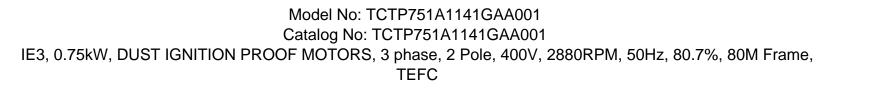
PRODUCT INFORMATION PACKET





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Motors



Product Information Packet: Model No: TCTP751A1141GAA001, Catalog No:TCTP751A1141GAA001 IE3, 0.75kW, DUST IGNITION PROOF MOTORS, 3 phase, 2 Pole, 400V, 2880RPM, 50Hz, 80.7%, 80M Frame, TEFC

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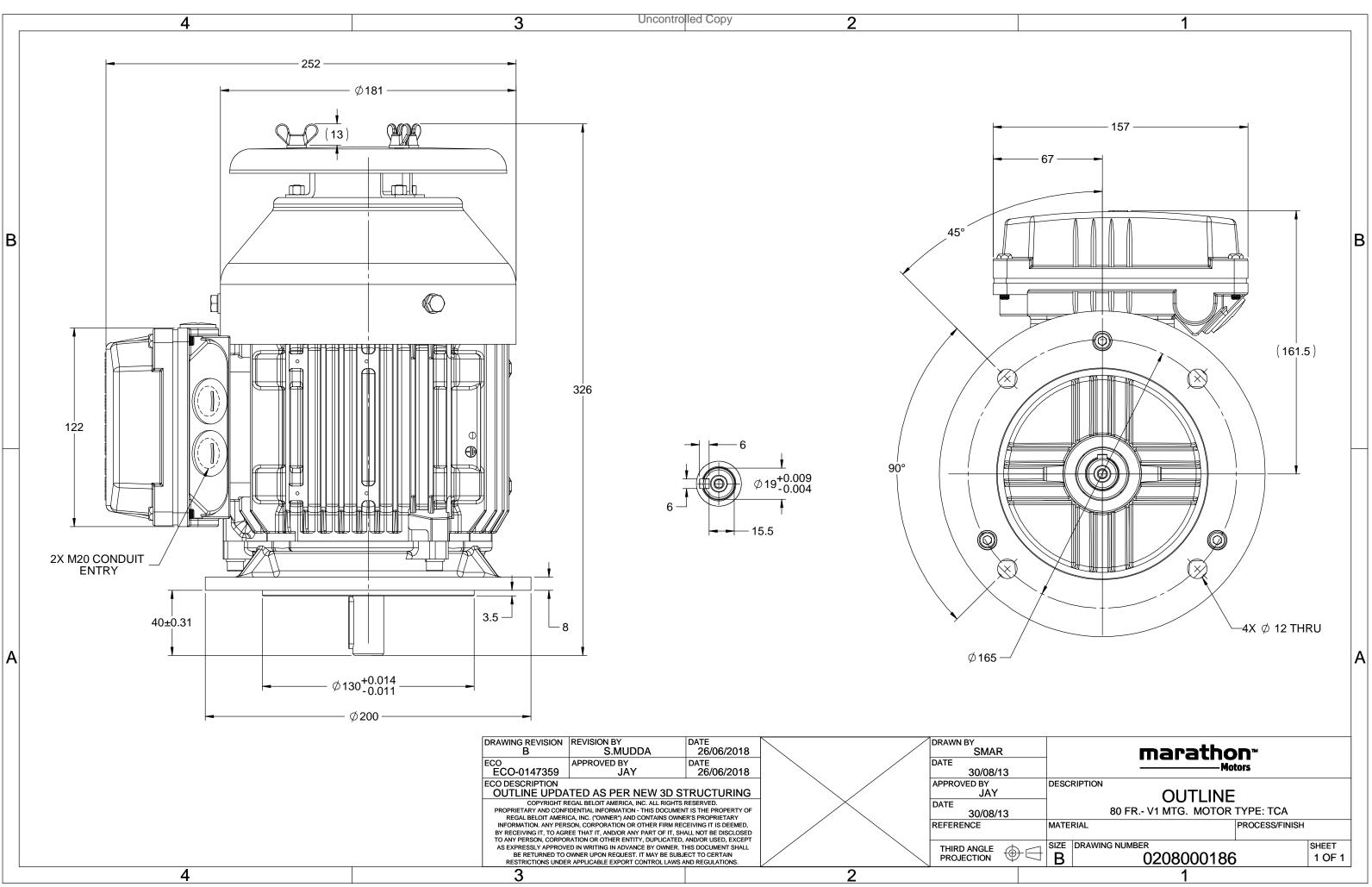
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 V
Current	1.6 A	Speed	2880 rpm
Service Factor	1	Phase	3
Efficiency	80.7 %	Power Factor	0.83
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		Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	2	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	326 mm	Frame Length	140 mm	
Shaft Diameter	19 mm	Shaft Extension	40 mm	
Assembly/Box Mounting	Тор			
Connection Drawing	8442000085	Outline Drawing	0208000186	

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Model No. TCTP751A1141GAA001

U	Δ / Y	f	Р	Р	1	n	т	IE		% EFF a	t load	d	PF	at lo	bad	I_A/I_N	T_A/T_N	T_{κ}/T_{N}
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL		1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
400	Y	50	0.75	1	1.6	2880	2.47	IE3	-	80.7	80.7	, 75.6	0.83	0.75	0.61	6.5	3.0	3.3
Motor	type				тст				De	gree of	protecti	on				IP 66		
Enclosu	ure				TEF	C			Mc	ounting	type					IM V1		
Frame	Material				Cast li	on			Co	oling me	ethod					IC 411		
Frame	size				80N	1			Mc	otor wei	ght - ap	prox.				20		kg
Duty					S1				Gro	Gross weight - approx.					21			kg
Voltage	e variatio	on *			± 10	%			Mc	Motor inertia					0.0013			kgm ²
Freque	ncy varia	ation *			± 5%	6			Loa	Load inertia					Cust	omer to Provid	е	
Combi	ned varia	ation *			10%	Ď			Vib	Vibration level						1.6		mm/s
Design					Ν				Noise level (1meter distance from mot				n motor)	56			
Service	factor				1.0				No	. of star	ts hot/c	old/Equ	ally spr	ead	2/3/4			
Insulat	ion class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to	+40		°C	Тур	Type of coupling				Direct				
Tempe	rature ri	se (by r	resistan	ce)	80 [Cla:	ss B]		К	LR	withsta	nd time	(hot/co	ld)			10/20		S
Altitud	e above	sea lev	el		100	0		meter	Dir	ection o	of rotatio	on			В	i-directional		
Hazard	lous area	a classif	ication		Ex t	b			Sta	ndard r	otation				Clo	ckwise form DB		
	Zone cla	assifica	tion		Zone	21			Pai	nt shad	e					RAL 5014		
	Gas gro	up			Group	o III			Acc	cessorie	s							
	Temper	ature o	lass		T13	5				Ace	cessory	- 1				PTC 150°C		
Rotor t	уре			A	luminum	Die cast				Ace	cessory	- 2				-		
Bearing	g type				Anti-fricti	on ball				Ace	cessory	- 3				-		
DE / NI	DE bearii	ng		62	204-2Z /	6204-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod			Greased f	or life			Ma	ximum	cable si	ze/cond	uit size	18	x 3C x 3	10mm²/2 x M2	0 x 1.5	
Type o	f grease				NA				Au	xiliary te	erminal	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

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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

 $\ensuremath{^*}$ Voltage, Frequency and combine variation are as per IEC60034-1

Technical da	ta are subject t	o change. There may be discrepancie	s 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. TCTP751A1141GAA001

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	1.6	2880	0.25	2.47	IE3	40	S1	1000	0.0013	20

Motor Load Data

Motor Speed Torque Data

r/min

А

pu

LR

0

10.5

3.0

P-Up

600

9.5

2.5

BD

2058

6.6

3.3

Rated

2880

1.6

1

NL

3000

0.9

0

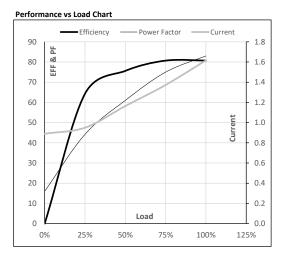
Load Point

Speed

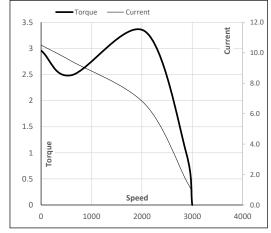
Current

Torque

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	0.9	1.0	1.2	1.4	1.6	
Nm	0.0	0.6	1.2	1.8	2.5	
r/min	3000	2969	2943	2913	2880	
%	0.0	64.3	75.6	80.7	80.7	
%	16.0	44.2	61.0	75.0	83.0	
	Nm r/min %	A 0.9 Nm 0.0 r/min 3000 % 0.0	A 0.9 1.0 Nm 0.0 0.6 r/min 3000 2969 % 0.0 64.3	A 0.9 1.0 1.2 Nm 0.0 0.6 1.2 r/min 3000 2969 2943 % 0.0 64.3 75.6	A 0.9 1.0 1.2 1.4 Nm 0.0 0.6 1.2 1.8 r/min 3000 2969 2943 2913 % 0.0 64.3 75.6 80.7	A 0.9 1.0 1.2 1.4 1.6 Nm 0.0 0.6 1.2 1.8 2.5 r/min 3000 2969 2943 2913 2880 % 0.0 64.3 75.6 80.7 80.7



Starting Characteristics Chart



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

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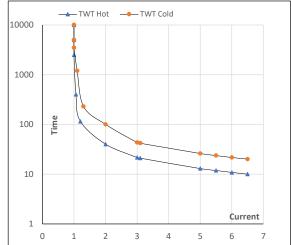
Model No. TCTP751A1141GAA001

Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	0.75	1.0	1.6	2880	0.25	2.47	IE3	40	S1	1000	0.0013	20

Motor Speed Torque Data

· · ·								
Load		FL	I_1	I_2	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	40	22	17	13	11	10
TWT Cold	s	10000	100	43	36	26	22	20
Current	pu	1	2	3	4	5	6	6.5

Thermal Characteristics Chart



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

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