PRODUCT INFORMATION PACKET

Model No: TCE0551A2111GAA001 Catalog No: TCE0551A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 75 HP, 3 Ph, 50 Hz, 400 V, 2980 RPM, 250M Frame



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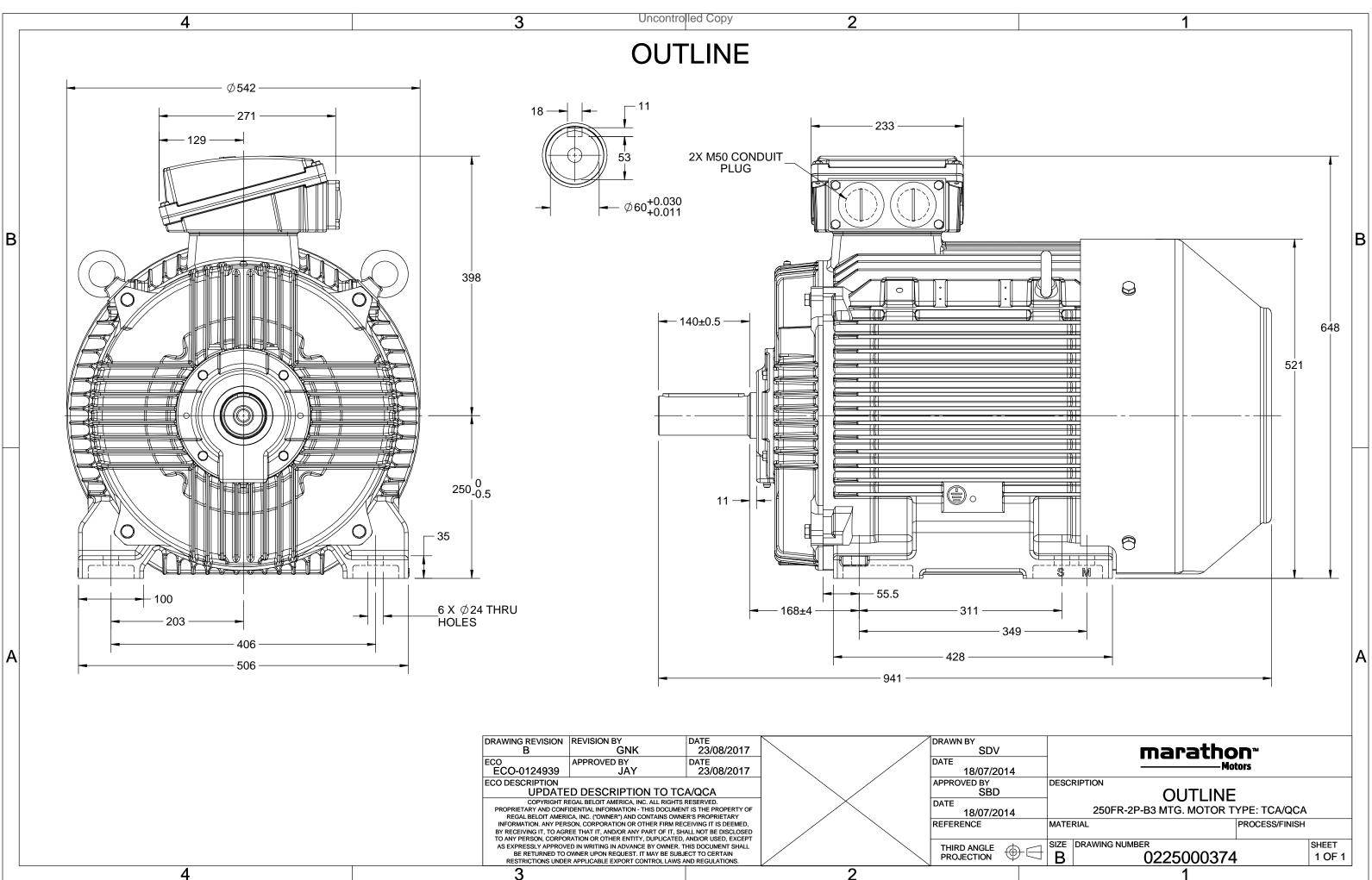
Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	400 V
Current	94.8 A	Speed	2980 rpm
Service Factor	1	Phase	3
Efficiency	94.3 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
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	941 mm	Frame Length	460 mm
Shaft Diameter	60.000 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0225000374	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE	ģ	% EFF a	t loa	t	PF	at lo	bad	I _A /I _N	T_A/T_N	T _K /T _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	55	75.0	94.8	2980	179.21	IE3	-	94.3	94.3	93.5	0.89	0.86	0.77	7.4	2.0	3.7
Motor t	vne				TCE				Des	ree of	protect	ion				IP 55		
Enclosu					TEFC					unting	•					IM B3		
Frame N		al			Cast Ir					oling m						IC 411		
Frame s	size				250N	1				•	ight - ap	prox.				532		kg
Duty					S1						ght - app					567		kg
, Voltage	variati	on *			± 10%	6				tor ine						0.7030		kgm ²
Frequer					± 5%	,			Loa	d inert	ia				Custo	omer to Provi	de	
Combin	ed varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				Noi	se leve	l (1met	er dista	nce fro	m moto	r)	75		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ually spi	read		2/3/4		
Insulatio	on class	5			F				Sta	rting m	ethod					DOL		
Ambien	t temp	erature	9		-15 to +	+40		°C	Тур	e of co	upling					Direct		
Temper	ature r	ise (by	resistan	ce)	70 [Clas	s B]		К	tE t	ime						15		S
Altitude	e above	sea lev	vel		1000)		meter	Dire	ection o	of rotati	on			В	i-directional		
Hazardo	ous area	a classi	fication		Ex eb	D			Sta	ndard r	otation				Cloc	ckwise form D	E	
2	Zone cla	assifica	ition		Zone	2			Pai	nt shad	e					RAL 7016		
(Gas gro	oup			IIC				Acc	essorie	S							
-	Temper	rature o	class		Т3					Ac	cessory	- 1				PTC 150°C		
Rotor ty	/pe			Al	uminum I	Die cast				Ac	cessory	- 2				-		
Bearing	type			A	nti-frictio	on ball				Ac	cessory	- 3				-		
DE / ND	E beari	ing		63	14 C3/6	314 C3			Ter	minal b	ox posi	tion				TOP		
Lubricat	tion me	ethod			Regreas	able			Ma	ximum	cable si	ze/conc	luit size	e 1R	x 3C x 9	95mm²/2 x M	50 x 1.5	
Type of	grease			CHEVRO	ON SRI-2 d	or Equival	ent		Aux	diliary 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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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	55	75	94.8	2980	18.27	179.21	IE3	40	S1	1000	0.703	532

Motor Load Data

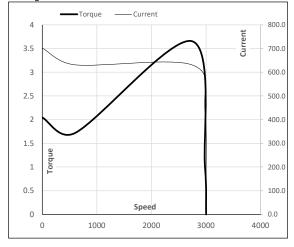
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	30.5	38.3	55.8	74.9	94.8	
Torque	Nm	0.0	60.4	121.1	181.9	179.2	
Speed	r/min	3000	2995	2990	2985	2980	
Efficiency	%	0.0	89.4	93.5	94.3	94.3	
Power Factor	%	7.4	58.9	77.5	85.6	88.8	

Performance vs Load Chart Efficiency - Power Factor -Current _ _ 100.0 120 EFF & PF 90.0 100 80.0 70.0 80 60.0 Current 60 50.0 40.0 40 30.0 20.0 20 10.0 Load 0 0.0 75% 100% 0% 25% 50% 125%

Motor Speed Torque Data

motor speed	motor specer rorque bata										
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	600	2742	2980	3000					
Current	А	701.7	631.5	436.8	94.8	30.5					
Torque	pu	2.0	1.7	3.7	1	0					

Starting Characteristics Chart



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

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