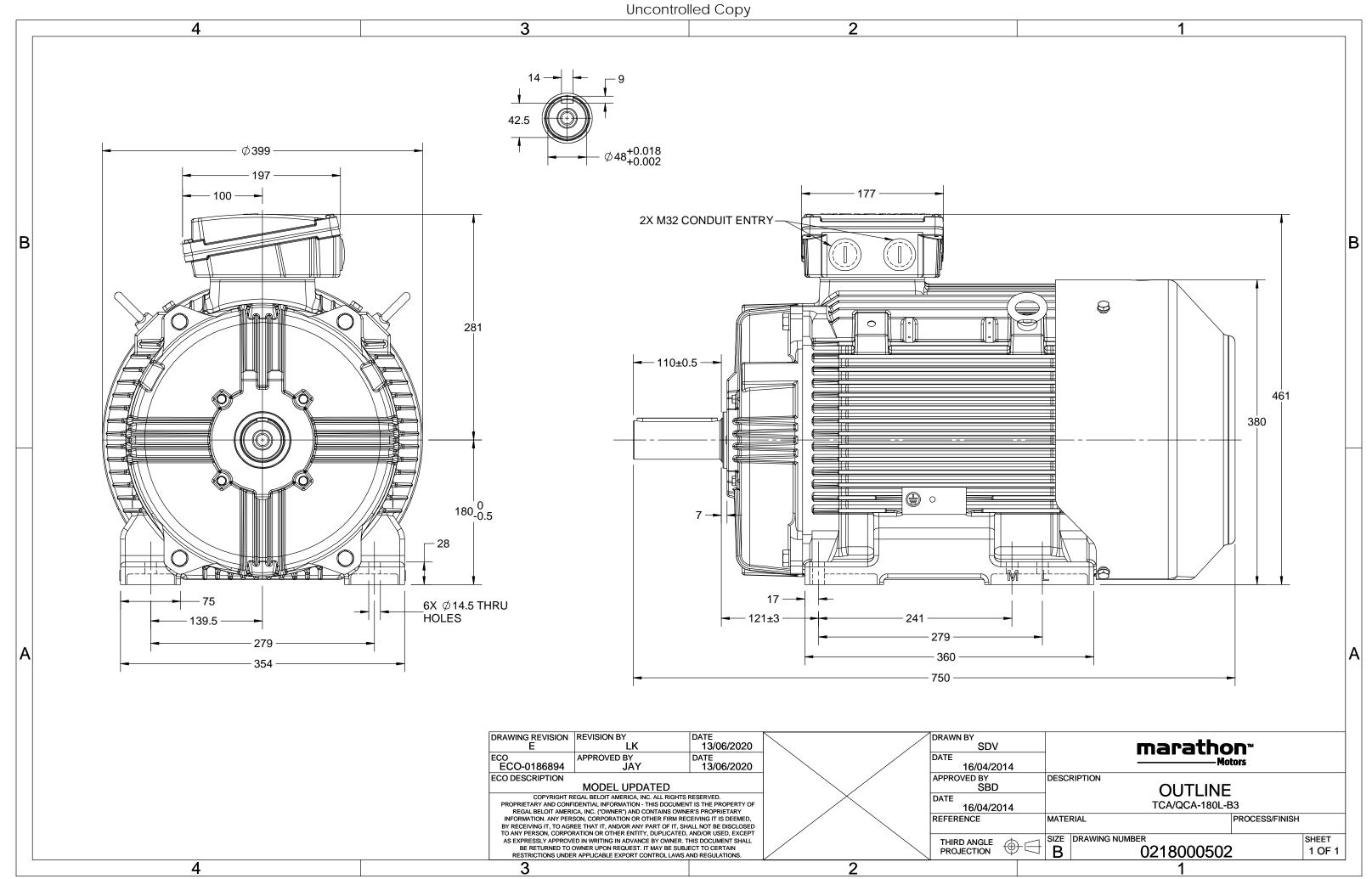
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	24.6 A	Speed	730 rpm		
Service Factor	1	Phase	3		
Efficiency	88.6 %	Power Factor	0.73		
Duty	S1	Insulation Class	F		
Frame	180L	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	180L 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 6311	Ambient Temperature Opp Drive End Bearing Size	40 °C 6211		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	750 mm	Frame Length	366 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0218000502	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t loa	t	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	11	15	24.5	730	146.51	IE3	-	88.6	88.6	89.5	0.73	0.66	0.53	6.5	1.8	3.0
Motor	type				TCA				De	gree of	orotecti	on				IP 55		
Enclosu					TEFC					ounting						IM B3		
Frame	Materia	I			Cast Irc	n				oling me						IC 411		
Frame	size				180L				Мс	otor wei	ght - ap	prox.				229		kg
Duty	\$1							Gro	oss weig	ht - app	rox.				249		kg	
Voltage	e variatio	on *			± 10%				Motor inertia							0.3337		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	ad inerti	а				Custo	omer to Pro	ovide	
Combir	ned varia	ation *			10%				Vib	Vibration level						2.2		
Design					Ν				No	Noise level (1meter distance from motor					.)	60		dB(A)
Service	factor				1.0				No	No. of starts hot/cold/Equally spread					2/3/4			
Insulati	ion class				F				Sta	irting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	be of co	upling				Direct			
Tempe	rature ri	se (by i	resistanc	e)	80 [Class	B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		s
Altitud	e above	sea lev	el		1000			meter	Dir	ection c	of rotation	on			В	i-direction	al	
Hazard	ous area	a classif	ication		NA				Sta	indard r	otation				Cloc	kwise form	n DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Aco	cessorie	s							
	Temper	ature o	class		NA					Aco	essory	- 1				PTC 150°C		
Rotor t	уре			Alu	uminum d	ie cast				Aco	essory	- 2			-			
Bearing	g type			A	nti-frictio	n ball				Aco	essory	- 3				-		
DE / N	DE beari	ng		633	11-2Z / 6	211-2Z			Ter	rminal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	ireased fo	r life			Ma	iximum	cable si	ze/cond	uit size	1R	x 3C x 3	35mm²/2 X	M32 x 1.5	
Type of	f grease				NA				Au	xiliary te	erminal	box				NA		

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

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

 $\rm T_A/\rm T_N$ - 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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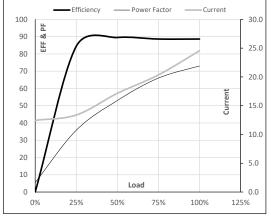
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15.0	24.5	730	14.94	146.51	IE3	40	S1	1000	0.3337	229

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	12.5	13.4	17.2	20.3	24.5	
Torque	Nm	0.0	35.9	72.2	109.1	146.5	
Speed	r/min	750	745	741	736	730	
Efficiency	%	0.0	84.4	89.5	88.6	88.6	
Power Factor	%	5.5	35.8	53.0	66.0	73.0	

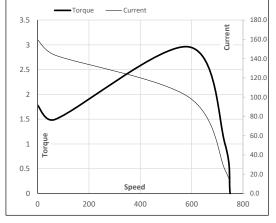
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	68	588	730	750	
Current	А	159.6	143.6	100.1	24.5	12.5	
Torque	pu	1.8	1.5	3.0	1	0	

Starting Characteristics Chart



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

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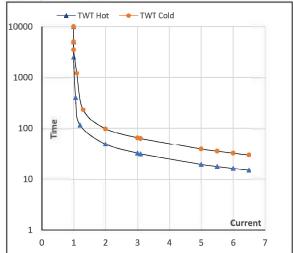
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15.0	24.5	730	14.94	146.51	IE3	40	S1	1000	0.3337	229

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	I ₄	۱ ₅	LR
TWT Hot	s	10000	49	33	24	20	18	15
TWT Cold	s	10000	98	65	57	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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