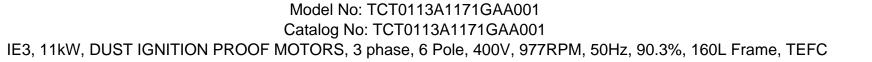
PRODUCT INFORMATION PACKET





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Motors

Fregal Rexnord

Product Information Packet: Model No: TCT0113A1171GAA001, Catalog No:TCT0113A1171GAA001 IE3, 11kW, DUST IGNITION PROOF MOTORS, 3 phase, 6 Pole, 400V, 977RPM, 50Hz, 90.3%, 160L Frame, TEFC

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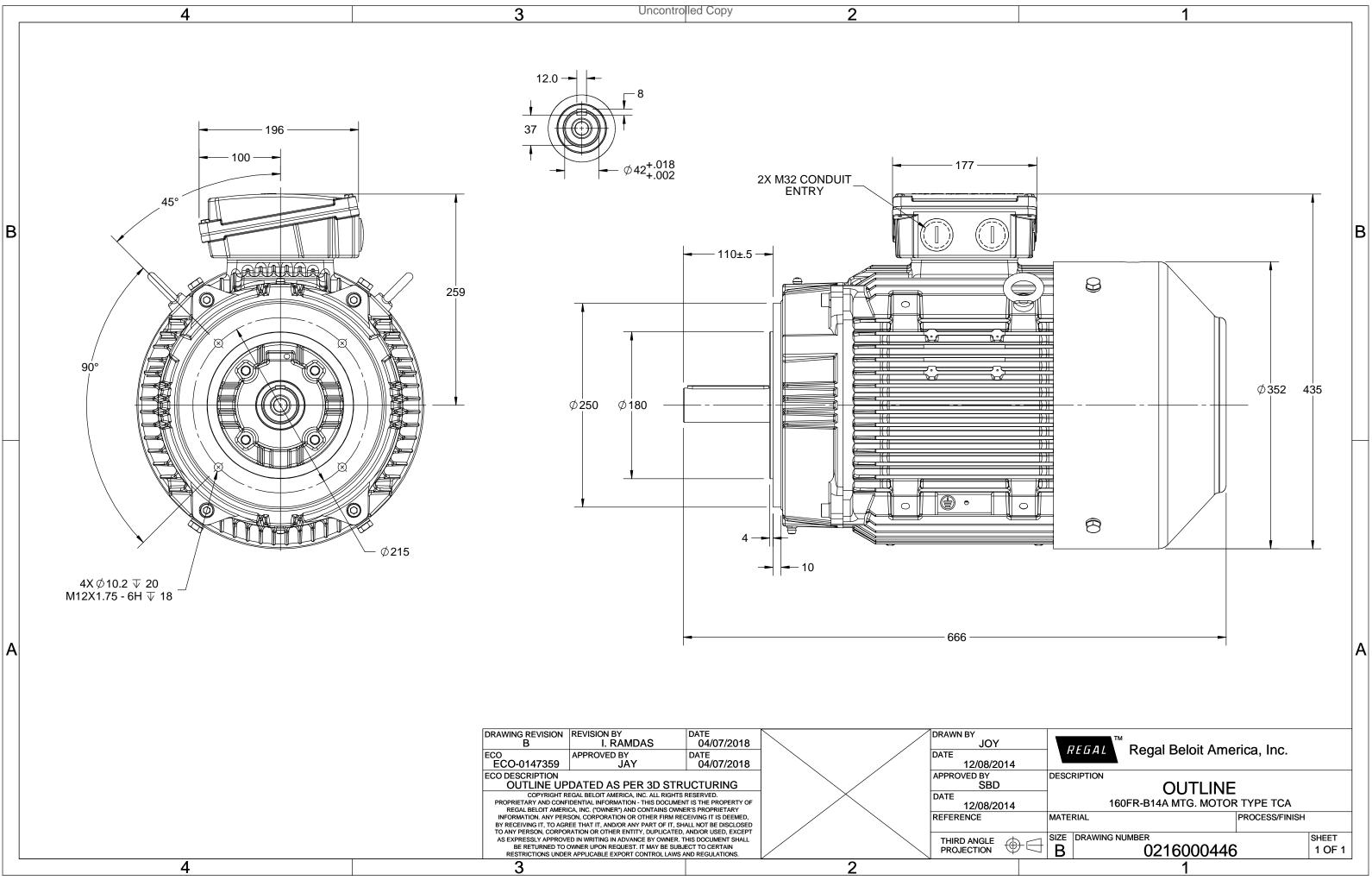
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	22.3 A	Speed	977 rpm
Service Factor	1	Phase	3
Efficiency	90.3 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
			-
Thermal Protection	No Protection	Ambient Temperature	40 °C
	No Protection 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209
Thermal Protection			
Thermal Protection Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	666 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000446

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Α

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Model No. TCT0113A1171GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	6 EFF at	t loac	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	Δ	50	11	15	22.3	977	109.33	IE3	-	90.3	90.3	89.6	0.79	0.73	0.59	5.6	2.0	2.6

Motor type	тст		Degree of protection	IP 66	
Enclosure	TEFC		Mounting type	IM B14A	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	160L		Motor weight - approx.	164	kg
Duty	S1		Gross weight - approx.	184	kg
Voltage variation *	± 10%		Motor inertia	0.1811	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.2	mm/s
Design	Ν		Noise level (1meter distance from mot	or) 61	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	6309-2Z / 6209-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 35mm²/2 X M32 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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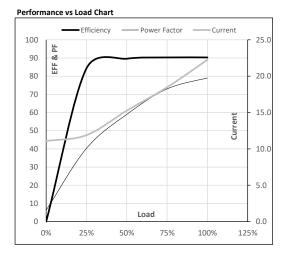


Model No. TCT0113A1171GAA001

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	Δ	50	11	15.0	22.3	977	11.15	109.33	IE3	40	S1	1000	0.1811	164

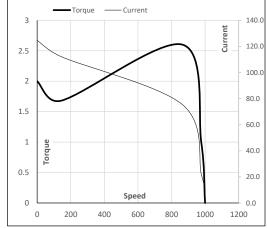
Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	11.1	11.9	15.3	18.5	22.3	
Torque	Nm	0.0	26.9	54.0	81.5	109.3	
Speed	r/min	1000	995	989	984	977	
Efficiency	%	0.0	84.3	89.6	90.3	90.3	
Power Factor	%	6.3	40.3	59.0	73.0	79.0	
Power Factor	%	6.3	40.3	59.0	73.0	79.0	



Motor Speed	Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	143	866	977	1000						
Current	А	124.6	112.2	75.3	22.3	11.1						
Torque	pu	2.0	1.7	2.6	1	0						





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

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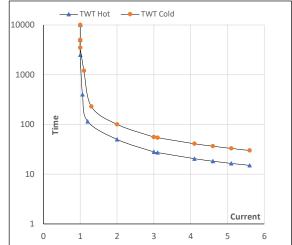
Model No. TCT0113A1171GAA001

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	Δ	50	11	15	22.3	977	11.15	109.33	IE3	40	S1	1000	0.1811	164

Motor Speed Torque Data

Load		FL	I_1	I ₂	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	50	28	25	17	16	15
TWT Cold	S	10000	100	56	50	35	32	30
Current	pu	1	2	3	4	5	5.5	5.6

Thermal Characteristics Chart



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

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