PRODUCT INFORMATION PACKET



Model No: TCE0904A2121GAA001 Catalog No: TCE0904A2121GAA001

TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 120 HP, 3 Ph, 50 Hz, 400 V,

743 RPM, 315L Frame



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Nameplate Specifications

Output HP	120 Hp	Output KW	90.0 kW	
Frequency	50 Hz	Voltage	400 V	
Current	189.8 A	Speed	743 rpm	
Service Factor	1	Phase	3	
Efficiency	93.4 %	Power Factor	0.7	
Duty	S1	Insulation Class	F	
Frame	315L	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	1317 mm	Frame Length	840 mm
Shaft Diameter	65.000 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500897

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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							
	>0~6	±0.1					
LINEAR DIM	>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. TCE0904A2121GAA001

U	Δ/Υ	f	Р	Р	I	n	T	IE	9	6 EFF at	t load	t 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	90	120.0	189.8	743	1151.38	IE3	-	93.4	93.4	92.6	0.73	0.68	0.55	4.9	1.9	2.1

Motor type	pe TCE		Degree of protection	IP 55		
Enclosure	TEFC		Mounting type	IM B5		
Frame Material	Cast Iron		Cooling method IC 411			
Frame size	ze 315L N		Motor weight - approx.	909	kg	
Duty	S1		Gross weight - approx.	954	kg	
Voltage variation *	± 10%		Motor inertia	5.6618	kgm ²	
Frequency variation *	± 5%		Load inertia	Customer to Provide		
Combined variation *	10%		Vibration level	2.8	mm/s	
Design	N		Noise level (1meter distance from moto	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 resis	tance) 70 [Class B]	K	tE time	15	S	
Altitude above sea level 1000		meter	Direction of rotation	Bi-directional		
Hazardous area classificati	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 1R	x 3C x 240mm²/2 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