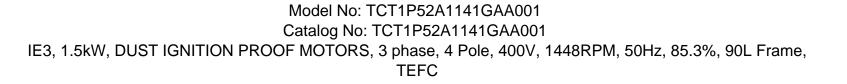
PRODUCT INFORMATION PACKET





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Product Information Packet: Model No: TCT1P52A1141GAA001, Catalog No:TCT1P52A1141GAA001 IE3, 1.5kW, DUST IGNITION PROOF MOTORS, 3 phase, 4 Pole, 400V, 1448RPM, 50Hz, 85.3%, 90L Frame, TEFC

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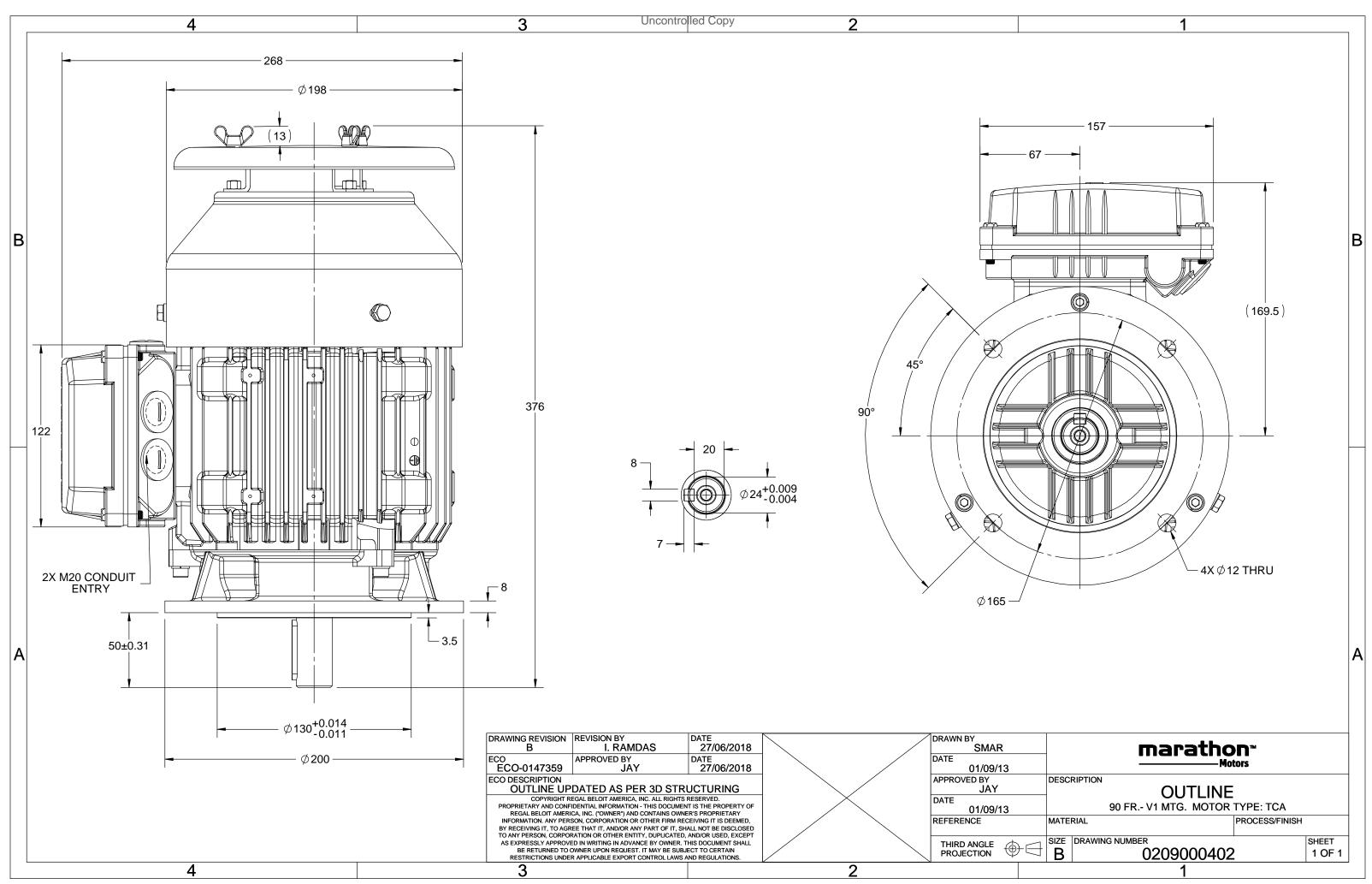
Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	50 Hz	Voltage	400 V
Current	3.3 A	Speed	1448 rpm
Service Factor	1	Phase	3
Efficiency	85.3 %	Power Factor	0.77
Duty	S1	Insulation Class	F
Frame	90L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
Bitte Ella Bealing elle	0200	Opp Billo Ella Bealling Olzo	0200
UL	No	CSA CSA	No

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	4	Rotation	Bi-Directional	
Mounting	V1	Motor Orientation	Shaftdown	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	375 mm	Frame Length	153 mm	
Shaft Diameter	24 mm	Shaft Extension	50 mm	
Assembly/Box Mounting	Тор			
Connection Drawing	8442000085	Outline Drawing	0209000402	

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3 of 7







Model No. TCT1P52A1141GAA001

U	Δ / Y	f	Р	Р	I.	n	Т	IE	% EFF at load			PF at load			I_A/I_N	T_A/T_N	$T_{\rm K}/T_{\rm N}$	
(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	1.5	2	3.3	1448	9.83	IE3	-	85.3	85.3	80.3	0.77	0.68	0.52	7	3.0	3.4
Motor	type		ТСТ					Deg	Degree of protection					IP 66				
Enclos	ure				TEFC	2			Мо	unting	type					IM V1		
F # a # a	Mataria				Cast In	on			Cas	1:00 00 000 0	ار م دام					IC 411		

Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	90L		Motor weight - approx.	27	kg
Duty	S1		Gross weight - approx.	28	kg
Voltage variation *	± 10%		Motor inertia	0.0052	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)	10/20	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	1R 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_{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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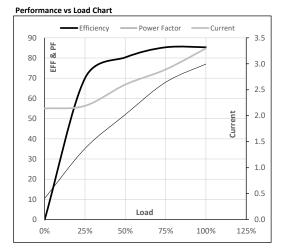


Model No. TCT1P52A1141GAA001

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	1.5	2.0	3.3	1448	1.00	9.83	IE3	40	S1	1000	0.0052	27

Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	2.1	2.2	2.6	2.9	3.3	
Nm	0.0	2.4	4.8	7.3	9.8	
r/min	1500	1487	1475	1462	1448	
%	0.0	70.0	80.3	85.3	85.3	
%	10.5	35.2	52.0	68.0	77.0	
	Nm r/min %	A 2.1 Nm 0.0 r/min 1500 % 0.0	A 2.1 2.2 Nm 0.0 2.4 r/min 1500 1487 % 0.0 70.0	A 2.1 2.2 2.6 Nm 0.0 2.4 4.8 r/min 1500 1487 1475 % 0.0 70.0 80.3	A 2.1 2.2 2.6 2.9 Nm 0.0 2.4 4.8 7.3 r/min 1500 1487 1475 1462 % 0.0 70.0 80.3 85.3	A 2.1 2.2 2.6 2.9 3.3 Nm 0.0 2.4 4.8 7.3 9.8 r/min 1500 1487 1475 1462 1448 % 0.0 70.0 80.3 85.3 85.3



d Torque Dat	а				
	LR	P-Up	BD	Rated	NL
r/min	0	300	1015	1448	1500
А	23.1	20.8	14.4	3.3	2.1
	r/min	r/min 0	LR P-Up r/min 0 300	LR P-Up BD r/min 0 300 1015	LR P-Up BD Rated r/min 0 300 1015 1448

3.4

1

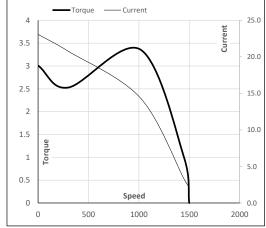
0

2.5

3.0

pu





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

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Torque

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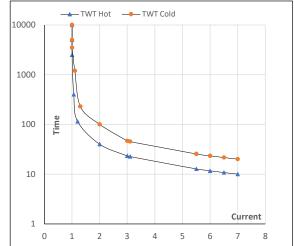
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.5	2.0	3.3	1448	1.00	9.83	IE3	40	S1	1000	0.0052	27

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	40	23	20	13	12	10
TWT Cold	s	10000	100	47	40	24	23	20
Current	pu	1	2	3	4	5	6	7

Thermal Characteristics Chart



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

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