PRODUCT INFORMATION PACKET

Model No: TCE0221A2111GAA001 Catalog No: TCE0221A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 30 HP, 3 Ph, 50 Hz, 400 V, 2963 RPM, 180M Frame



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Motors

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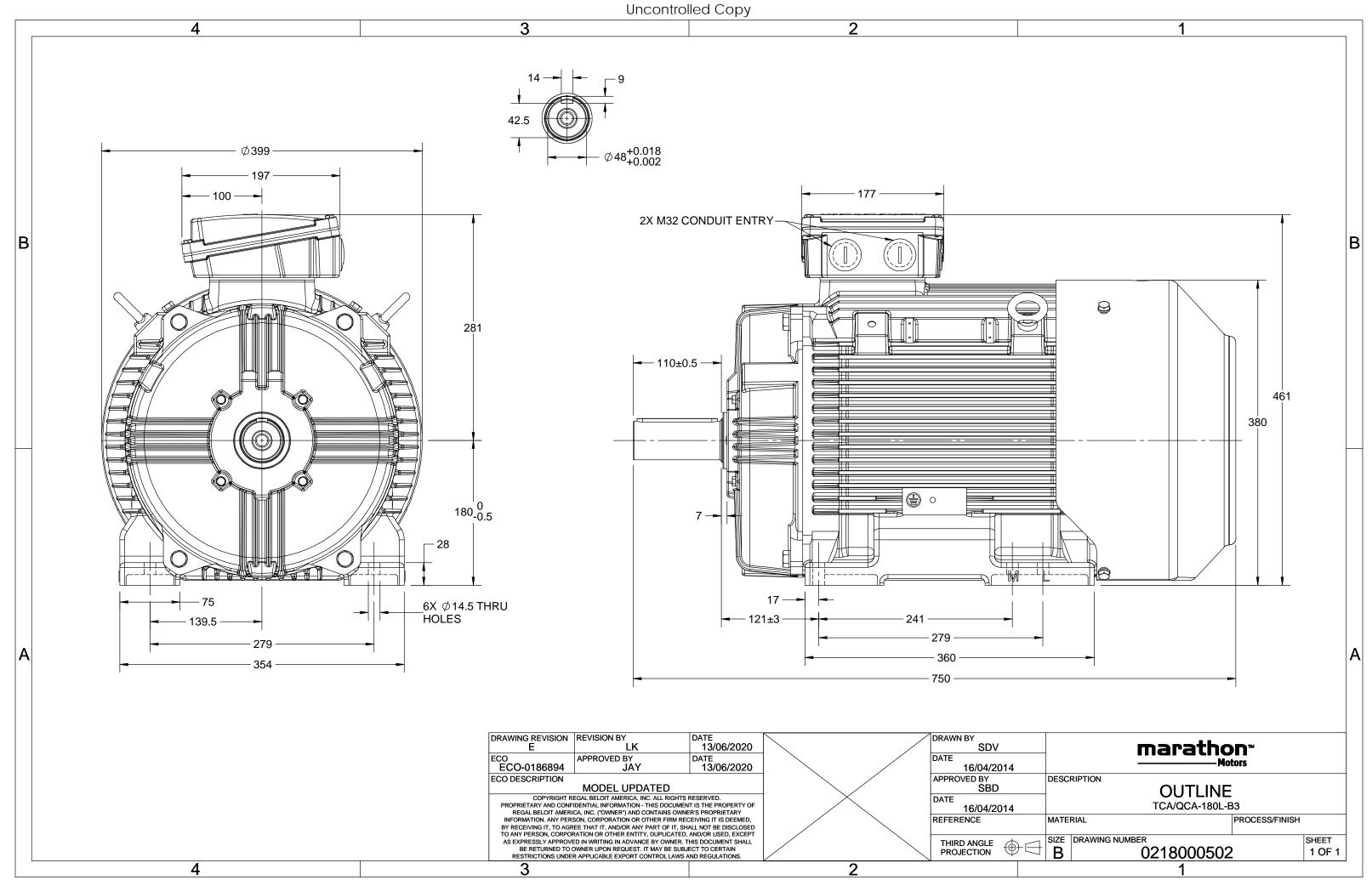
Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW
Frequency	50 Hz	Voltage	400 V
Current	39.5 A	Speed	2963 rpm
Service Factor	1	Phase	3
Efficiency	92.7 %	Power Factor	0.87
Duty	S1	Insulation Class	F
Frame	180M	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
Number of Speeds	3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	328 mm
Shaft Diameter	48.000 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0218000502	Connection Drawing	8442000085

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Model No. TCE0221A2111GAA001

U	Δ / Y	f	Р	Р	I	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	22	30.0	39.5	2963	72.10	IE3	-	92.7	92.7	91.6	0.87	0.82	0.72	7.8	2.4	3.9
Motor	typo				TCE				Dor	trop of	protect	ion				IP 55		
Enclosi					TEFC				-	unting	•	1011				IM B3		
	Materia				Cast Ir	-				oling m						IC 411		
Frame		1			180N					•	ght - ap	nrov				220		kg
Duty	3120				100N S1	1					• .					240		kg
,	e variati	on *			± 109	6				Gross weight - approx. Motor inertia					0.1543			
	ncy vari				± 5%	-				Load inertia				Cust	Customer to Provide			
	ned varia				10%				Vibration level				cust	2.2	L	mm/s		
Design					1070 N							er dista	nce fro	m moto	r)	72		dB(A)
Service					1.0						ts hot/c				• /	2/3/4		00(//)
	ion class				F					rting m		Joid/ Eqt	any spi	cuu		DOL		
	nt temp		5		-15 to +	-40		°C		e of co						Direct		
	rature ri			ce)	70 [Clas			К	. 7 P	ime	up8					15		S
	e above	• •		00)	1000	-		meter			of rotati	on			В	li-directional		5
	lous area				Ex et)					otation				Cloc	ckwise form DE		
	Zone cl	assifica	tion		Zone	2			Pai	nt shad	e					RAL 7016		
	Gas gro	an			IIC				Acc	essorie	S							
	Temper	-	class		Т3					Aco	cessory	- 1				PTC 150°C		
Rotor t	vpe			Alı	uminum I	Die cast				Aco	cessory	- 2				-		
Bearing	g type			А	nti-frictio	on ball				Aco	cessory	- 3				-		
	DE beari	ng		631	1-2Z /	6211-2Z			Ter	minal b	, ox posi	tion				TOP		
	ation me	0			ireased fo						cable si		luit size	e 1R	x 3C x 3	35mm²/2 X M3	2 x 1.5	
Type o	f grease				NA						erminal					NA		

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

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

 $T_{\text{A}}/T_{\text{N}}$ - 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



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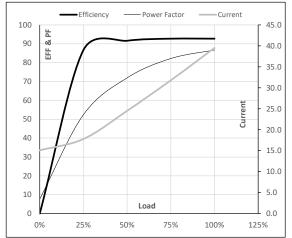
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	22	30	39.5	2963	7.35	72.10	IE3	40	S1	1000	0.1543	220

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	15.1	17.8	24.5	31.8	39.5	
Torque	Nm	0.0	24.2	48.6	73.0	72.1	
Speed	r/min	3000	2991	2982	2973	2963	
Efficiency	%	0.0	86.7	91.6	92.7	92.7	
Power Factor	%	7.7	52.4	72.0	82.2	86.7	

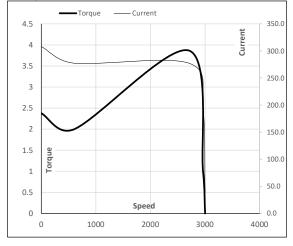
Performance vs Load Chart



Motor Speed Torque Data

motor opect	a ronque But										
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	600	2704	2963	3000					
Current	А	308.2	277.4	192.5	39.5	15.1					
Torque	pu	2.4	2.0	3.9	1	0					

Starting Characteristics Chart



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

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