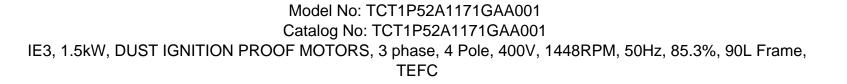
PRODUCT INFORMATION PACKET





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Motors

Product Information Packet: Model No: TCT1P52A1171GAA001, Catalog No:TCT1P52A1171GAA001 IE3, 1.5kW, DUST IGNITION PROOF MOTORS, 3 phase, 4 Pole, 400V, 1448RPM, 50Hz, 85.3%, 90L Frame, TEFC

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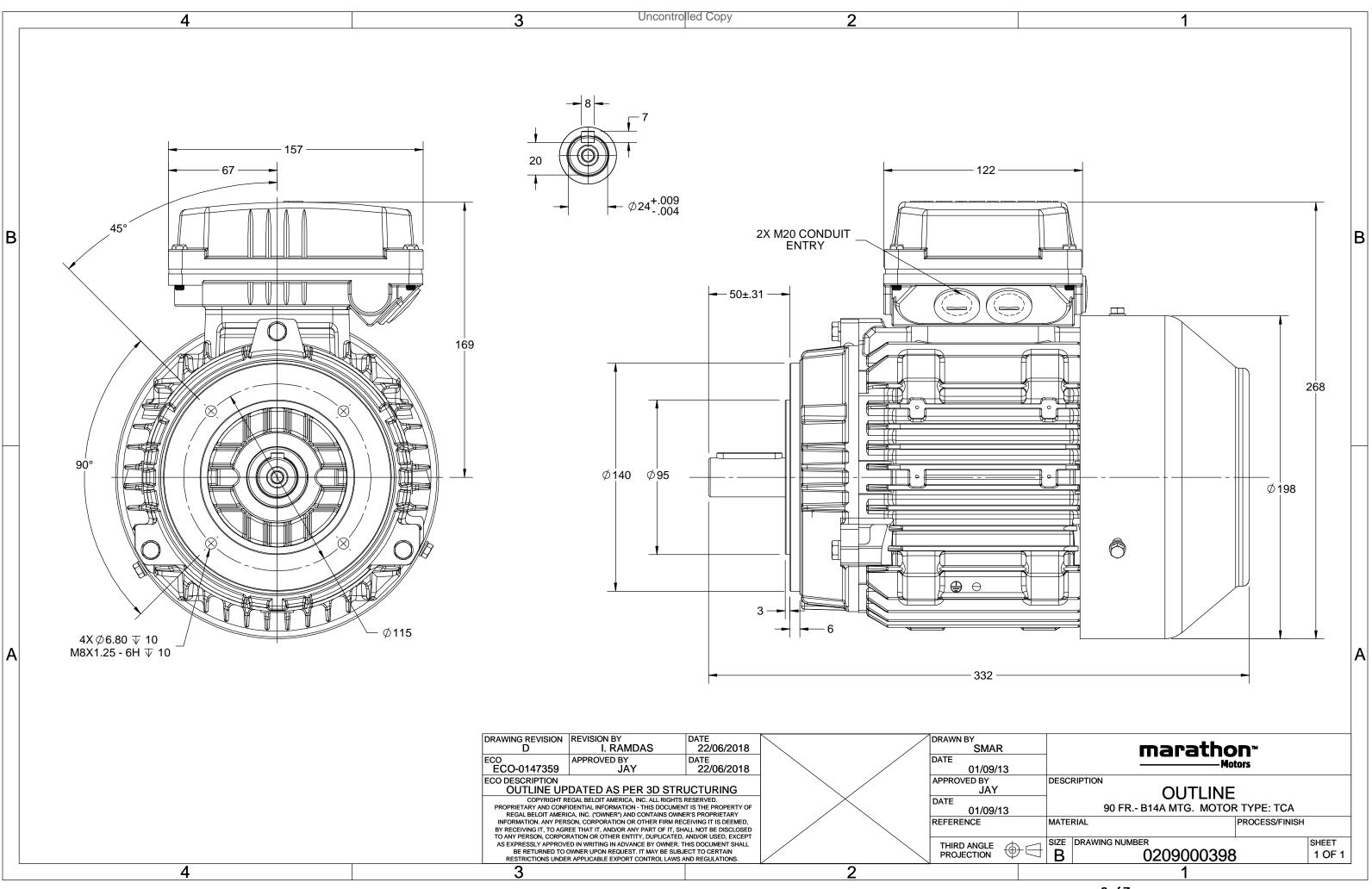
Nameplate Specifications

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
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	B14A	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	332 mm	Frame Length	153 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0209000398	Connection Drawing	8442000085

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Model No. TCT1P52A1171GAA001

U	Δ / Y	f	Р	Р	I	n	т	IE	9	6 EFF a	t load	ł	PF	at lo	ad	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		Degree of protection	IP 66	
Enclosure	TEFC		Mounting type	IM B14A	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	90L		Motor weight - approx.	26	kg
Duty	S1		Gross weight - approx.	27	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	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)	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 1	R 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

 Standards

REGAL

Global IEC

IEC: 60034-30

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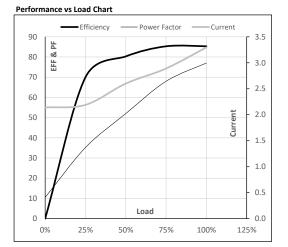


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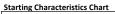
(V) Conn [Hz] [kW] [hp] [A] [RPM] [kgm] [Nm] Class [°C]	[m]	ri	
	[111]	[kg-m ²]	[kg]
TEFC 400 Y 50 1.5 2.0 3.3 1448 1.00 9.83 IE3 40 S1	1000	0.0052	26

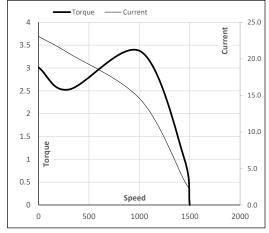
Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.1	2.2	2.6	2.9	3.3	
Torque	Nm	0.0	2.4	4.8	7.3	9.8	
Speed	r/min	1500	1487	1475	1462	1448	
Efficiency	%	0.0	70.0	80.3	85.3	85.3	
Power Factor	%	10.5	35.2	52.0	68.0	77.0	



Motor Speed	Torque Dat	а					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1015	1448	1500	
Current	А	23.1	20.8	14.4	3.3	2.1	
Torque	pu	3.0	2.5	3.4	1	0	





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

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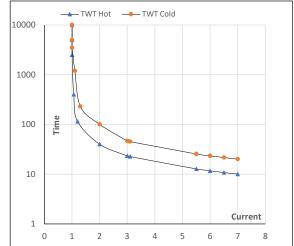
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.5	2.0	3.3	1448	1.00	9.83	IE3	40	S1	1000	0.0052	26

Motor Speed Torque Data

Load		EI	1	1	1	1	1	LR
LUau		FL	'1	'2	13	4	15	LN
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
	-	10000 1	100 2	47 3		24 5		

Thermal Characteristics Chart



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

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