PRODUCT INFORMATION PACKET





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marathon[®]

Motors



Product Information Packet: Model No: TCT2P22A1171GAA001, Catalog No:TCT2P22A1171GAA001 IE3, 2.2kW, DUST IGNITION PROOF MOTORS, 3 phase, 4 Pole, 400V, 1456RPM, 50Hz, 86.7%, 100L Frame, TEFC

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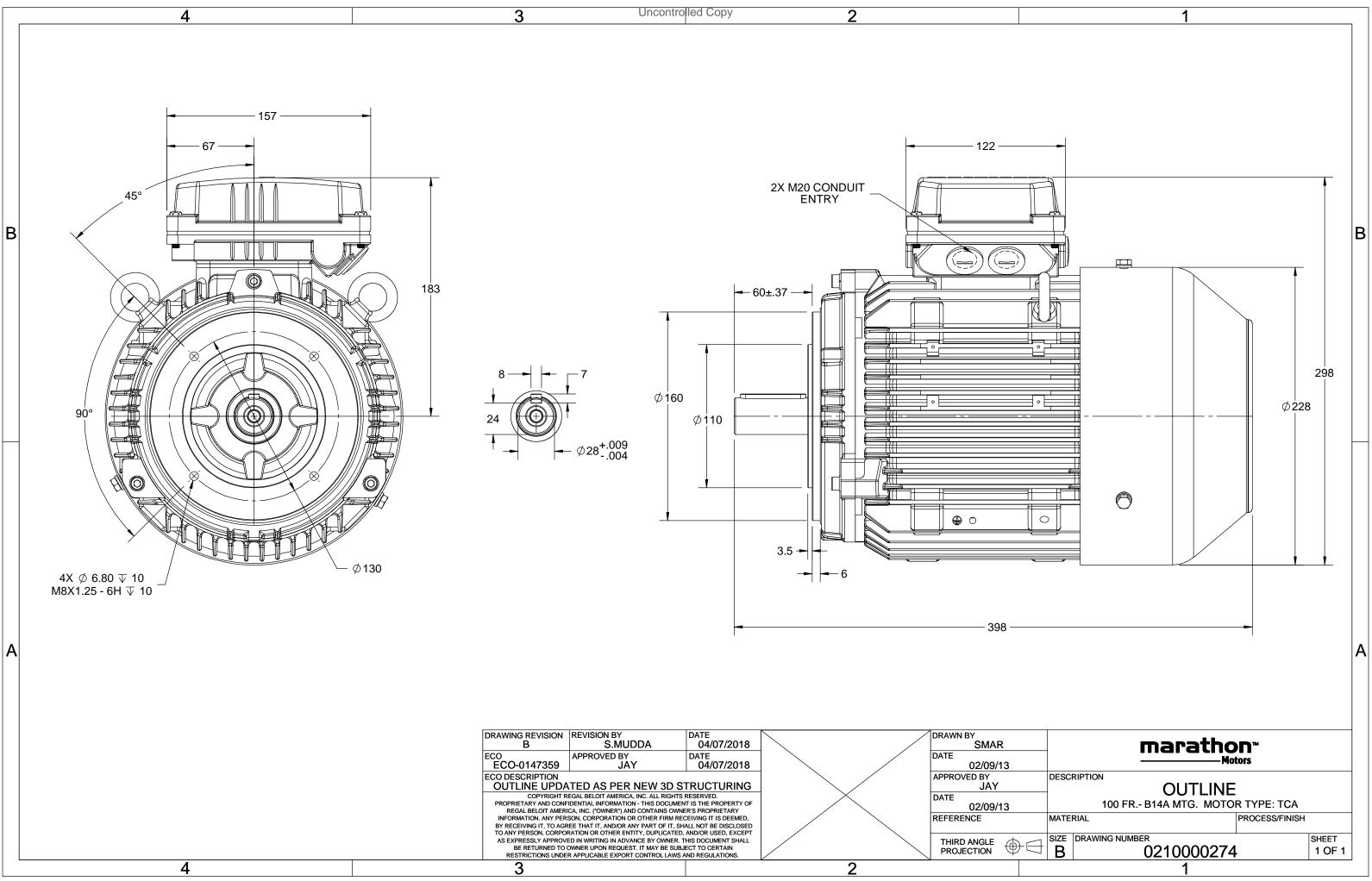
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW		
Frequency	50 Hz	Voltage	400 V		
Current	4.4 A	Speed	1456 rpm		
Service Factor	1	Phase	3		
Efficiency	86.7 %	Power Factor	0.84		
Duty	S1	Insulation Class	F		
Frame	100L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206		
UL	No	CSA	No		
CE	Yes	IP Code	66		
Number of Speeds	4	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	398 mm	Frame Length	200 mm	
Shaft Diameter	28 mm	Shaft Extension	60 mm	
Assembly/Box Mounting	Тор			
Connection Drawing	8442000085	Outline Drawing	0210000274	

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Model No. TCT2P22A1171GAA001

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	2.2	3	4.4	1456	14.67	IE3	-	86.7	86.7	85.1	0.84	0.77	0.65	7	2.3	2.9

Motor type	тст		Degree of protection	IP 66	
Enclosure	TEFC		Mounting type	IM B14A	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	100L		Motor weight - approx.	39	kg
Duty	S1		Gross weight - approx.	42	kg
Voltage variation *	± 10%		Motor inertia	0.0115	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) 55	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	6206-2Z / 6206-2Z		Terminal box position	ТОР	
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

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Global IEC

IEC: 60034-30

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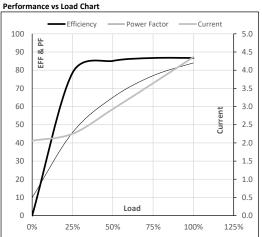


Model No. TCT2P22A1171GAA001

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	4.4	1456	1.50	14.67	IE3	40	S1	1000	0.0115	39
		-													

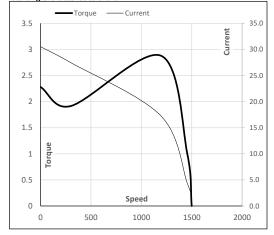
Motor Load Data

2.1	2.3	2.9	3.6	4.4	
0.0					
0.0	3.6	7.2	10.9	14.7	
1500	1490	1480	1469	1456	
0.0	78.5	85.1	86.7	86.7	
9.9	45.7	65.0	77.0	84.0	
	1500 0.0	1500 1490 0.0 78.5	1500 1490 1480 0.0 78.5 85.1	1500 1490 1480 1469 0.0 78.5 85.1 86.7	1500 1490 1480 1469 1456 0.0 78.5 85.1 86.7 86.7



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	300	1194	1456	1500							
Current	А	30.5	27.5	17.3	4.4	2.1							
Torque	pu	2.3	1.9	2.9	1	0							

Starting Characteristics Chart



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

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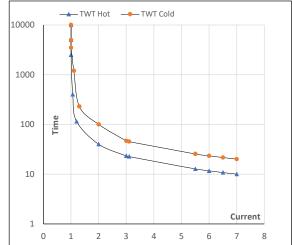
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	2.2	3.0	4.4	1456	1.50	14.67	IE3	40	S1	1000	0.0115	39

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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