PRODUCT INFORMATION PACKET



Model No: TCE0031A5111GAA001 Catalog No: TCE0031A5111GAA001

TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 4 HP, 3 Ph, 50 Hz, 400 V,

2893 RPM, 100L Frame



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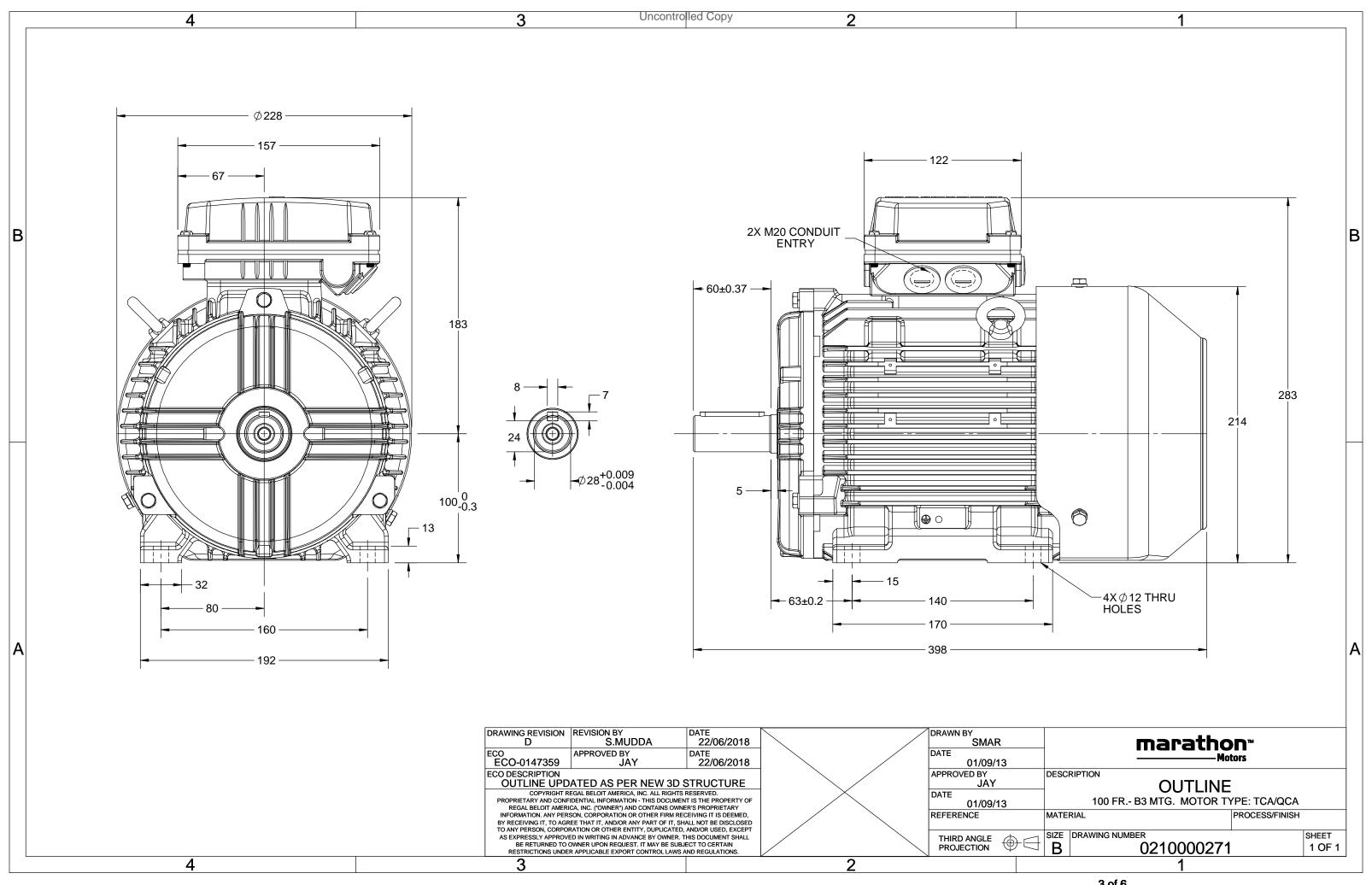
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	400 V
Current	5.5 A	Speed	2893 rpm
Service Factor	1	Phase	3
Efficiency	87.1 %	Power Factor	0.9
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	No Yes	CSA IP Code	No IP55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	В3	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		
Outline Drawing	0210000271	Connection Drawing	8442000085

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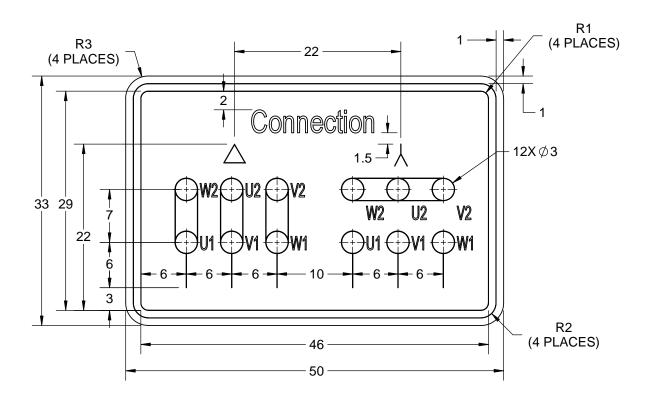


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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOMENTRIC TOLERANCE							
	>0~6	±0.1					
LINEAR DIM	>6~30	±0.2					
	>30~120	±0.3					



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







Model No. TCE0031A5111GAA001

U	Δ/Υ	f	Р	Р	ı	n	Т	IE	9	6 EFF a	t load	t	PF	at lo	oad	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	3	4.0	5.5	2893	9.84	IE3	-	87.1	87.1	84.7	0.90	0.85	0.76	8.4	3.7	4.0

Motor type	TCE		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	100L		Motor weight - approx.	41	kg
Duty	S1		Gross weight - approx.	44	kg
Voltage variation *	± 10%		Motor inertia	0.0046	kgm²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	N		Noise level (1meter distance from mot	tor) 63	dB(A)
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]	K	tE time	5	S
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	Ex eb		Standard rotation	Clockwise form DE	
Zone classification	Zone 2		Paint shade	RAL 7016	
Gas group	IIC		Accessories		
Temperature class	T3		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	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size 1	LR x 3C x 10mm ² /2 x M20 x 1.5	
Type of grease	NA		Auxiliary terminal box	NA	

 I_A/I_N - Locked Rotor Current / Rated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - 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

Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC:60034-30-1		-	-	-	IEC:60034-30-1

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^{*} Voltage, Frequency and combined variation are as per IEC60034-1





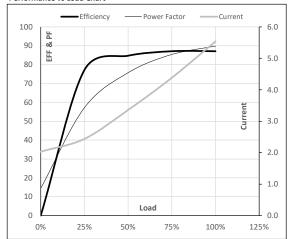
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Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	3	4	5.5	2893	1.00	9.84	IE3	40	S1	1000	0.0046	41

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	2.0	2.4	3.4	4.4	5.5	
Torque	Nm	0.0	3.3	6.5	9.9	9.8	
Speed	r/min	3000	2972	2947	2921	2893	
Efficiency	%	0.0	77.2	84.7	87.1	87.1	
Power Factor	%	14.4	57.2	75.7	85.4	89.8	

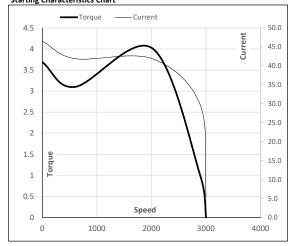
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2016	2893	3000	
Current	Α	46.5	41.9	29.7	5.5	2.0	
Torque	pu	3.7	3.1	4.0	1	0	

Starting Characteristics Chart



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

Issued By Issued Date

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