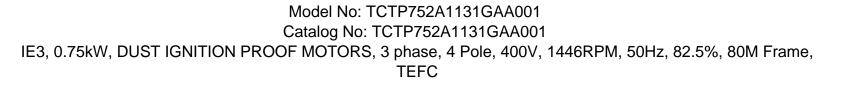
PRODUCT INFORMATION PACKET





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Motors



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Product Information Packet: Model No: TCTP752A1131GAA001, Catalog No:TCTP752A1131GAA001 IE3, 0.75kW, DUST IGNITION PROOF MOTORS, 3 phase, 4 Pole, 400V, 1446RPM, 50Hz, 82.5%, 80M Frame, TEFC

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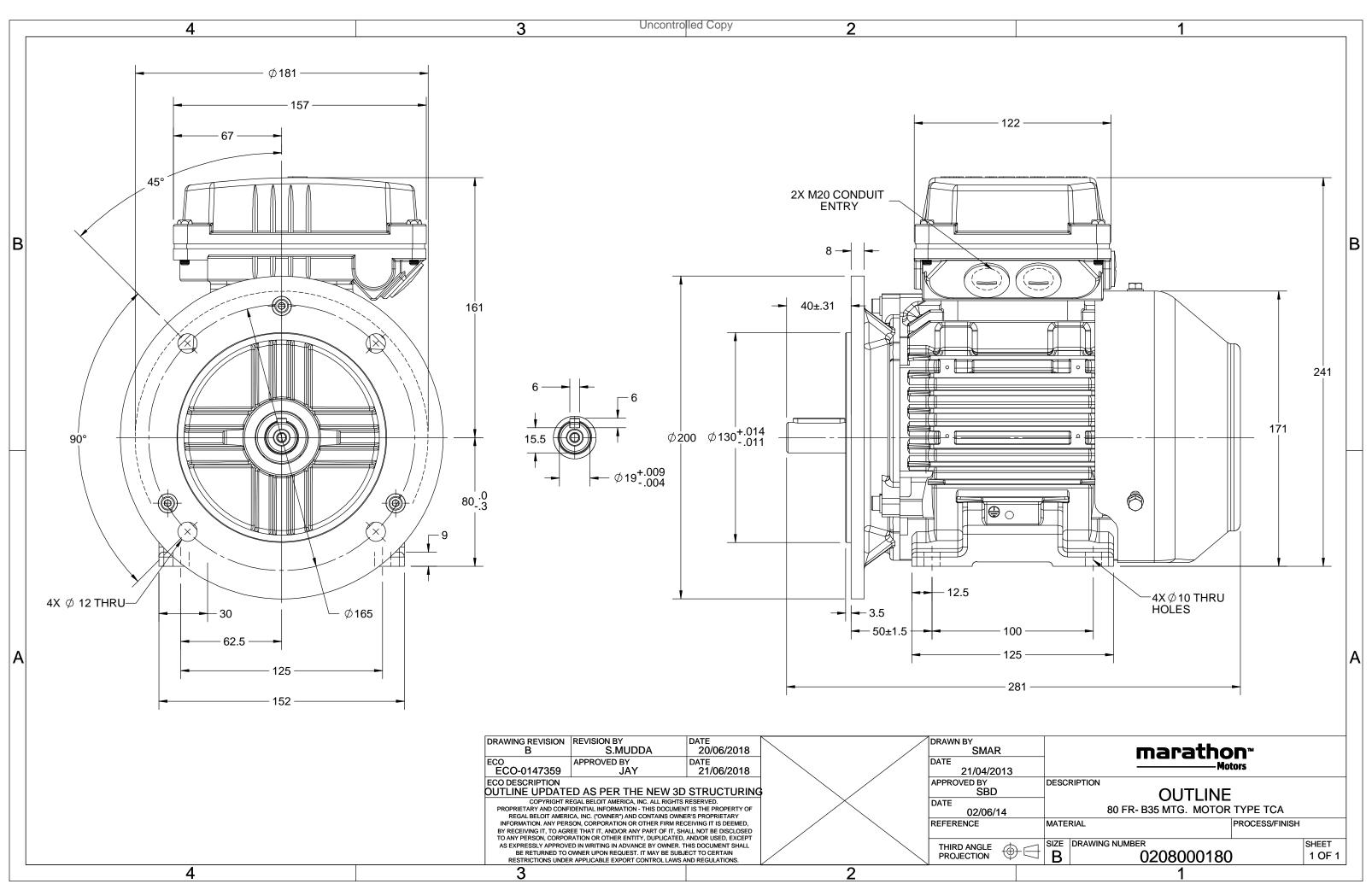
Nameplate Specifications

Output HP	1 Нр	Output KW	0.75 kW		
Frequency	50 Hz	Voltage	400 V		
Current	1.7 A	Speed	1446 rpm		
Service Factor	1	Phase	3		
Efficiency	82.5 %	Power Factor	0.75		
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	Νο		
CE	Yes	IP Code	66		
Number of Speeds	1	Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	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 mm	Shaft Extension	40 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0208000180	Connection Drawing	8442000085

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Model No. TCTP752A1131GAA001

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	0.75	1.0	1.7	1446	4.92	IE3	-	82.5	82.5	77.6	0.75	0.66	0.51	6.6	3.0	3
Motor	type				тст				Deg	ree of	protecti	on				IP 66		

			8		
Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	80M		Motor weight - approx.	23	kg
Duty	S1		Gross weight - approx.	24	kg
Voltage variation *	± 10%		Motor inertia	0.0031	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	Ν		Noise level (1meter distance from motor	r) 54	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance)	80 [Class B]	к	LR withstand time (hot/cold)	15/30	s
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	Ex tb		Standard rotation	Clockwise form DE	
Zone classification	Zone 21		Paint shade	RAL 5014	
Gas group	Group III		Accessories		
Temperature class	T135		Accessory - 1	PTC 150°C	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6204-2Z / 6204-2Z		Terminal box position	TOP	
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_K/T_N - Breakdown Torque / Rated Torque

 T_A/T_N - Locked Rotor Torque / Rated Torque

NOTE

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-31

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

* Voltage, Frequency and combine variation are as per IEC60034-1

Technical da	Technical data are subject to change. There may be discrepancies between calculated and name plate values.									
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC				
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30				

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Model No. TCTP752A1131GAA001

			Duty	Amb	IE	1	Т	n	1	Р	Р	f	Δ / Y	U	Enclosure
[kg]	[kg-m ²]	[m]		[°C]	Class	[Nm]	[kgm]	[RPM]	[A]	[hp]	[kW]	[Hz]	Conn	(∨)	
23	0.0031	1000	S1	40	IE3	4.92	0.50	1446	1.7	1.0	0.75	50	Y	400	TEFC
	0.0031	1000	51	40	IE3	4.92	0.50	1446	1./	1.0	0.75	50	Y	400	TEFC

Motor Load Data

Motor Speed Torque Data

r/min

А

pu

LR

0

11.5

3.0

P-Up

136

10.4

2.5

BD

1112

6.4

3.0

Rated

1446

1.7

1

NL

1500

1.1

0

Load Point

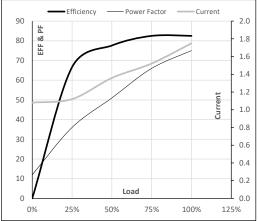
Speed

Current

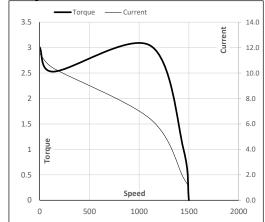
Torque

Motor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.1	1.1	1.4	1.5	1.7	
Torque	Nm	0.0	1.2	2.4	3.7	4.9	
Speed	r/min	1500	1486	1474	1461	1446	
Efficiency	%	0.0	66.6	77.6	82.5	82.5	
Power Factor	%	12.0	36.0	51.0	66.0	75.0	

Performance vs Load Chart



Starting Characteristics Chart



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

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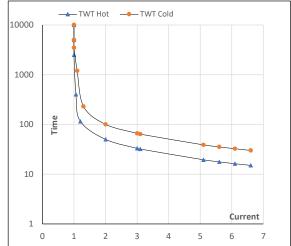
Model No. TCTP752A1131GAA001

Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	0.75	1.0	1.7	1446	0.50	4.92	IE3	40	S1	1000	0.0031	23

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	50	33	29	23	17	15
TWT Cold	S	10000	100	66	55	45	34	30
Current	pu	1	2	3	4	5	6	6.6

Thermal Characteristics Chart



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

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