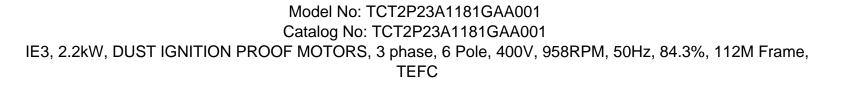
PRODUCT INFORMATION PACKET





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1 of 7



Product Information Packet: Model No: TCT2P23A1181GAA001, Catalog No:TCT2P23A1181GAA001 IE3, 2.2kW, DUST IGNITION PROOF MOTORS, 3 phase, 6 Pole, 400V, 958RPM, 50Hz, 84.3%, 112M Frame, TEFC

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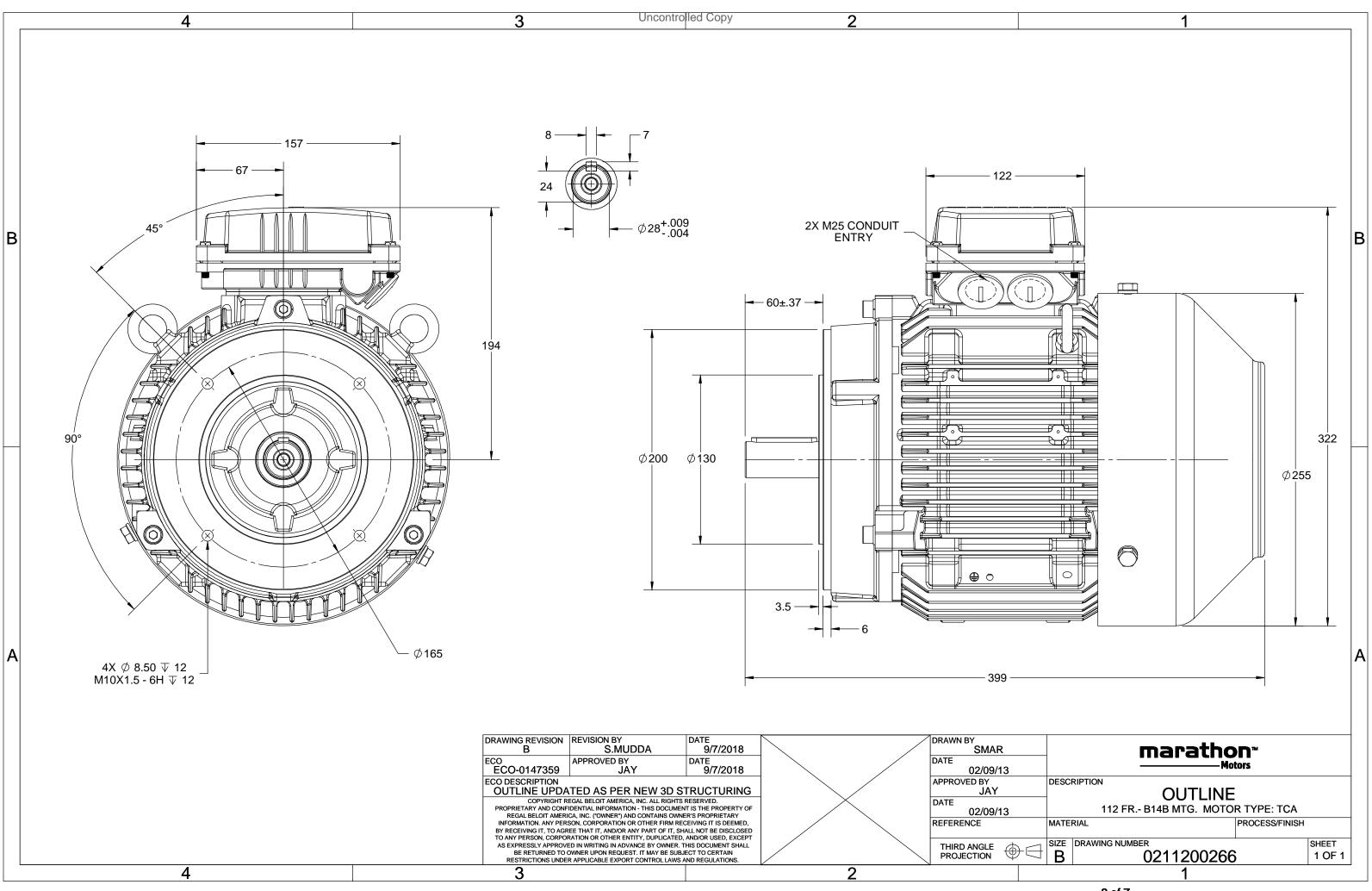
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW		
Frequency	50 Hz	Voltage	400 V		
Current	5.2 A	Speed	958 rpm		
Service Factor	Factor 1 Phase		3		
Efficiency	84.3 %	Power Factor	0.73		
Duty	S1	Insulation Class	F		
Frame	112M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206		
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	6	Rotation	Bi-Directional
Mounting	B14B	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	399 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0211200266

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3 of 7







Model No. TCT2P23A1181GAA001

U	Δ / Y	f	Р	Р	1	n	Т	IE	IE % EFF at load			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	2.2	3	5.2	958	22.34	IE3	-	84.3	84.3	82.4	0.73	0.65	0.5	5.9	2.5	2.8

Motor type	TCT		Degree of protection	IP 66	
Enclosure	TEFC		Mounting type	IM B14B	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	112M		Motor weight - approx.	48	kg
Duty	S1		Gross weight - approx.	51	kg
Voltage variation *	± 10%		Motor inertia	0.0158	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) 58	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	6306-2Z / 6206-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size 1	R x 3C x 16mm²/2 x M25 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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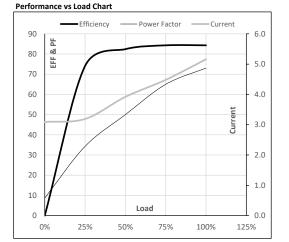
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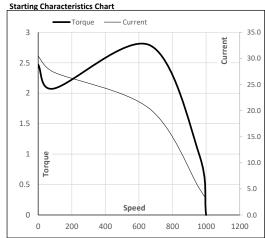
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	2.2	3.0	5.2	958	2.28	22.34	IE3	40	S1	1000	0.0158	48
	100		50		5.0	5.2	550	2.20	22.01	.25		01	1000	0.0150	

Motor Load Data

Motor Speed Torque Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.1	3.2	3.9	4.5	5.2	
Torque	Nm	0.0	5.4	10.9	16.6	22.3	
Speed	r/min	1000	990	981	970	958	
Efficiency	%	0.0	74.1	82.4	84.3	84.3	
Power Factor	%	8.7	34.3	50.0	65.0	73.0	





Load Point LR P-Up BD Rated NL Speed r/min 0 91 663 958 1000 27.4 Current 30.4 20.4 5.2 3.1 А 2.5 2.1 2.8 1 0 Torque pu

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

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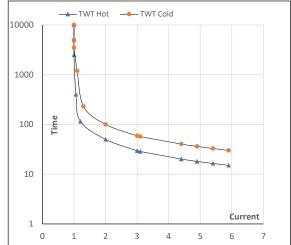
Model No. TCT2P23A1181GAA001

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Enclosure	U	Δ / Y	т	Р	Р	I	n	I	1	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	2.2	3.0	5.2	958	2.28	22.34	IE3	40	S1	1000	0.0158	48

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	50	30	25	17	16	15
TWT Cold	S	10000	100	59	50	35	32	30
Current	pu	1	2	3	4	5	5.5	5.9

Thermal Characteristics Chart



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

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