PRODUCT INFORMATION PACKET

Model No: TCE18P2A2121GAA001 Catalog No: TCE18P2A2121GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 25 HP, 3 Ph, 50 Hz, 400 V, 1477 RPM, 180M Frame



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Motors

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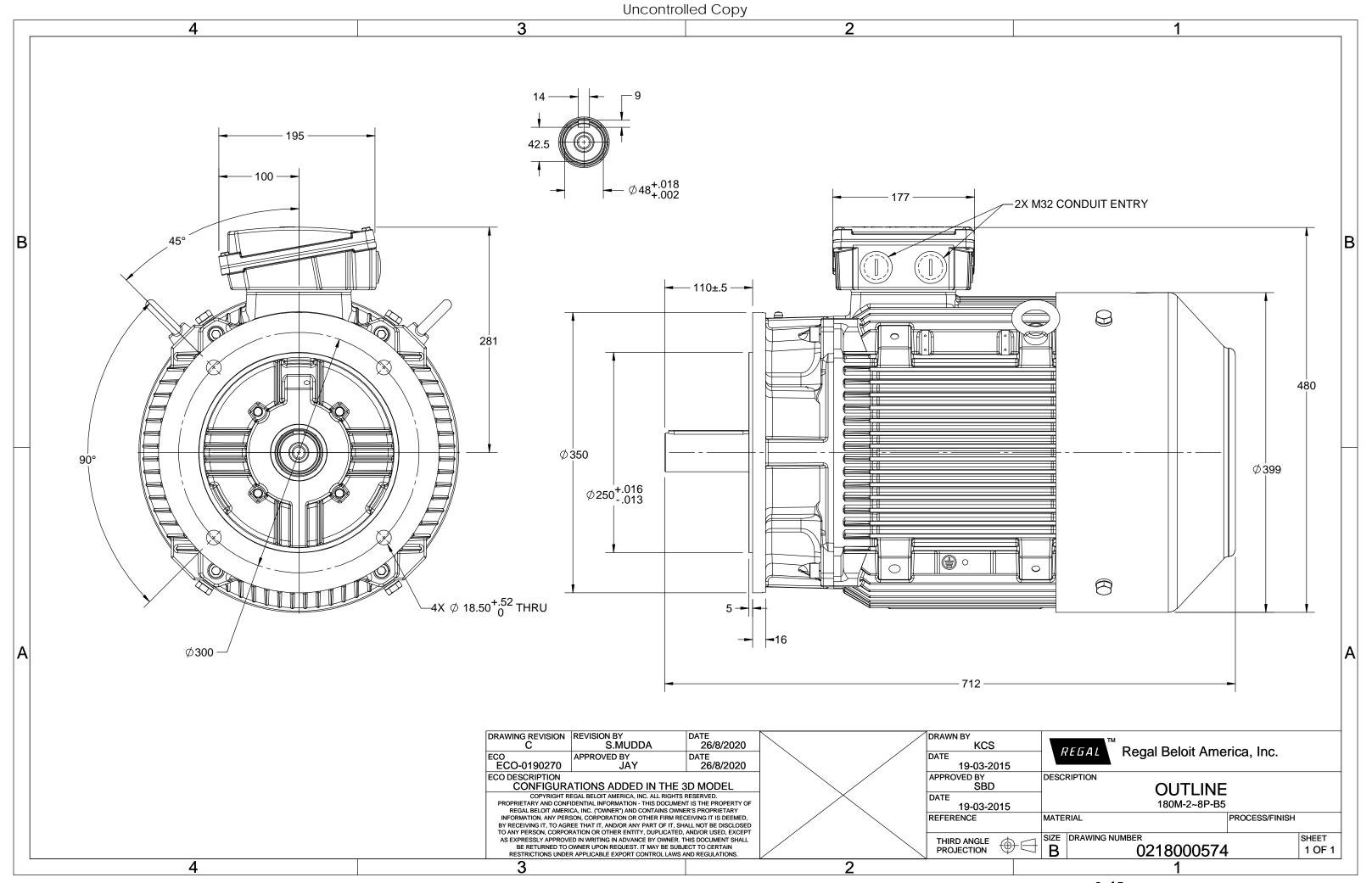
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	35.8 A	Speed	1477 rpm
Service Factor	1	Phase	3
Efficiency	92.6 %	Power Factor	0.81
Duty	S1	Insulation Class	F
Frame	180M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
UL	No	CSA	No
CE	Yes	IP Code	IP55
Number of Speeds	3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	712 mm	Frame Length	328 mm
Shaft Diameter	48.000 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0218000574	Connection Drawing	8442000085

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Model No. TCE18P2A2121GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	% EFF at load		PF at load			I _A /I _N	T_{A}/T_{N}	T _K /T _N		
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class			 3/4FL			 3/4FL		[pu]	[pu]	[pu]
400	Δ	50	18.5	25.0	35.8	1477	120.52	IE3	-	92.6	92.6	92.5	0.81	0.74	0.61	7.1	2.4	3.5

Motor type	TCE		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B5	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	180M		Motor weight - approx.	214	kg
Duty	S1		Gross weight - approx.	234	kg
Voltage variation *	± 10%		Motor inertia	0.2108	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) 64	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-15 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance)	70 [Class B]	К	tE time	20	s
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	Ex eb		Standard rotation	Clockwise form DE	
Zone classification	Zone 1		Paint shade	RAL 7016	
Gas group	IIC		Accessories		
Temperature class	Т3		Accessory - 1	PTC 150°C	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6311-2Z / 6211-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size 1	R x 3C x 35mm²/2 X M32 x 1.5	
Type of grease	NA		Auxiliary terminal box	NA	

 I_A/I_N - Locked Rotor Current / Rated Current

NOTE

Standards

 $T_{\text{A}}/T_{\text{N}}$ - Locked Rotor Torque / Rated Torque

IEC:60034-30-1

 $\rm T_{\rm K}/\rm T_{\rm N}$ - Breakdown Torque / Rated Torque

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ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-7 All performance values at rated voltage and frequency. All performance parameters are subjected to standard tolerance as per IEC 60034-1 * Voltage, Frequency and combined variation are as per IEC60034-1 Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures. India Brazil Efficiency Europe China Aus/Nz Global IEC

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IEC:60034-30-1