PRODUCT INFORMATION PACKET

Model No: TCE0114A2121GAA001 Catalog No: TCE0114A2121GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 15 HP, 3 Ph, 50 Hz, 400 V, 739 RPM, 180L Frame



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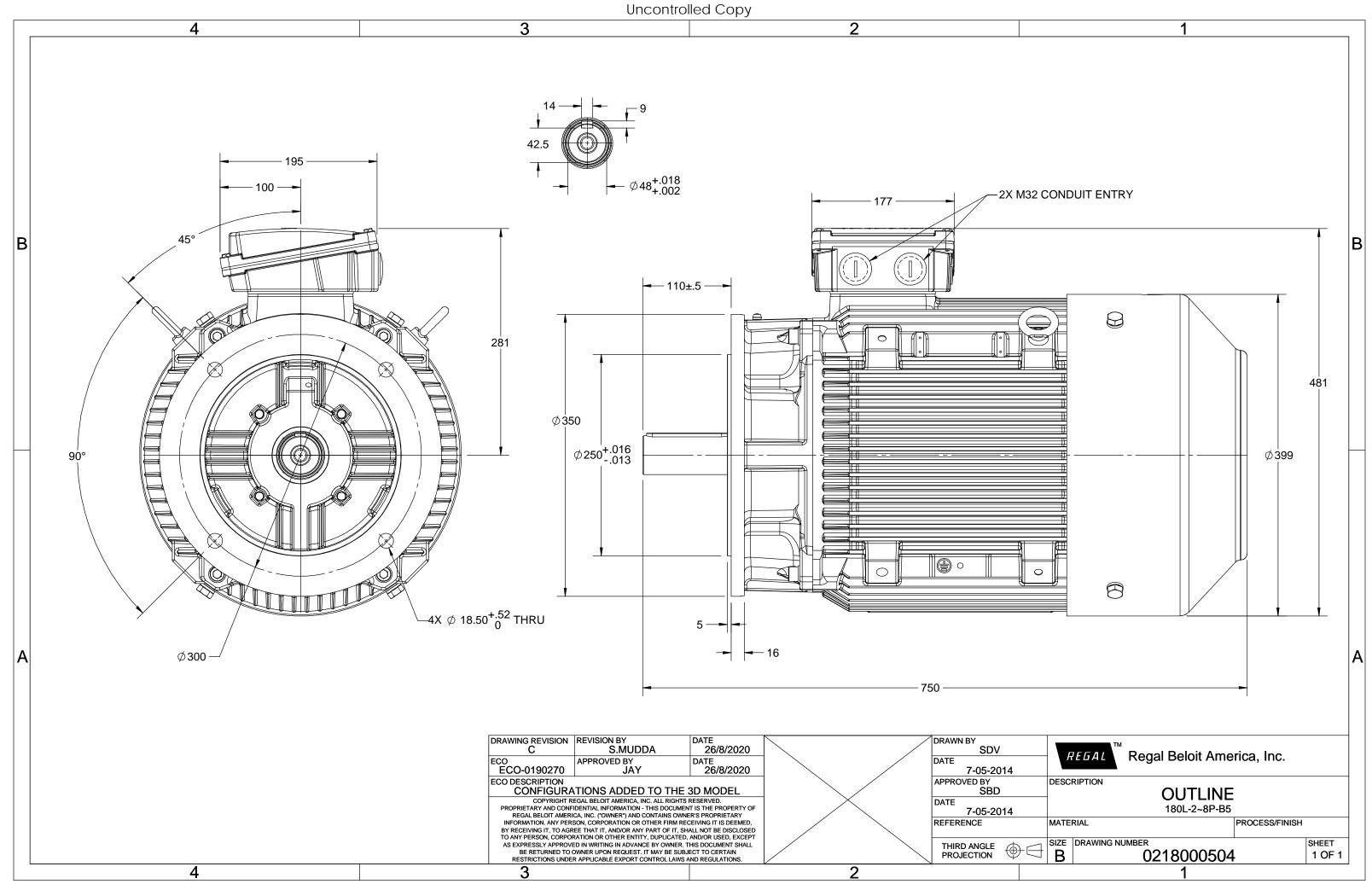
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	34.2 A	Speed	739 rpm
Service Factor	1	Phase	3
Efficiency	89.6 %	Power Factor	0.7
Duty	S1	Insulation Class	F
Frame	180L	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	8	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	750 mm	Frame Length	366 mm
Shaft Diameter	48.000 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0218000504

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kg kg kgm²

mm/s dB(A)

s

Model No. TCE0114A2121GAA001

U	Δ / Y	f	Р	Р	I	n	т	IE	9	6 EFF a	t load	ł	PF	at _ lo	bad	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	Δ	50	11	15.0	24.5	730	146.51	IE3	-	88.6	88.6	89.4	0.73	0.66	0.53	6.5	1.8	3.0

Motor type	TCE		Degree of protection	IP 55
Enclosure	TEFC		Mounting type	IM B5
Frame Material	Cast Iron		Cooling method	IC 411
Frame size	180L		Motor weight - approx.	229
Duty	S1		Gross weight - approx.	249
Voltage variation *	± 10%		Motor inertia	0.3337
Frequency variation *	± 5%		Load inertia	Customer to Provide
Combined variation *	10%		Vibration level	2.2
Design	Ν		Noise level (1meter distance from mot	or) 60
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	e) 70 [Class B]	к	tE time	20
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 bearing		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

 $T_{\text{A}}/T_{\text{N}}$ - 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 60079-7

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 da	ta are subject to chai	nge. There may be slight v	variations between calculated	values in this datash	eet and the motor na	meplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC:60034-30-1		-	-	-	IEC:60034-30-1

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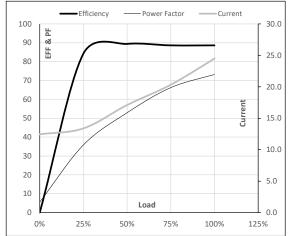
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	24.5	730	14.94	146.51	IE3	40	S1	1000	0.3337	229

Motor Load Data

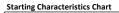
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	12.5	13.4	17.1	20.3	24.5	
Torque	Nm	0.0	48.7	97.9	147.9	146.5	
Speed	r/min	750	745	741	736	730	
Efficiency	%	0.0	84.3	89.4	88.6	88.6	
Power Factor	%	5.5	35.9	52.9	66.2	73.2	

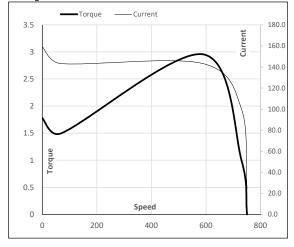
Performance vs Load Chart



Motor Speed Torque Data

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Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	68	588	730	750	
Current	А	159.2	143.3	100.1	24.5	12.5	
Torque	pu	1.8	1.5	3.0	1	0	





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

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