PRODUCT INFORMATION PACKET

Model No: TCE2P22A5121GAA001 Catalog No: TCE2P22A5121GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 3 HP, 3 Ph, 50 Hz, 400 V, 1462 RPM, 100L Frame



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marathon[®] Motors

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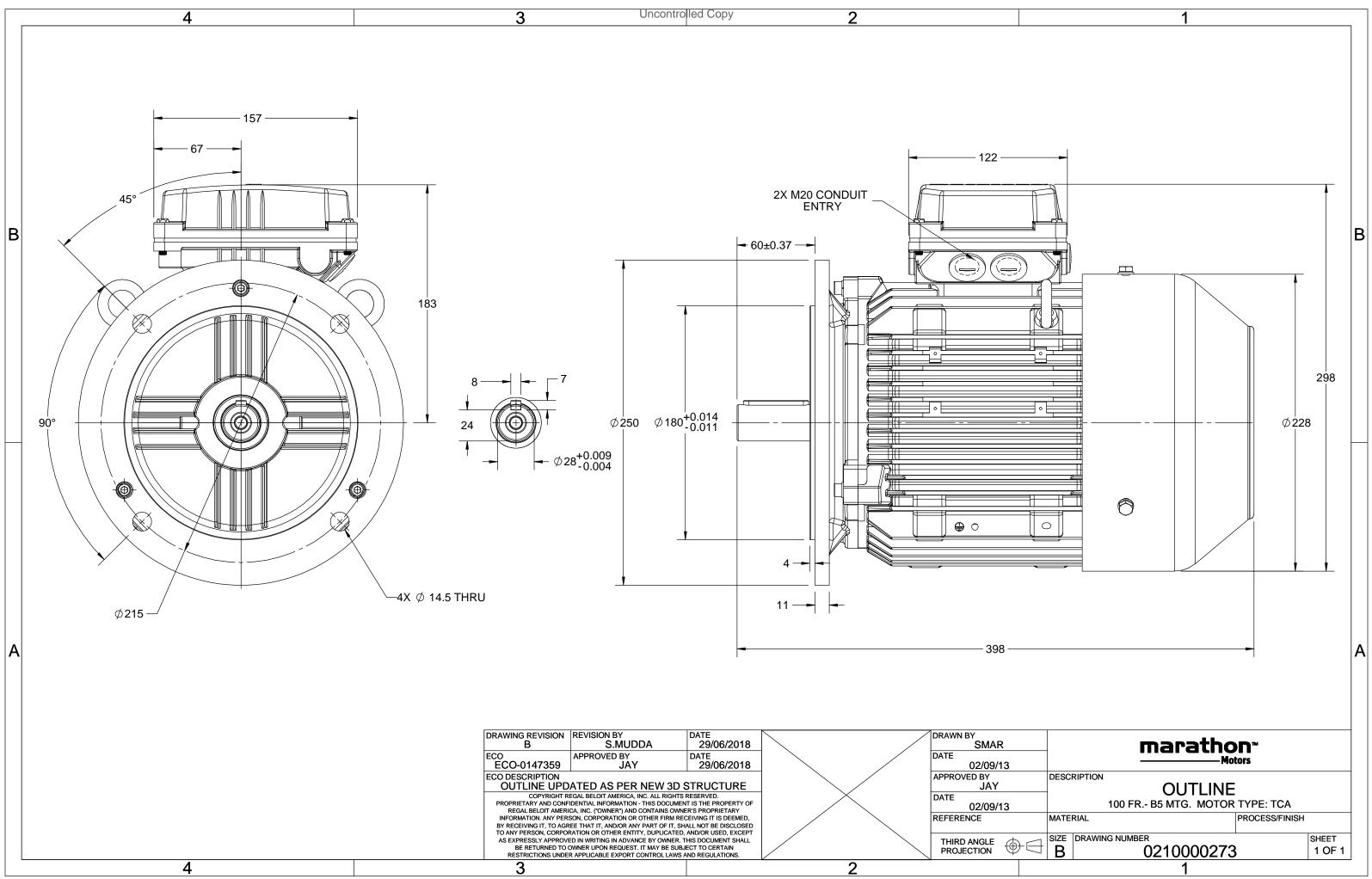
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW
Frequency	50 Hz	Voltage	400 V
Current	4.6 A	Speed	1462 rpm
Service Factor	1	Phase	3
Efficiency	86.7 %	Power Factor	0.8
Duty	S1	Insulation Class	F
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
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	4	Rotation	Bi-Directional	
Mounting	B5	Motor Orientation	Horizontal	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	398 mm	Frame Length	200 mm	
Shaft Diameter	28.000 mm	Shaft Extension	60 mm	
Assembly/Box Mounting	Тор			
Connection Drawing	8442000085	Outline Drawing	0210000273	

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kg kg kgm²

mm/s dB(A)

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Model No. TCE2P22A5121GAA001

U	Δ/Υ	f	Р	Р	1	n	т	IE	9	6 EFF a	t load	ł	PF	at lo	ad	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	Y	50	2.2	3.0	4.6	1462	14.60	IE3	-	86.7	86.7	86.1	0.80	0.72	0.59	8.2	3.1	3.7

Motor type	TCE		Degree of protection	IP 55
Enclosure	TEFC		Mounting type	IM B5
Frame Material	Cast Iron		Cooling method	IC 411
Frame size	100L		Motor weight - approx.	41
Duty	S1		Gross weight - approx.	44
Voltage variation *	± 10%		Motor inertia	0.0125
Frequency variation *	± 5%		Load inertia	Customer to Provide
Combined variation *	10%		Vibration level	1.6
Design	Ν		Noise level (1meter distance from mot	or) 55
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4
Insulation class	F		Starting method	DOL
Ambient temperature	-15 to +40	°C	Type of coupling	Direct
Temperature rise (by resistance)	70 [Class B]	К	tE time	25
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional
Hazardous area classification	Ex eb		Standard rotation	Clockwise form DE
Zone classification	Zone 1		Paint shade	RAL 7016
Gas group	IIC		Accessories	
Temperature class	Т3		Accessory - 1	PTC 150°C
Rotor type	Aluminum Die cast		Accessory - 2	-
Bearing type	Anti-friction ball		Accessory - 3	-
DE / NDE bearing	6206-2Z / 6206-2Z		Terminal box position	ТОР
Lubrication method	Greased for life		Maximum cable size/conduit size 1	R x 3C x 10mm²/2 x M20 x 1.5
Type of grease	NA		Auxiliary terminal box	NA

 I_A/I_N - Locked Rotor Current / Rated Current

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

 T_{K}/T_{N} - Breakdown 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	ta are subject to char	ge. There may be slight	variations between calculated	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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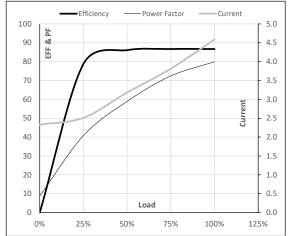
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	2.2	3	4.6	1462	1.49	14.60	IE3	40	S1	1000	0.0125	41

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.3	2.5	3.2	3.8	4.6	
Torque	Nm	0.0	4.9	9.8	14.8	14.6	
Speed	r/min	1500	1491	1482	1473	1462	
Efficiency	%	0.0	78.8	86.1	86.7	86.7	
Power Factor	%	8.8	40.8	59.0	72.4	79.9	

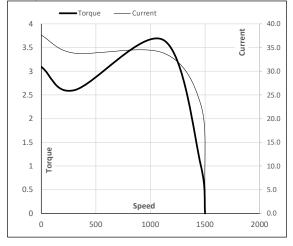
Performance vs Load Chart



Motor Speed Torque Data

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Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1121	1462	1500	
Current	А	37.6	33.8	22.9	4.6	2.3	
Torque	pu	3.1	2.6	3.7	1	0	

Starting Characteristics Chart



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

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