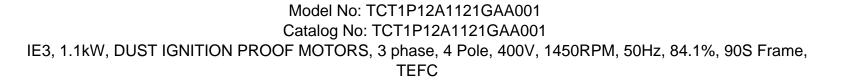
PRODUCT INFORMATION PACKET





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1 of 7



Product Information Packet: Model No: TCT1P12A1121GAA001, Catalog No:TCT1P12A1121GAA001 IE3, 1.1kW, DUST IGNITION PROOF MOTORS, 3 phase, 4 Pole, 400V, 1450RPM, 50Hz, 84.1%, 90S Frame, TEFC

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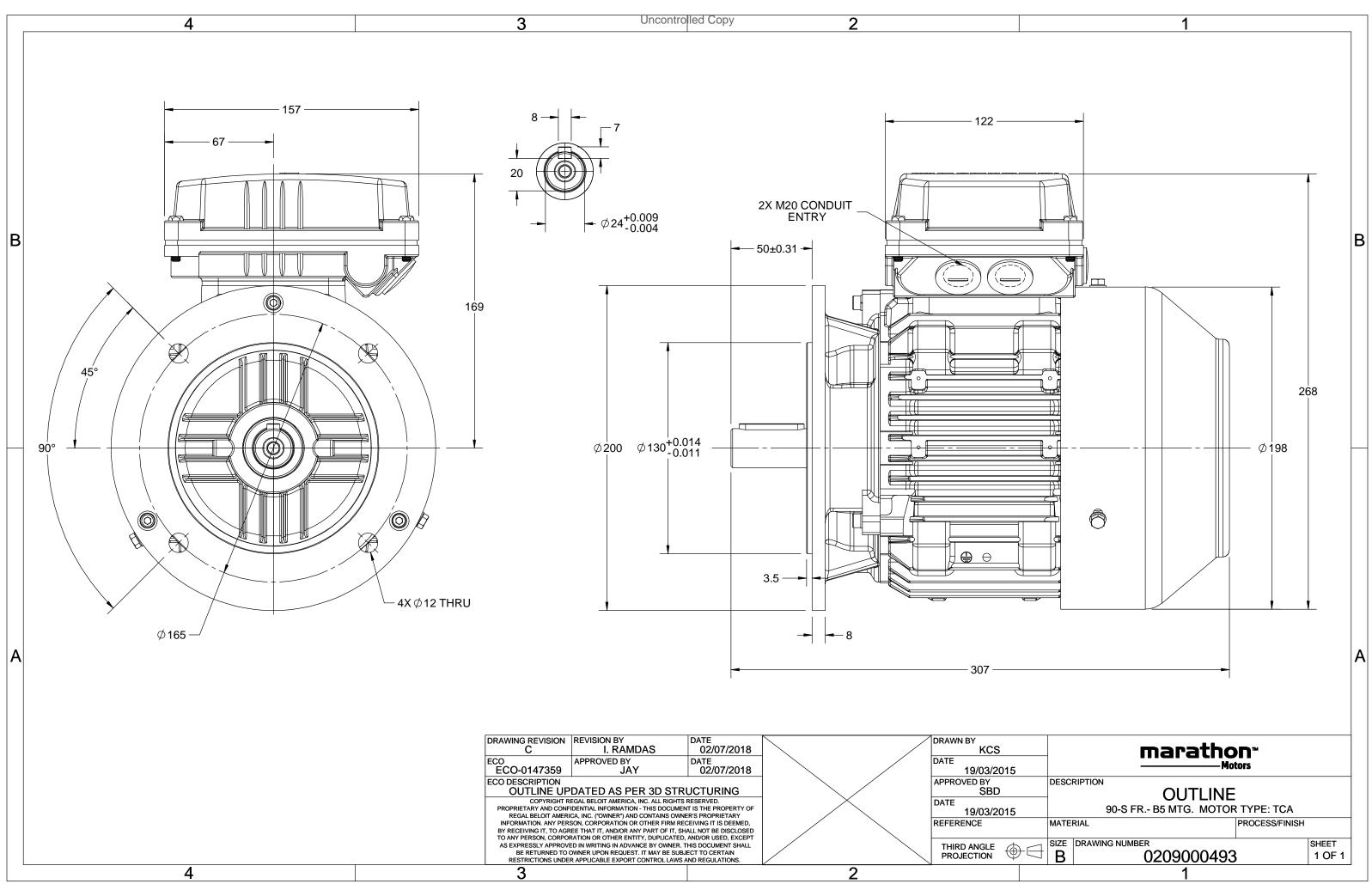
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW		
Frequency	50 Hz	Voltage	400 V		
Current	2.5 A	Speed	1450 rpm		
Service Factor	1	Phase	3		
Efficiency	84.1 %	Power Factor	0.77		
Duty	S1 Insulat		F		
Frame	90S	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205		
UL	No	CSA	No		
CE	N	ID Cada	60		
CE	Yes	IP Code	66		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	307 mm	Frame Length	128 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0209000493	Connection Drawing	8442000085

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3 of 7







Model No. TCT1P12A1121GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	T_{κ}/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	1.1	1.5	2.5	1450	7.36	IE3	-	84.1	84.1	79.1	0.77	0.67	0.52	6.8	2.9	3.4

Motor type	TCT		Degree of protection	IP 66	
Enclosure	TEFC		Mounting type	IM B5	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	90S		Motor weight - approx.	25	kg
Duty	S1		Gross weight - approx.	26	kg
Voltage variation *	± 10%		Motor inertia	0.0045	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 moto	or) 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	6205-2Z / 6205-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	LR x 3C x 10mm²/2 x M20 x 1.5	
Type of grease	NA		Auxiliary terminal box	NA	

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - 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. TCT1P12A1121GAA001

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	1.1	1.5	2.5	1450	0.75	7.36	IE3	40	S1	1000	0.0045	25

Motor Load Data

Motor Speed Torque Data

r/min

Α

pu

LR

0

16.7

2.9

P-Up

300

15.0

2.4

BD

1079

10.2

3.4

Rated

1450

2.5

1

NL

1500

1.6

0

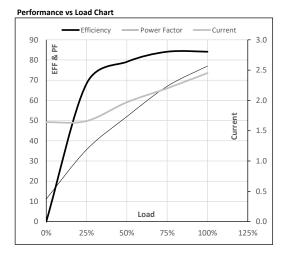
Load Point

Speed

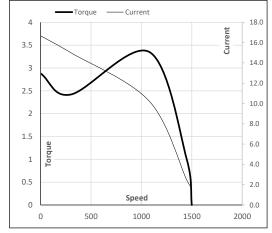
Current

Torque

NOLOF LOAU Da	ald						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	1.6	1.7	2.0	2.2	2.5	
Torque	Nm	0.0	1.8	3.6	5.5	7.4	
Speed	r/min	1500	1487	1476	1464	1450	
Efficiency	%	0.0	68.3	79.1	84.1	84.1	
Power Factor	%	11.2	35.6	52.0	67.0	77.0	



Starting Characteristics Chart



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

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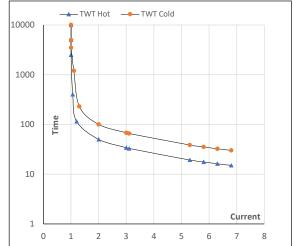
Model No. TCT1P12A1121GAA001

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	1.1	1.5	2.5	1450	0.75	7.36	IE3	40	S1	1000	0.0045	25

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	50	34	29	23	17	15
TWT Cold	S	10000	100	68	55	45	34	30
Current	pu	1	2	3	4	5	6	6.8

Thermal Characteristics Chart



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

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