

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code :

12639229

Catalog # :

E00112EP3WAX90LF3-W2

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

Frame : 90L
Output : 1.1 kW (1.5 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 4.80/2.78 A
L. R. Amperes : 22.6/13.1 A
LRC : 4.7
No load current : 2.50/1.45 A
Rated speed : 920 rpm
Slip : 8.00 %
Rated torque : 8.43 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 190 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.1561 sq.ft.lb
Design : N

Locked rotor time : 30s (cold) 0s (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 : 45.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 56.0 lb

Output	25%		50%		75%		100%	
Efficiency (%)	77.4	75.5	77.9	76.0	78.1	78.1	78.1	78.1
	73.1	76.5	74.3	77.0	77.3	80.0	78.1	80.0
Power Factor	0.33	0.29	0.55	0.50	0.67	0.63	0.77	0.73
	0.27	0.27	0.46	0.47	0.59	0.60	0.70	0.69

Foundation loads
Max. traction : 131 lb
Max. compression : 187 lb

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

Losses (%)	P1 (0,9;1,0)	29.5	29.5	29.5	26.3
	P2 (0,5;1,0)	30.3	30.3	30.3	27.0
	P3 (0,25;1,0)	27.1	27.1	27.1	24.2
	P4 (0,9;0,5)	13.5	13.5	13.5	12.1
	P5 (0,5;0,5)	10.9	10.9	10.9	9.7
	P6 (0,5;0,25)	7.7	7.7	7.7	6.9
	P7 (0,25;0,25)	5.9	5.9	5.9	5.3

		<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
ООО «НАИО ЛЦБЭ»
IECEX
IECEX BAS 10.0099X
Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

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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

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