

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W22Xec IE2 Three-Phase		Product code : 12859423			
Area classification : ZONA 2/22, GRUPO IIC/IIIB, T3(200 °C)/ T125 °C		Catalog # : E0.1836EP3WAX63F3-W2			
Frame : 63	Output : 0.18 kW (0.25 HP)	Locked rotor time : 27s (cold) 15s (hot)	Temperature rise : 80 K		
Poles : 2	Frequency : 50 Hz	Duty cycle : S1	Ambient temperature : -20°C to +40°C		
Rated voltage : 220/380 V	Rated current : 0.915/0.530 A	Altitude : 1000 m.a.s.l.	Protection degree : IP55		
L. R. Amperes : 4.49/2.60 A	LRC : 4.9	Cooling method : IC411 - TEFC	Mounting : B3T		
No load current : 0.605/0.350 A	Rated speed : 2800 rpm	Rotation ¹ : Both (CW and CCW)	Noise level ² : 52.0 dB(A)		
Slip : 6.67 %	Rated torque : 0.453 ft.lb	Starting method : Direct On Line	Approx. weight ³ : 20.2 lb		
Locked rotor torque : 229 %	Breakdown torque : 229 %				
Insulation class : F	Service factor : 1.00				
Moment of inertia (J) : 0.0033 sq.ft.lb	Design : N				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	58.0 57.0	63.0 62.0	64.0 64.0	Max. traction : 6 lb	
	55.0 55.9	60.9 59.4	63.6 65.0		
Power Factor	0.59 0.55	0.72 0.68	0.81 0.77	Max. compression : 26 lb	
	0.53 0.55	0.65 0.65	0.75 0.74		
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	54.1	54.1	55.1	51.8
	P2 (0,5;1,0)	48.2	48.2	49.1	46.2
	P3 (0,25;1,0)	49.0	49.0	49.9	46.9
	P4 (0,9;0,5)	34.8	34.8	35.4	33.3
	P5 (0,5;0,5)	23.3	23.3	23.7	22.3
	P6 (0,5;0,25)	19.8	19.8	20.1	18.9
	P7 (0,25;0,25)	13.3	13.3	13.5	12.7
Bearing type :	<u>Drive end</u>	<u>Non drive end</u>			
Sealing :	6201 ZZ	6201 ZZ			
Lubrication interval :	V'Ring	V'Ring			
Lubricant amount :	-	-			
Lubricant type :	Mobil Polyrex EM				
Notes:					
ATEX					
Baseefa 10ATEX0192X					
BAS21UKEX0284X					
II 3G Ex ec IIC T3 Gc					
II 3D Ex tc IIIB T125°C Dc					
EAC					
TC RU C-BR.AA87.B.00977/22					
2Ex ec IIC T3 Gc X					
Ex tc IIIB T125°C Dc X					
ООО «НАИИО ЦСБЭ»					
IECEX					
IECEX BAS 10.0099X					
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Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	140 °C
2	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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