# PRODUCT INFORMATION PACKET



Model No: TCT1P13A1141GAA001 Catalog No: TCT1P13A1141GAA001

IE3, 1.1kW, DUST IGNITION PROOF MOTORS, 3 phase, 6 Pole, 400V, 941RPM, 50Hz, 81%, 90L Frame, TEFC





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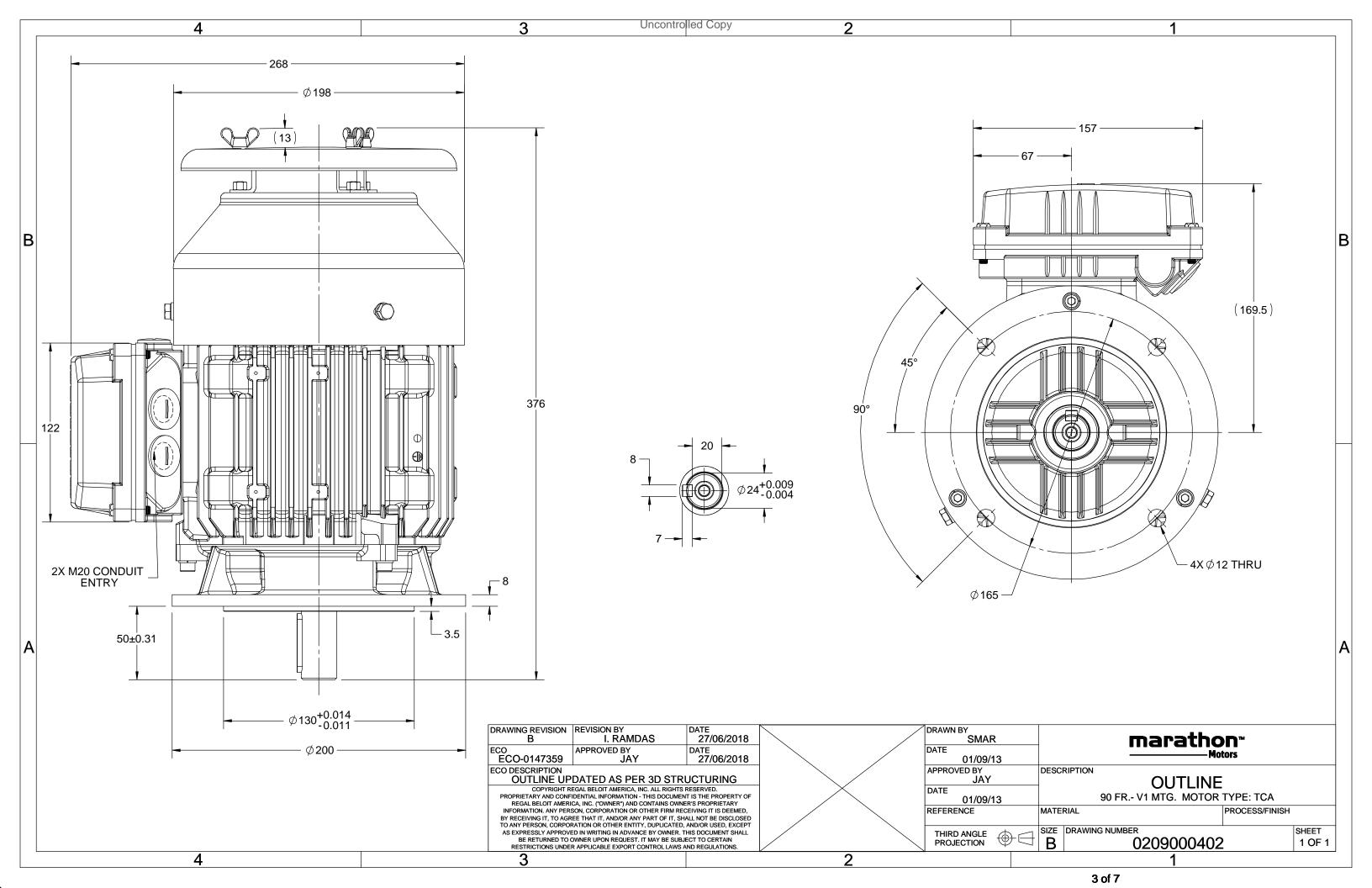
## Nameplate Specifications

Output HP	put HP 1.50 Hp Outpu		1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	3.0 A	Speed	941 rpm
Service Factor	1	Phase	3
Efficiency	81 %	Power Factor	0.66
Duty	<b>S</b> 1	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	No
CE	Yes	IP Code	66
Number of Speeds	1	Efficiency Class	IE3

# **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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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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**

GEOM	ENTRIC TOLE	RANCE
	>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







### Model No. TCT1P13A1141GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	it load		PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_K/T_N$
(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	3.0	941	11.35	IE3	-	81	81	74.8	0.66	0.55	0.39	4.8	3.0	3

Motor type	TCT	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	90L	
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	6205-2Z / 6205-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 66	
Mounting type	IM V1	
Cooling method	IC 411	
Motor weight - approx.	28	kg
Gross weight - approx.	29	kg
Motor inertia	0.0046	kgm <sup>2</sup>
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level ( 1meter distance from mo	otor) 51	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	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 10mm²/2 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<sub>K</sub>/T<sub>N</sub> - 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

 $\ensuremath{^{*}}$  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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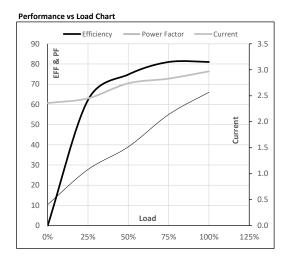




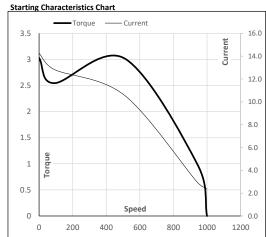
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(V) Conn [Hz] [kW] [hp] [A] [RPM] [kgm] [Nm] Class [°C] [m] [kg-m²]	[kg]	r. 2-													_	Enclosure
7770	נאאו	[kg-m <sup>-</sup> ]	[m]			Class	[Nm]	[kgm]	[RPM]	[A]	[hp]	[kW]	[Hz]	Conn	(V)	
	28	0.0046	1000	S1	40	IE3	11.35	1.16	941	3.0	1.5	1.1	50	Υ	400	TEFC

#### Motor Load Data Load Point NL 1/4FL 1/2FL 3/4FL FL 5/4FL 2.5 Current 2.4 2.7 3.0 2.8 Torque Nm 0.0 2.7 5.5 8.4 11.3 Speed r/min 1000 986 972 958 941 Efficiency % 0.0 62.2 74.8 81.0 81.0 10.4 Power Factor 27.8 39.0 55.0 66.0



Motor Speed	d Torque Dat	a				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	91	508	941	1000
Current	Α	14.3	12.8	10.6	3.0	2.4
Torque	pu	3.0	2.5	3.0	1	0



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

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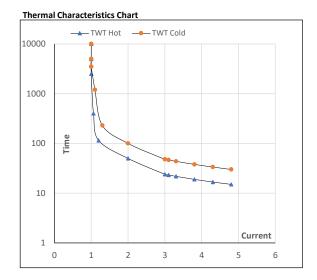




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Υ	50	1.1	1.5	3.0	941	1.16	11.35	IE3	40	S1	1000	0.0046	28

#### Motor Speed Torque Data Load LR TWT Hot s 10000 50 20 18 16 15 TWT Cold s 10000 100 48 40 35 32 30 4.5 4.8 Current pu 1 2 3.5 4



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

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