PRODUCT INFORMATION PACKET

Model No: TCE0114A2111GAA001 Catalog No: TCE0114A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 15 HP, 3 Ph, 50 Hz, 400 V, 730 RPM, 180L Frame



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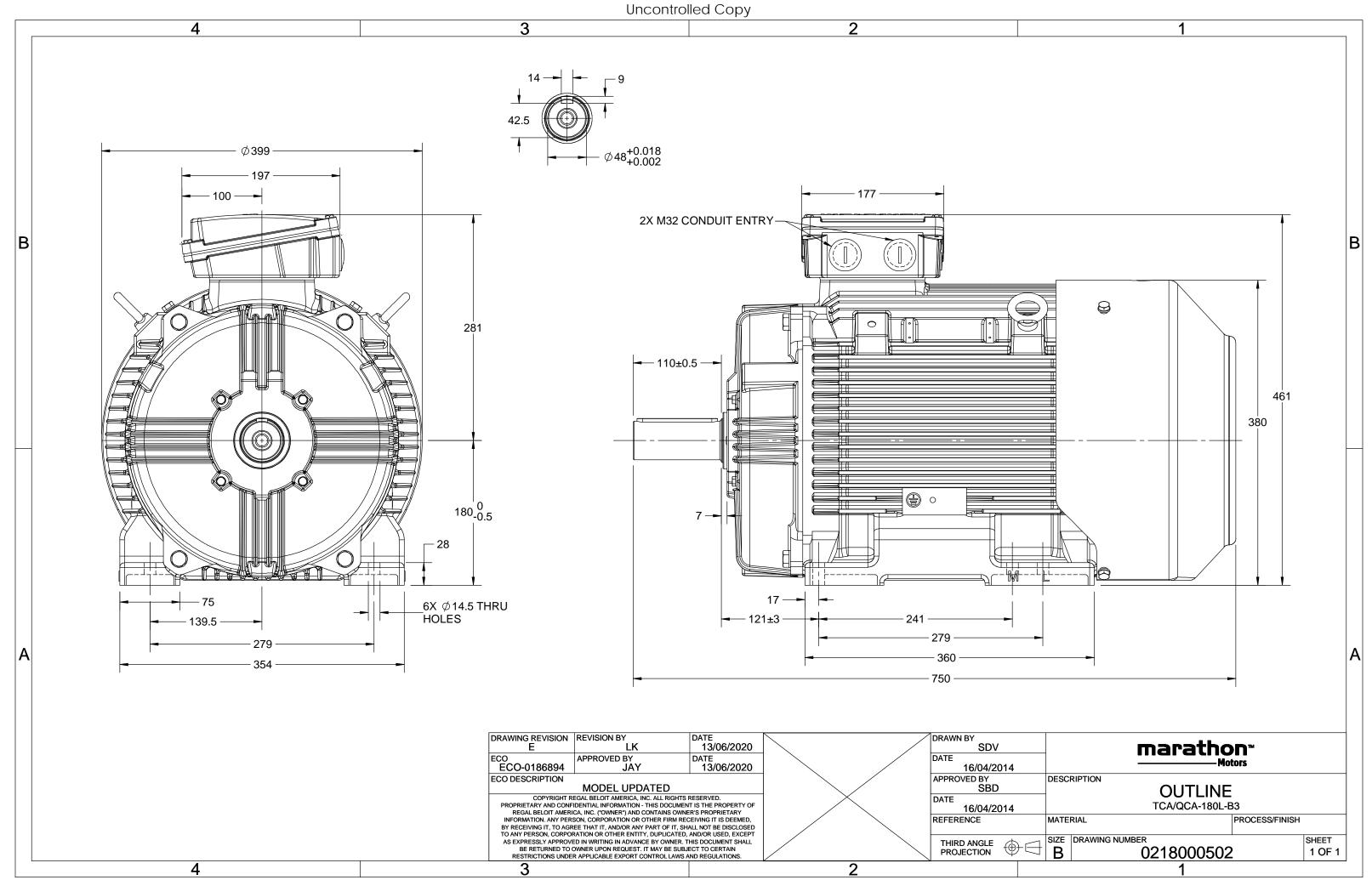
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	24.5 A	Speed	730 rpm
Service Factor	1	Phase	3
Efficiency	88.6 %	Power Factor	0.7
Duty	S1	Insulation Class	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
UL	No	CSA	No
CE	Yes	IP Code	IP55

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	48.000 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0218000502

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Model No. TCE0114A2111GAA001

U	Δ / Y	f	Р	Р	Ι	n	Т	IE	9	6 EFF a	t loa	d	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	15.0	24.5	730	146.51	IE3	-	88.6	88.6	89.4	0.73	0.66	0.53	6.5	1.8	3.0
Motort					TCE			1	Dec	trop of	protoct	ion				I IP 55		
Motor t Enclosu					TEFC					unting	protect	ion				IM B3		
Frame N					Cast Ire					unting pling me						IC 411		
Frame s		1			180					•	ght - ap	nrov				229		kg
Duty	5120				S1						• .	•				249		∿g kg
	age variation * ± 10%					Gross weight - approx. Motor inertia						0.3337						
	ncy variation * ± 5%					Load inertia						0.3337 kgm Customer to Provide						
	ed variation * 10%					Vibration level						2.2						
Design		N					Noise level (1meter distance from motor)					r)	60		mm/s dB(A)			
Service	factor				1.0					No. of starts hot/cold/Equally spread					•)	2/3/4		
Insulatio					F					Starting method						DOL		
Ambien	it tempe	erature	•		-15 to +	40		°C		e of co						Direct		
Temper				ce)	70 [Clas	s B 1		К		ime						20		s
Altitude		• •		,	1000	-		meter	Dire	ection o	of rotati	on			В	i-directional		
Hazardo	ous area	a classif	fication		Ex eb	1			Sta	Standard rotation						Clockwise form DE		
	Zone cla	assifica	tion		Zone	1			Pair	nt shad	e					RAL 7016		
	Gas gro	up			IIC				Acc	essorie	S							
	Temper	ature	class		Т3					Aco	cessory	- 1				PTC 150°C		
Rotor ty	/pe			Alu	ıminum c	ie cast				Accessory - 2					-			
Bearing	type			Anti-f	riction ba	ll bearing				Accessory - 3					-			
DE / ND	E beari	ng		631	11-2Z / 6	5211-2Z			Ter	minal b	ox posi	tion				TOP		
Lubricat	tion me	thod		G	ireased fo	or life			Ma	Maximum cable size/conduit size 1R x					1R x 3C x 35mm²/2 X M32 x 1.5			
Type of	grease				NA				Aux	ciliary to	erminal	box				NA		

 $\rm I_A/\rm I_N$ - Locked Rotor Current / Rated Current

 $T_{\text{A}}/T_{\text{N}}$ - Locked Rotor Torque / Rated Torque

NOTE

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-7

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	ata are subject to chan	ge. There may be slight	variations between calculated	I values in this datash	eet and the motor na	meplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC:60034-30-1		-	-	-	IEC:60034-30-1



 T_{K}/T_{N} - Breakdown Torque / Rated Torque

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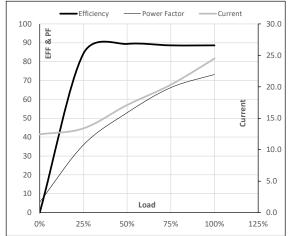
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	24.5	730	14.94	146.51	IE3	40	S1	1000	0.3337	229

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	12.5	13.4	17.1	20.3	24.5	
Torque	Nm	0.0	48.7	97.9	147.9	146.5	
Speed	r/min	750	745	741	736	730	
Efficiency	%	0.0	84.3	89.4	88.6	88.6	
Power Factor	%	5.5	35.9	52.9	66.2	73.2	

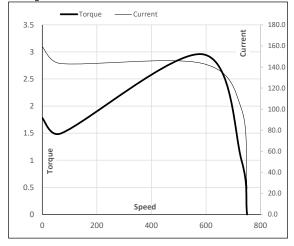
Performance vs Load Chart



Motor Speed Torque Data

motor opec.	a loique But						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	68	588	730	750	
Current	А	159.2	143.3	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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