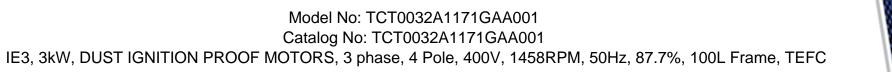
PRODUCT INFORMATION PACKET





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FRegal Rexnord

Product Information Packet: Model No: TCT0032A1171GAA001, Catalog No:TCT0032A1171GAA001 IE3, 3kW, DUST IGNITION PROOF MOTORS, 3 phase, 4 Pole, 400V, 1458RPM, 50Hz, 87.7%, 100L Frame, TEFC

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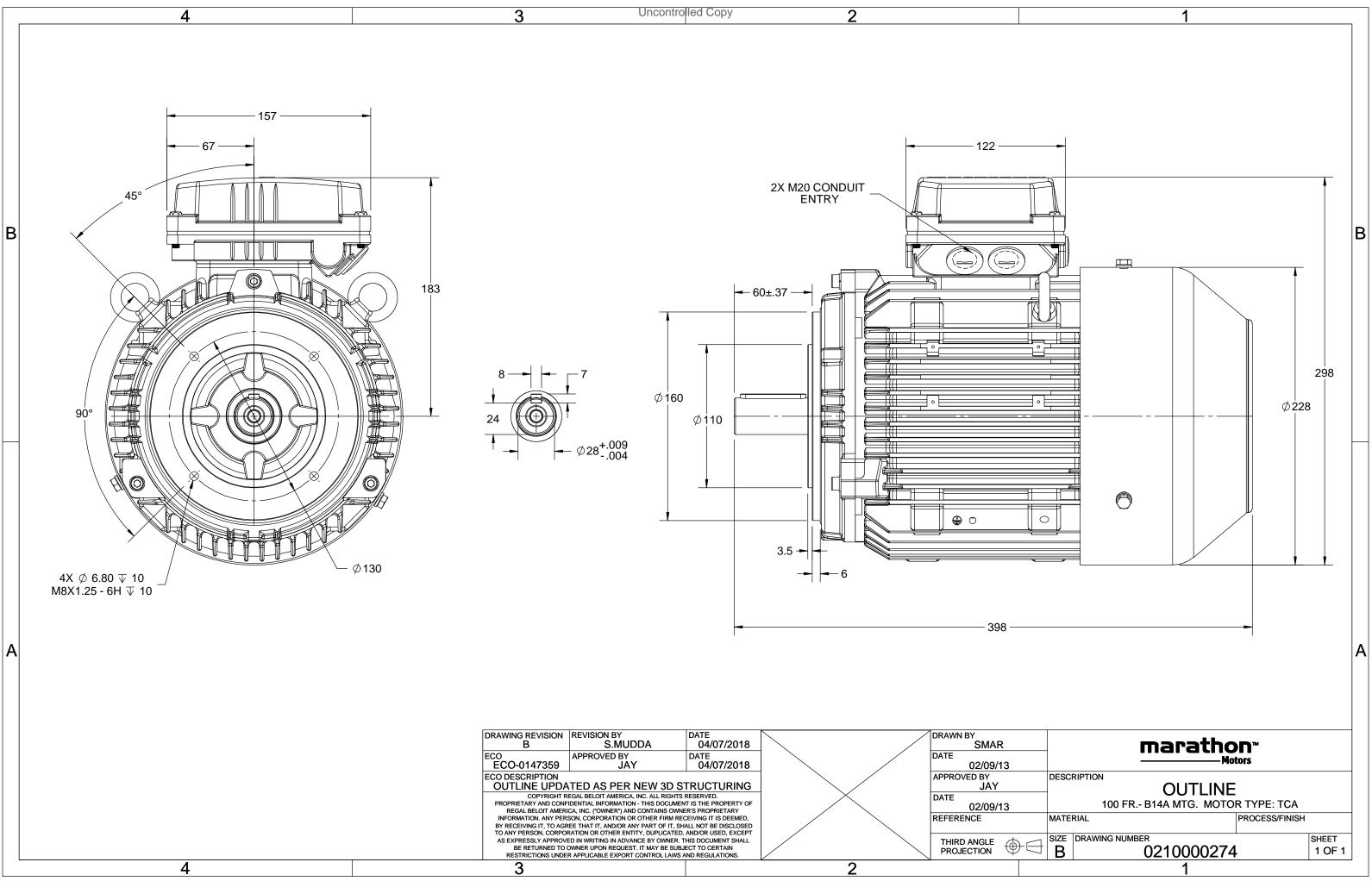
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	400 V
Current	5.9 A	Speed	1458 rpm
Service Factor	1	Phase	3
Efficiency	87.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
			-
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6206	Ambient Temperature Opp Drive End Bearing Size	•
			40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	40 °C 6206

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. TCT0032A1171GAA001

U	Δ / Y	f	Р	Р	I	n	т	IE	IE % EFF at load			PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$	
(∨)	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	3	4	5.9	1458	19.54	IE3	-	87.7	87.7	86.2	0.84	0.78	0.65	7.7	2.6	3.1

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.	45	kg
Duty	S1		Gross weight - approx.	48	kg
Voltage variation *	± 10%		Motor inertia	0.0145	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) 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	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. India Aus/Nz Brazil Efficiency Global IEC Europe China GB 18613-2012 Grade 2 IEC: 60034-30 Standards

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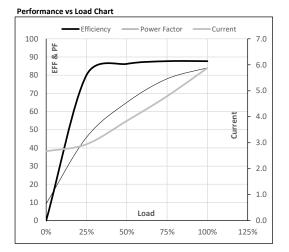


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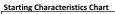
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	3	4.0	5.9	1458	1.99	19.54	IE3	40	S1	1000	0.0145	45

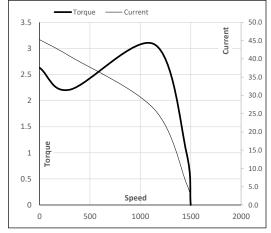
Motor Load Data

2.7	2.9	3.8	4.8	F 0	
		5.0	4.0	5.9	
0.0	4.8	9.6	14.5	19.5	
1500	1490	1480	1470	1458	
0.0	80.0	86.2	87.7	87.7	
9.3	45.8	65.0	78.0	84.0	
	1500 0.0	1500 1490 0.0 80.0	1500 1490 1480 0.0 80.0 86.2	1500 1490 1480 1470 0.0 80.0 86.2 87.7	1500 1490 1480 1470 1458 0.0 80.0 86.2 87.7 87.7



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	300	1138	1458	1500					
Current	А	45.3	40.7	26.2	5.9	2.7					
Torque	pu	2.6	2.2	3.1	1	0					





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

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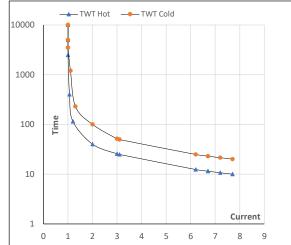
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	3	4.0	5.9	1458	1.99	19.54	IE3	40	S1	1000	0.0145	45

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	40	26	20	17	13	10
TWT Cold	S	10000	100	51	45	35	26	20
Current	pu	1	2	3	4	5	6	7.7

Thermal Characteristics Chart



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

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