PRODUCT INFORMATION PACKET



Model No: TCT1P11A1181GAA001 Catalog No: TCT1P11A1181GAA001

IE3, 1.1kW, DUST IGNITION PROOF MOTORS, 3 phase, 2 Pole, 400V, 2878RPM, 50Hz, 82.7%, 80M Frame,

TEFC





Product Information Packet: Model No: TCT1P11A1181GAA001, Catalog No:TCT1P11A1181GAA001 IE3, 1.1kW, DUST IGNITION PROOF MOTORS, 3 phase, 2 Pole, 400V, 2878RPM, 50Hz, 82.7%, 80M Frame, TEFC



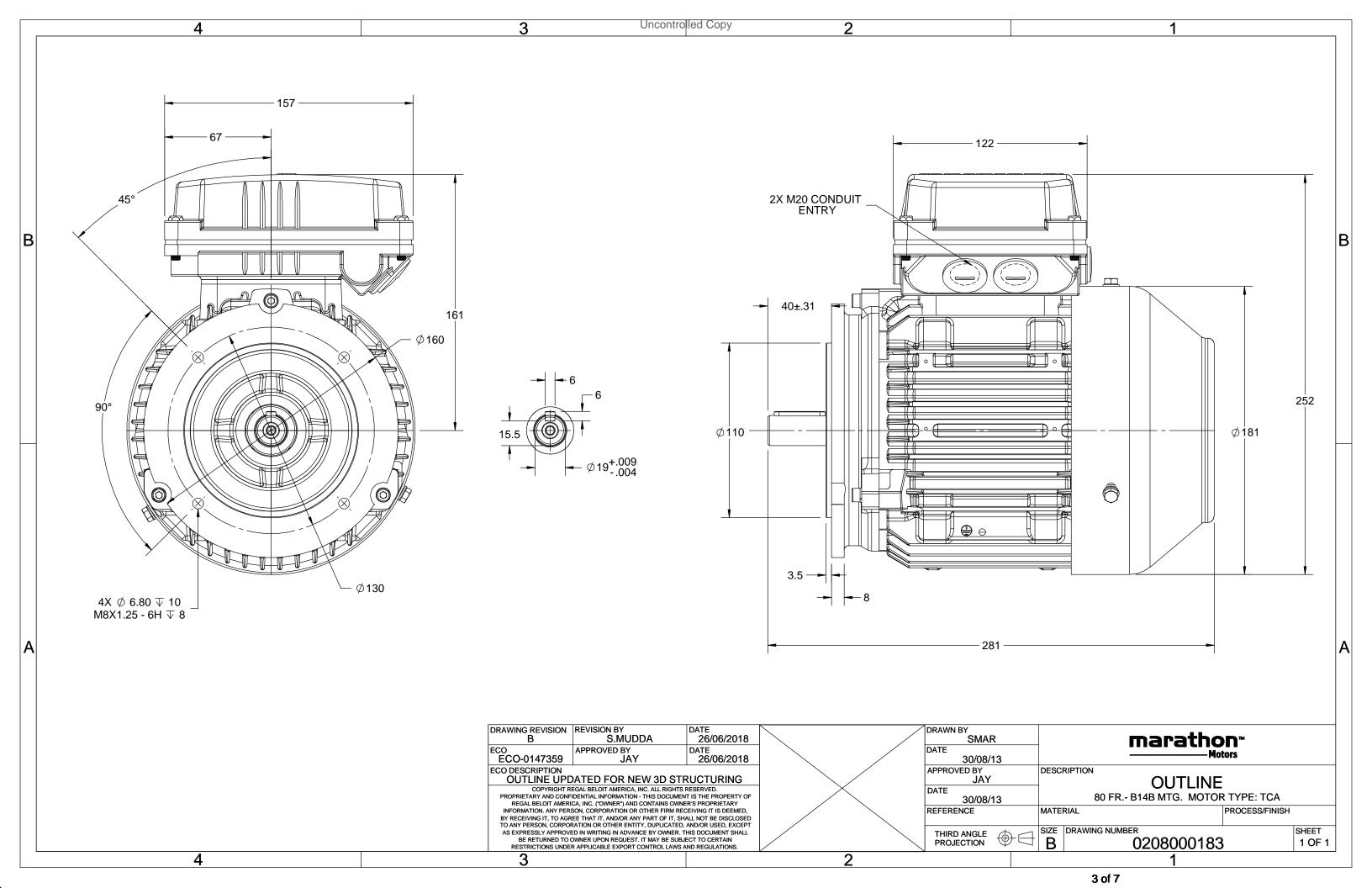
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	2.3 A	Speed	2878 rpm
Service Factor	1	Phase	3
Efficiency	82.7 %	Power Factor	0.84
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	66
Number of Speeds		Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	2	Rotation	Bi-Directional	
Mounting	B14B	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			
Connection Drawing	8442000085	Outline Drawing	0208000183	

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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





Terra MAX[®]

Model No. TCT1P11A1181GAA001

U	Δ/Υ	f	Р	Р	ı	n	Т	IE	9	% EFF a	t load	i	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	2.3	2878	3.71	IE3	-	82.7	82.7	79.3	0.84	0.77	0.64	6.8	3.2	3.3

Motor type	TCT	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	80M	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistance)	80 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	Ex tb	
Zone classification	Zone 21	
Gas group	Group III	
Temperature class	T135	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6204-2Z / 6204-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 66	
Mounting type	IM B14B	
Cooling method	IC 411	
Motor weight - approx.	21	kg
Gross weight - approx.	22	kg
Motor inertia	0.0016	kgm ²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from mot	tor) 56	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	7/15	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
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_K/T_N - Breakdown 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 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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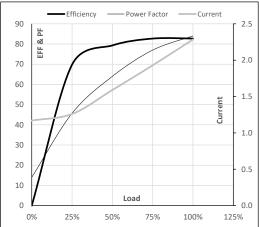
Model No. TCT1P11A1181GAA001

(V) Conn [Hz] [kW] [hp] [A] [RPM] [kgm] [Nm] Class [°C] [m] [kg-m²]	Weight	Inertia	Elevation	Duty	Amb	IE	Т	Т	n	- 1	Р	Р	f	Δ / Y	U	Enclosure
TFFC 400 V 50 11 15 22 2979 029 271 152 40 51 1000 0.0016	[kg]	[kg-m ²]	[m]			Class	[Nm]	[kgm]	[RPM]	[A]	[hp]	[kW]	[Hz]	Conn	(V)	
12.0 400 1 30 1.1 1.3 2.3 2878 0.38 3.71 11.3 40 31 1000 0.0010	21	0.0016	1000	S1	40	IE3	3.71	0.38	2878	2.3	1.5	1.1	50	Υ	400	TEFC

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	1.2	1.3	1.6	1.9	2.3	
Torque	Nm	0.0	0.9	1.8	2.8	3.7	
Speed	r/min	3000	2970	2943	2912	2878	
Efficiency	%	0.0	69.8	79.3	82.7	82.7	
Power Factor	%	14.0	45.7	64.0	77.0	84.0	

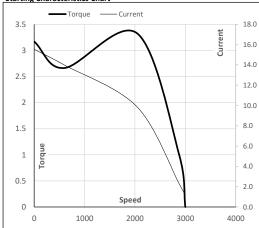
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2040	2878	3000	
Current	Α	15.5	14.0	9.9	2.3	1.2	
Torque	pu	3.2	2.7	3.3	1	0	

Starting Characteristics Chart



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

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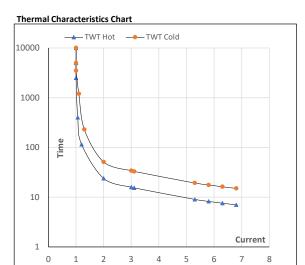


Model No. TCT1P11A1181GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Υ	50	1.1	1.5	2.3	2878	0.38	3.71	IE3	40	S1	1000	0.0016	21

Motor Speed Torque Data

Load		FL	l ₁	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	24	16	13	10	8	7
TWT Cold	S	10000	51	34	22	20	17	15
Current	pu	1	2	3	4	5	6	6.8



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

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