PRODUCT INFORMATION PACKET

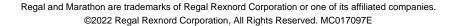


Model No: TCE0554A2121GAA001 Catalog No: TCE0554A2121GAA001

TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 75 HP, 3 Ph, 50 Hz, 400 V,

743 RPM, 315S Frame









Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	400 V
Current	119.6 A	Speed	743 rpm
Service Factor	1	Phase	3
Efficiency	92.5 %	Power Factor	0.7
Duty	S1	Insulation Class	F
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
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	1206 mm	Frame Length	729 mm
Shaft Diameter	80.000 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500892	Connection Drawing	8442000085

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

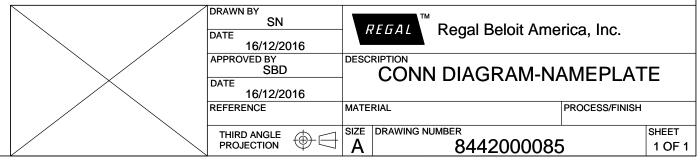
GEOMENTRIC TOLERANCE							
LINEAR DIM	>0~6	±0.1					
	>6~30	±0.2					
	>30~120	±0.3					



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







Model No. TCE0554A2121GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load	t	PF	at lo	oad	I _A /I _N	T _A /T _N	T _K /T _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	55	75.0	119.6	743	719.95	IE3	-	92.5	92.5	92.3	0.72	0.65	0.52	4.7	1.8	2.1

Motor type	r type TCE		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B5	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	315\$		Motor weight - approx.	889	kg
Duty	S1		Gross weight - approx.	934	kg
Voltage variation *	± 10%		Motor inertia	3.7895	kgm²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	N		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 resist	ance) 70 [Class B]	K	tE time	20	S
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	on 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	6319 C3 / 6319 C3		Terminal box position	TOP	
Lubrication method	Regreasable		Maximum cable size/conduit size 1	R x 3C x 240mm ² /2 x M63 x 1.5	
Type of grease	Shell Gadus S5 V100 or Equivalent		Auxiliary terminal box	NA	

I_A/I_N - Locked Rotor Current / Rated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - 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 $\,$

Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC:60034-30-1		-	-	-	IEC:60034-30-1

REGAL

^{*} Voltage, Frequency and combined variation are as per IEC60034-1