PRODUCT INFORMATION PACKET

Model No: TCE0301A2111GAA001 Catalog No: TCE0301A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 40 HP, 3 Ph, 50 Hz, 400 V, 2974 RPM, 200L Frame



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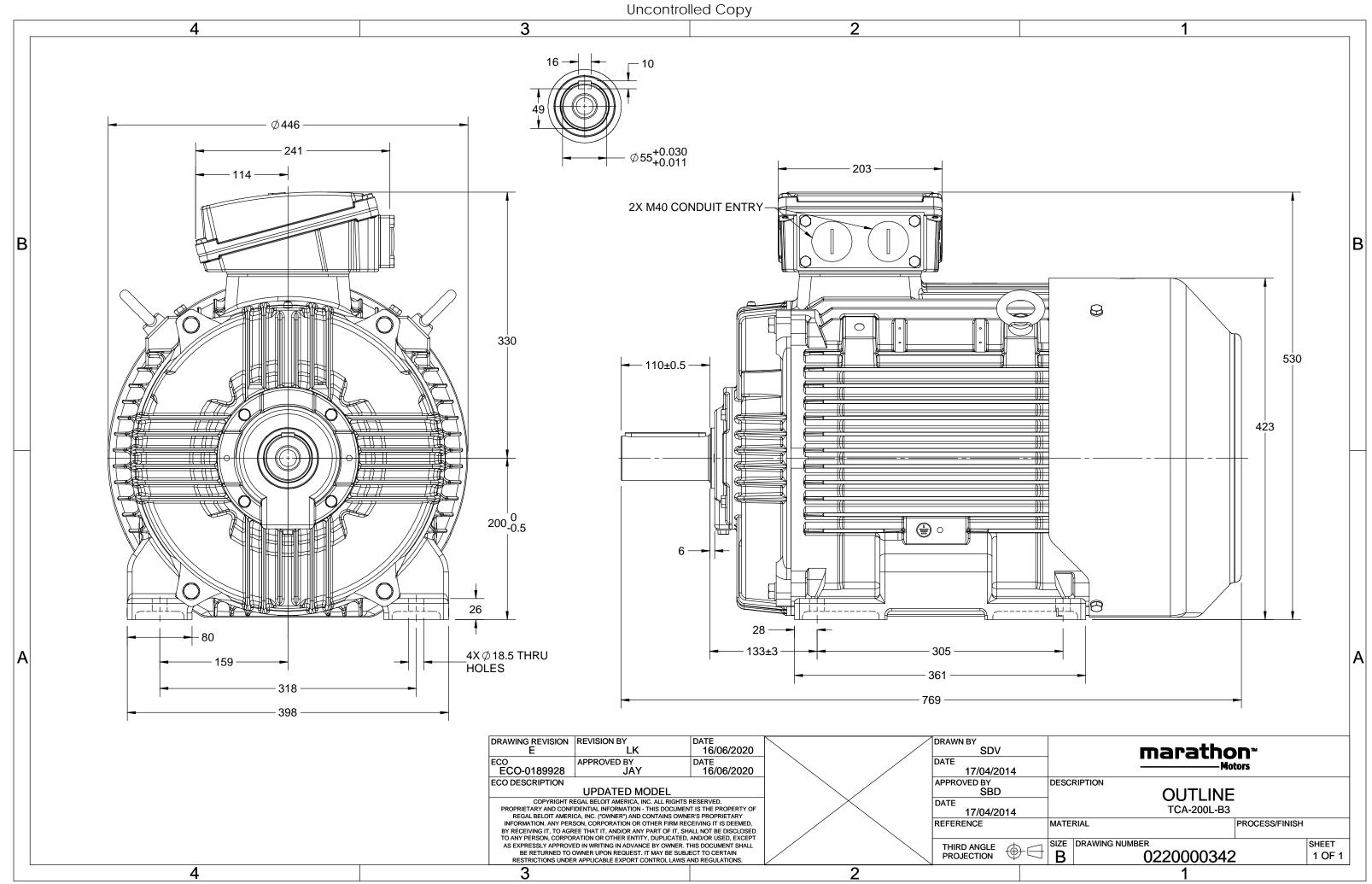
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400 V
Current	55.0 A	Speed	2974 rpm
Service Factor	1	Phase	3
Efficiency	93.3 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	200L 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 6312	Ambient Temperature Opp Drive End Bearing Size	40 °C 6212

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	ВЗ	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55.000 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0220000342

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% 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	30	40.0	55.0	2974	95.80	IE3	-	93.3	93.3	91.9	0.84	0.79	0.68	7.6	2.3	3.8
Motor	type				TCE				Deg	gree of	protect	ion				IP 55		
Enclos	ure				TEFC	2			Mo	unting	type					IM B3		
Frame	Materia	d i			Cast Ir	on			Cod	oling m	ethod					IC 411		
Frame	size				2001				Mo	tor wei	ight - ap	prox.				284		kg
Duty					S1				Gro	oss weig	ght - app	orox.				314		kg
Voltag	e variati	on *			± 10%	6			Mo	tor ine	rtia					0.2619		kgm ²
Freque	ency vari	ation *			± 5%				Loa	id inert	ia				Custo	omer to Provid	е	
Combi	ned vari	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				No	ise leve	l (1met	er dista	nce fro	m moto	r)	73		dB(A)
Service	factor				1.0				No	of star	rts hot/o	cold/Equ	ually spi	read		2/3/4		
Insulat	ion class	5			F				Sta	rting m	ethod					DOL		
Ambie	nt temp	erature	2		-15 to +	-40		°C	Тур	e of co	upling					Direct		
Tempe	rature r	ise (by	resistan	ce)	70 [Clas	s B]		К	tE t	ime						20		S
Altitud	e above	sea lev	/el		1000)		meter	Dir	ection o	of rotati	on			В	i-directional		
Hazard	lous area	a classi	fication		Ex eb)			Sta	ndard r	otation				Cloc	ckwise form DE		
	Zone cl	assifica	tion		Zone	2			Pai	nt shad	le					RAL 7016		
	Gas gro	oup			IIC				Acc	essorie	es							
	Temper	rature o	class		Т3					Ac	cessory	- 1				PTC 150°C		
Rotor t	уре			Alu	uminum I	Die cast				Ace	cessory	- 2				-		
Bearin	g type			A	nti-frictio	on ball				Ac	cessory	- 3				-		
DE / N	DE beari	ng		63	12 C3/6	212 C3			Ter	minal b	oox posi	tion				TOP		
Lubrica	ation me	thod			Regreas	able			Ma	ximum	cable si	ze/cond	luit size	1R	x 3C x 5	50mm²/2 x M40) x 1.5	
Туре о	f grease		(CHEVRC	ON SRI-2 d	or Equivale	ent		Aux	kiliary t	erminal	box				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 v	variations between calculated	l 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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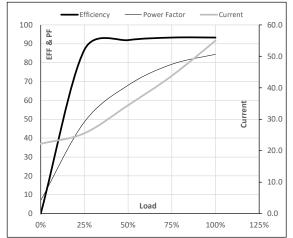
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nn [Hz] [kW] [hp] [A] [RPM] [kgm] [Nm] Class [°C] [m] [kg-m ²]	[kg]
Δ 50 30 40 55.0 2974 9.77 95.80 IE3 40 S1 1000 0.2619	284
Δ 50 30 40 55.0 2974 9.77 95.80 IE3 40 S1 1000 0.2619	

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	22.2	25.6	34.5	43.8	55.0	
Torque	Nm	0.0	32.3	64.7	97.2	95.8	
Speed	r/min	3000	2993	2987	2980	2974	
Efficiency	%	0.0	86.8	91.9	93.3	93.3	
Power Factor	%	7.0	48.6	68.0	79.1	84.4	

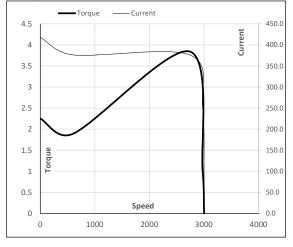
Performance vs Load Chart



Motor Speed Torque Data

motor speed										
Load Point		LR	P-Up	BD	Rated	NL				
Speed	r/min	0	600	2736	2974	3000				
Current	А	418.0	376.2	250.0	55.0	22.2				
Torque	pu	2.3	1.9	3.8	1	0				

Starting Characteristics Chart



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

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