PRODUCT INFORMATION PACKET



Model No: TCE1P11A5111GAA001 Catalog No: TCE1P11A5111GAA001

TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 1.5 HP, 3 Ph, 50 Hz, 400 V,

2883 RPM, 80M Frame



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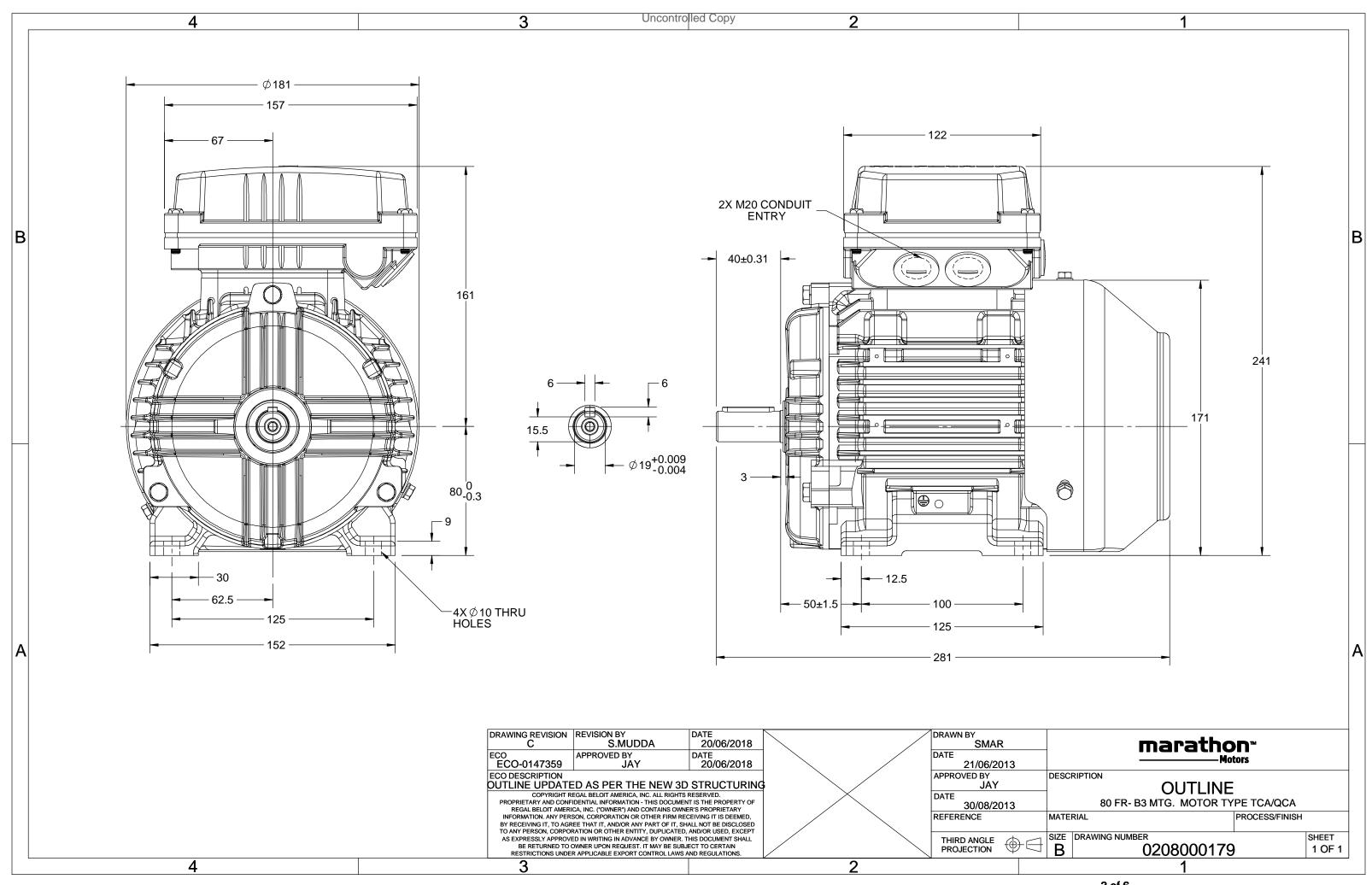
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	2.4 A	Speed	2883 rpm
Service Factor	1	Phase	3
Efficiency	82.7 %	Power Factor	0.81
Duty	S1	Insulation Class	F
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
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	281 mm	Frame Length	140 mm
Shaft Diameter	19.000 mm	Shaft Extension	40 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0208000179	Connection Drawing	8442000085

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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. TCE1P11A5111GAA001

U	Δ/Υ	f	Р	Р	Ţ	n	Т	IE	9	6 EFF a	t load	b	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	Υ	50	1.1	1.5	2.4	2883	3.70	IE3	-	82.7	82.7	80.5	0.81	0.73	0.60	7.6	4.1	4.0

Motor type	TCE		Degree
Enclosure	TEFC		Mountin
Frame Material	Cast Iron		Cooling
Frame size	80M		Motor v
Duty	S1		Gross w
Voltage variation *	± 10%		Motor i
Frequency variation *	± 5%		Load ine
Combined variation *	10%		Vibratio
Design	N		Noise le
Service factor	1.0		No. of s
Insulation class	F		Starting
Ambient temperature	-15 to +40	°C	Type of
Temperature rise (by resistance)	70 [Class B]	K	tE time
Altitude above sea level	1000	meter	Directio
Hazardous area classification	Ex eb		Standar
Zone classification	Zone 2		Paint sh
Gas group	IIC		Accesso
Temperature class	T3		,
Rotor type	Aluminum Die cast		,
Bearing type	Anti-friction ball		,
DE / NDE bearing	6204-2Z / 6204-2Z		Termina
Lubrication method	Greased for life		Maximu
Type of grease	NA		Auxilian

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	20	kg
Gross weight - approx.	21	kg
Motor inertia	0.0016	kgm ²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from motor)	56	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
tE time	20	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 7016	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size 1R x	3C x 10mm ² /2 x M20 x 1.5	
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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 $[\]ensuremath{^{*}}$ Voltage, Frequency and combined variation are as per IEC60034-1





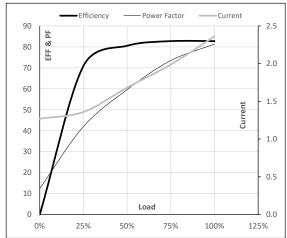
Model No. TCE1P11A5111GAA001

Enclosure	U	Δ/Υ	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	Υ	50	1.1	1	2.4	2883	0.38	3.70	IE3	40	S1	1000	0.0016	20

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	1.3	1.4	1.7	2.0	2.4	
Torque	Nm	0.0	1.2	2.5	3.7	3.7	
Speed	r/min	3000	2970	2944	2915	2883	
Efficiency	%	0.0	70.9	80.5	82.7	82.7	
Power Factor	%	12.4	42.0	59.6	73.5	81.3	

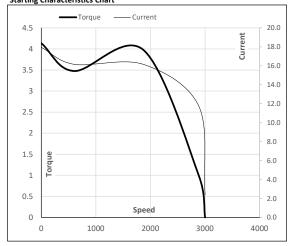
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	1867	2883	3000	
Current	Α	17.9	16.2	11.8	2.4	1.3	
Torque	pu	4.1	3.5	4.0	1	0	

Starting Characteristics Chart



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

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