

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code :

14387245

Catalog # :

E00152EP3WAX100LF3-W

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

Frame : 100L
Output : 1.5 kW (2 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 6.49/3.76 A
L. R. Amperes : 30.5/17.7 A
LRC : 4.7
No load current : 3.45/2.00 A
Rated speed : 930 rpm
Slip : 7.00 %
Rated torque : 11.4 ft.lb
Locked rotor torque : 190 %
Breakdown torque : 210 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.2603 sq.ft.lb
Design : N

Locked rotor time : 41s (cold) 23s (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 : 44.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 62.8 lb

Output	25%		50%		75%		100%	
Efficiency (%)	80.5	79.1	80.7	79.5	80.1	80.0	79.8	80.0
	77.4	77.6	78.3	80.0	79.7	81.5	80.3	84.0
Power Factor	0.33	0.29	0.55	0.51	0.69	0.64	0.76	0.73
	0.27	0.28	0.48	0.49	0.61	0.61	0.70	0.70

Foundation loads
Max. traction : 164 lb
Max. compression : 227 lb

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

Losses (%)	P1 (0,9;1,0)	26.0	25.7	25.2	19.6
	P2 (0,5;1,0)	26.0	25.7	25.2	19.6
	P3 (0,25;1,0)	24.2	23.9	23.5	18.2
	P4 (0,9;0,5)	11.3	11.2	11.0	8.5
	P5 (0,5;0,5)	9.3	9.2	9.1	7.0
	P6 (0,5;0,25)	6.3	6.2	6.1	4.7
	P7 (0,25;0,25)	5.1	5.0	4.9	3.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6206 ZZ	6205 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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