

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 14351682

Catalog # : E00212EP3YAX112MF3-W

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

Frame : 112M
Output : 2.2 kW (3 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 5.46/3.14 A
L. R. Amperes : 30.0/17.3 A
LRC : 5.5
No load current : 2.70/1.55 A
Rated speed : 945 rpm
Slip : 5.50 %
Rated torque : 16.4 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.6091 sq.ft.lb
Design : N

Locked rotor time : 30s (cold) 17s (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 : 49.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 102 lb

Output	25%		50%		75%		100%	
Efficiency (%)	81.3	80.2	82.0	81.0	82.4	82.5	82.8	83.0
	78.9	82.1	80.0	84.1	82.1	85.5	83.0	87.5
Power Factor	0.33	0.30	0.54	0.50	0.67	0.63	0.74	0.71
	0.27	0.28	0.47	0.48	0.60	0.60	0.69	0.68

Foundation loads
Max. traction : 242 lb
Max. compression : 343 lb

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

Losses (%)	P1 (0,9;1,0)	20.8	20.5	20.5	14.3
	P2 (0,5;1,0)	20.0	19.8	19.8	13.8
	P3 (0,25;1,0)	19.1	18.9	18.9	13.2
	P4 (0,9;0,5)	9.0	8.9	8.9	6.2
	P5 (0,5;0,5)	7.3	7.2	7.2	5.0
	P6 (0,5;0,25)	4.8	4.7	4.7	3.3
	P7 (0,25;0,25)	3.9	3.8	3.8	2.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6207 ZZ	6206 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

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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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