# PRODUCT INFORMATION PACKET



Model No: TCEP752A5111GAA001
Catalog No: TCEP752A5111GAA001
TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 1 HP, 3 Ph, 50 Hz, 400 V,

1441 RPM, 80M Frame



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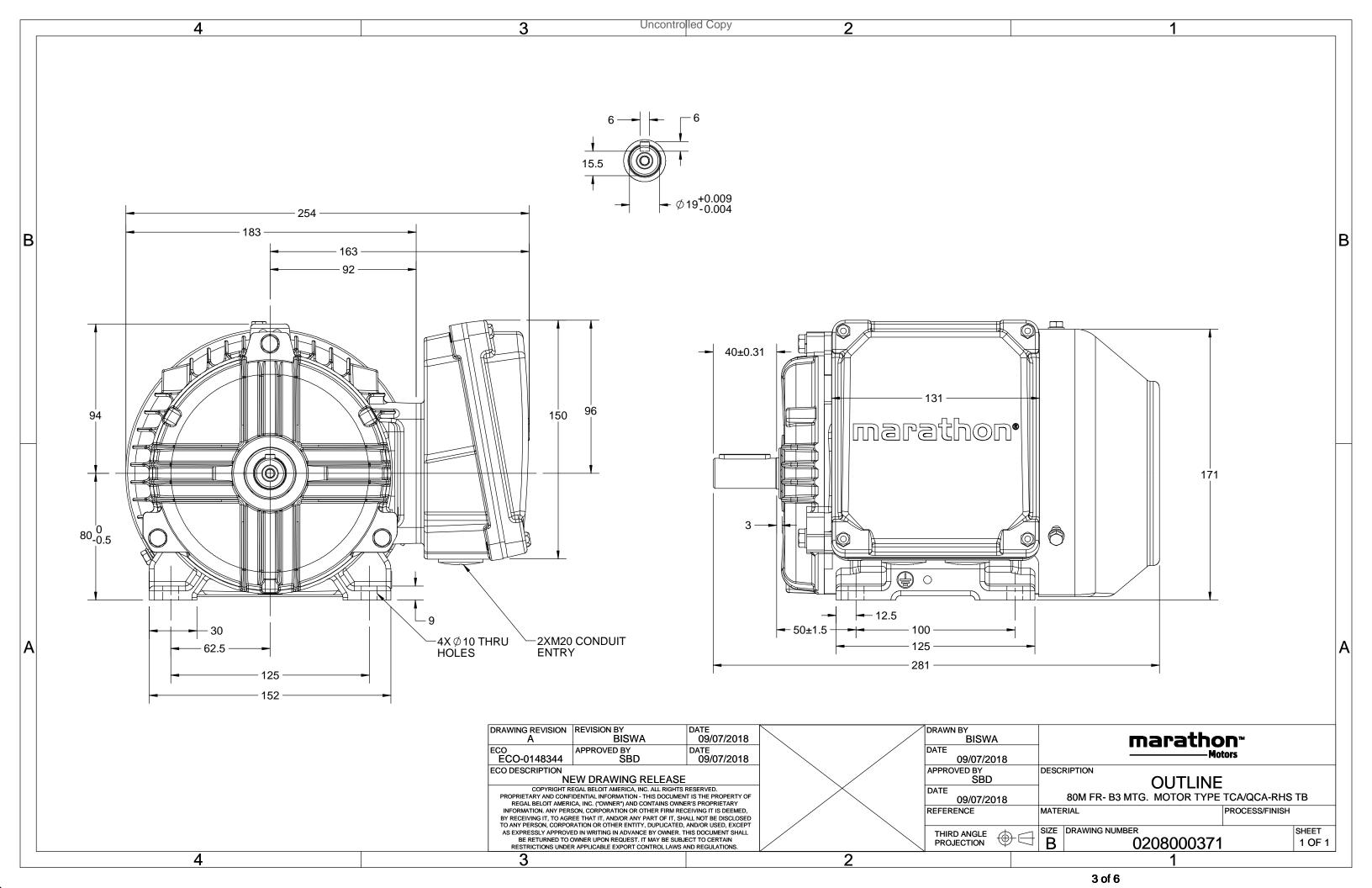
# Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 V
Current	1.7 A	Speed	1441 rpm
Service Factor	1	Phase	3
Efficiency	82.5 %	Power Factor	0.8
Duty	<b>S1</b>	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	V	IP Code	IDEE
OL .	Yes	IP Code	IP55

# **Technical Specifications**

Squirrel Cage	Starting Method	Direct On Line
4	Rotation	Bi-Directional
В3	Motor Orientation	Horizontal
2z-C3	Opp Drive End Bearing	2z-C3
Cast Iron	Shaft Type	Keyed
281 mm	Frame Length	140 mm
19.000 mm	Shaft Extension	40 mm
Тор		
0208000371	Connection Drawing	8442000085
	4 B3 2z-C3 Cast Iron 281 mm 19.000 mm	4 Rotation  B3 Motor Orientation  2z-C3 Opp Drive End Bearing  Cast Iron Shaft Type  281 mm Frame Length  19.000 mm Shaft Extension

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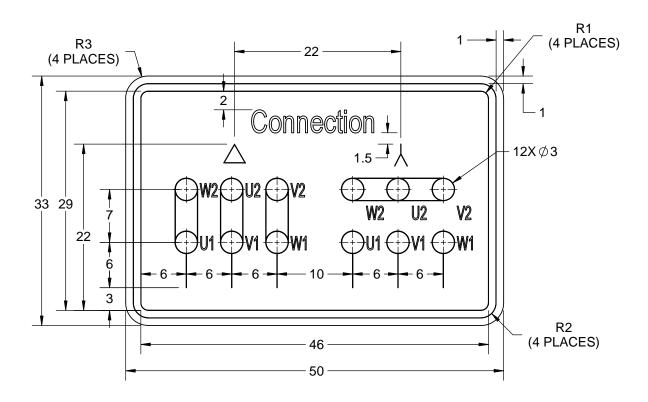


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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

### **NEW DRAWING RELEASE**

GEOM	ENTRIC TOLE	RANCE
	>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. TCEP752A5111GAA001

U	Δ/Υ	f	Р	Р	Ţ	n	Т	IE	9	6 EFF a	t load	b	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_K/T_N$
(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	0.75	1.0	1.7	1441	4.94	IE3	-	82.5	82.5	80.8	0.78	0.70	0.57	6.0	2.6	2.9

Motor type	TCE		Degree of protection
Enclosure	TEFC		Mounting type
Frame Material	Cast Iron		Cooling method
Frame size	80M		Motor weight - approx.
Duty	S1		Gross weight - approx.
Voltage variation *	± 10%		Motor inertia
Frequency variation *	± 5%		Load inertia
Combined variation *	10%		Vibration level
Design	N		Noise level ( 1meter distance from m
Service factor	1.0		No. of starts hot/cold/Equally spread
Insulation class	F		Starting method
Ambient temperature	-15 to +40	°C	Type of coupling
Temperature rise (by resistance)	70 [ Class B ]	K	tE time
Altitude above sea level	1000	meter	Direction of rotation
Hazardous area classification	Ex eb		Standard rotation
Zone classification	Zone 1		Paint shade
Gas group	IIC		Accessories
Temperature class	T3		Accessory - 1
Rotor type	Aluminum Die cast		Accessory - 2
Bearing type	Anti-friction ball		Accessory - 3
DE / NDE bearing	6204-2Z / 6204-2Z		Terminal box position
Lubrication method	Greased for life		Maximum cable size/conduit size
Type of grease	NA		Auxiliary terminal box

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	23	kg
Gross weight - approx.	24	kg
Motor inertia	0.0026	kgm <sup>2</sup>
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level ( 1meter distance from motor)	54	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
tE time	30	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 <sup>2</sup> /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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 $<sup>\</sup>ensuremath{^{*}}$  Voltage, Frequency and combined variation are as per IEC60034-1





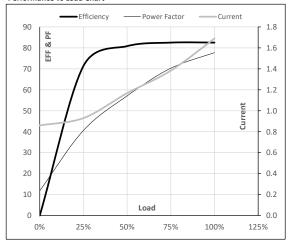
### Model No. TCEP752A5111GAA001

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 <sup>2</sup> ]	[kg]
TEFC	400	Υ	50	0.75	1	1.7	1441	0.50	4.94	IE3	40	S1	1000	0.0026	23

#### **Motor Load Data**

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	0.9	0.9	1.2	1.4	1.7	
Torque	Nm	0.0	1.6	3.3	5.0	4.9	
Speed	r/min	1500	1485	1472	1457	1441	
Efficiency	%	0.0	71.4	80.8	82.5	82.5	
Power Factor	%	11.8	40.6	57.1	70.3	77.7	

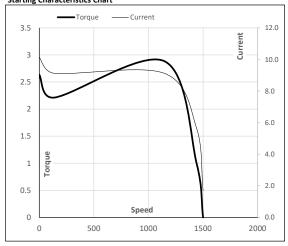
#### Performance vs Load Chart



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	136	1145	1441	1500	
Current	Α	10.1	9.1	5.7	1.7	0.9	
Torque	pu	2.6	2.2	2.9	1	0	

# Starting Characteristics Chart



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

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