

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 12639231

Catalog # : E00236EP3WAX90LF3-W2

Area classification : ZONA 2/22, GRUPO IIC/IIIB, T3(200 °C)/T125 °C

Frame : 90L
Output : 2.2 kW (3 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 8.17/4.73 A
L. R. Amperes : 53.1/30.7 A
LRC : 6.5
No load current : 3.63/2.10 A
Rated speed : 2860 rpm
Slip : 4.67 %
Rated torque : 5.42 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 270 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.0524 sq.ft.lb
Design : N

Locked rotor time : 16s (cold) 9s (hot)
Temperature rise : 80 K
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : B3T
Rotation¹ : Both (CW and CCW)
Noise level² : 64.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 50.4 lb

Output	25%		50%		75%		100%	
Efficiency (%)	83.7	82.7	83.7	83.0	83.5	83.6	83.2	83.6
	81.5	81.0	82.0	82.5	83.4	84.0	83.6	85.5
Power Factor	0.42	0.36	0.69	0.60	0.80	0.75	0.85	0.82
	0.31	0.35	0.55	0.59	0.69	0.72	0.79	0.80

Foundation loads
Max. traction : 140 lb
Max. compression : 191 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	20.3	19.7	19.7	17.1
	P2 (0,5;1,0)	19.2	18.6	18.6	16.1
	P3 (0,25;1,0)	17.6	17.1	17.1	14.8
	P4 (0,9;0,5)	9.0	8.8	8.8	7.6
	P5 (0,5;0,5)	6.6	6.4	6.4	5.6
	P6 (0,5;0,25)	4.3	4.1	4.1	3.6
	P7 (0,25;0,25)	3.1	3.0	3.0	2.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6205 ZZ	6204 ZZ
Sealing :		V'Ring	V'Ring
Lubrication interval :		-	-
Lubricant amount :		-	-
Lubricant type :		Mobil Polyrex EM	

Notes:

EAC
TC RU C-BR.AA87.B.00977/22
2Ex ec IIC T3 Gc X
Ex tc IIIB T125°C Dc X
OOO «НАИО ЛЦБЭ»
IECEX
IECEX BAS 10.0099X
Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 3 Revision		
Checked by				
Date	26/03/2024			

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Performed by			Page		Revision
Checked by					
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Customer :

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				3 / 3	
Date	26/03/2024				