PRODUCT INFORMATION PACKET

Model No: TCE0752A2111GAA001 Catalog No: TCE0752A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 100 HP, 3 Ph, 50 Hz, 400 V, 1489 RPM, 280S Frame



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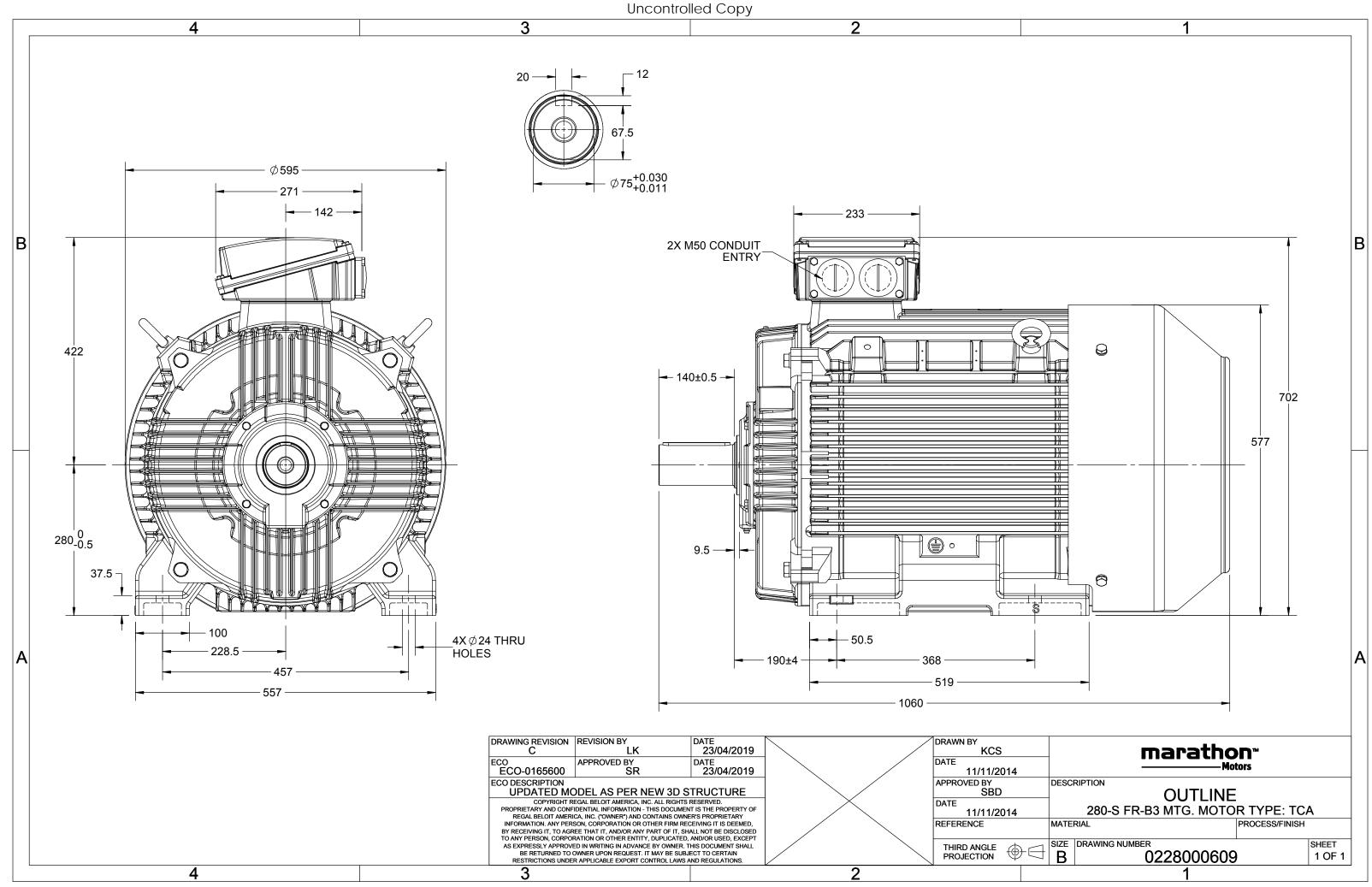
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	50 Hz	Voltage	400 V
Current	131.6 A	Speed	1489 rpm
Service Factor	1	Phase	3
Efficiency	95 %	Power Factor	0.87
Duty	S1	Insulation Class	F
Frame	280S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6317	Opp Drive End Bearing Size	6317
UL	No	CSA	No
CE	Yes	IP Code	IP55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	1060 mm	Frame Length	549 mm
Shaft Diameter	65.000 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0228000609

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Model No. TCE0752A2111GAA001

U	Δ / Y	f	Р	Р	Ι	n	Т	IE	ģ	% EFF a	it 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	75	100.0	131.6	1489	478.13	IE3	-	95	95	94.3	0.87	0.84	0.76	6.3	2.3	2.8
Motor	type				TCE				Deg	gree of	protect	ion				IP 55		
Enclosu	ire				TEFC				Мо	unting	type					IM B3		
Frame	Materia	ıl			Cast Iro	on			Coo	oling m	ethod					IC 411		
Frame						Мо	tor we	ight - ap	prox.				754		kg			
Duty					S1				Gro	ss wei	ght - app	orox.				789		kg
Voltage	e variati	on *			± 10%	6			Мо	tor ine	rtia					2.4153		kgm ²
Freque	ncy vari	ation *			± 5%				Loa	d inert	ia				Custo	omer to Provi	de	
Combir	ned vari	ation *			10%				Vib	ration	level					2.2		mm/s
Design					Ν				Noi	se leve	el (1met	er dista	nce fro	m moto	r)	68		dB(A)
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulati	ion class	5			F				Sta	rting m	nethod					DOL		
Ambier	nt temp	erature	9		-15 to +	40		°C	Тур	e of co	oupling					Direct		
Tempe	rature r	ise (by	resistan	nce)	70 [Clas	s B]		К	tE t	ime						20		S
Altitud	e above	sea lev	vel		1000			meter	Dire	ection	of rotati	on			В	i-directional		
Hazard	ous area	a classi	fication		Ex eb)			Sta	ndard	rotation				Cloc	ckwise form D	E	
	Zone cl	assifica	ition		Zone	1			Pai	nt shac	le					RAL 7016		
	Gas gro	oup			IIC				Acc	essorie	es							
	Temper	rature o	class		Т3					Ac	cessory	- 1				PTC 150°C		
Rotor t	ype			Alu	uminum E	Die cast				Ac	cessory	- 2				-		
Bearing	g type			A	nti-frictic	n ball				Ac	cessory	- 3				-		
DE / NE	DE beari	ng		633	L7 C3/6	317 C3			Ter	minal l	oox posi	tion				TOP		
Lubrica	tion me	thod			Regrease	able			Ma	ximum	cable si	ze/con	duit size	e 1R	x 3C x 9	95mm²/2 x M	50 x 1.5	
Type of	f grease			CHEVRO	N SRI-2 c	or Equival	ent		Aux	kiliary t	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 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



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

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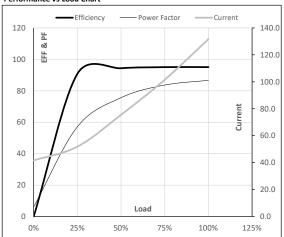


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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	75	100	131.6	1489	48.76	478.13	IE3	40	S1	1000	2.4153	754

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	41.6	51.9	75.5	101.5	131.6	
Torque	Nm	0.0	161.2	322.9	485.3	478.1	
Speed	r/min	1500	1497	1495	1492	1489	
Efficiency	%	0.0	90.8	94.3	95.0	95.0	
Power Factor	%	6.1	57.1	75.6	83.6	86.6	

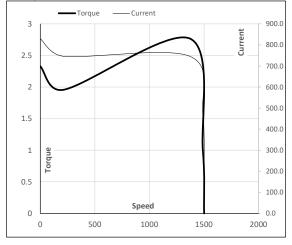


Performance vs Load Chart

Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL				
Speed	r/min	0	214	1370	1489	1500				
Current	А	829.2	746.3	466.9	131.6	41.6				
Torque	pu	2.3	2.0	2.8	1	0				

Starting Characteristics Chart



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

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