

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code :

12382436

Catalog # :

E00436EP3YAX112MF3-W

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

Frame : 112M
Output : 4 kW (5.5 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 8.05/4.63 A
L. R. Amperes : 53.9/31.1 A
LRC : 6.7
No load current : 2.60/1.50 A
Rated speed : 2875 rpm
Slip : 4.17 %
Rated torque : 9.81 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.2079 sq.ft.lb
Design : N

Locked rotor time : 25s (cold) 14s (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 : 92.9 lb

Output	25%		50%		75%		100%	
Efficiency (%)	86.5	85.8	86.6	86.0	86.0	86.0	85.8	86.0
	84.7	82.8	85.3	84.0	85.9	86.5	86.3	87.5
Power Factor	0.53	0.48	0.78	0.73	0.86	0.83	0.88	0.88
	0.44	0.46	0.69	0.71	0.80	0.81	0.86	0.86

Foundation loads
Max. traction : 133 lb
Max. compression : 226 lb

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

Losses (%)	P1 (0,9;1,0)	16.8	16.5	16.1	14.5
	P2 (0,5;1,0)	15.5	15.2	14.8	13.4
	P3 (0,25;1,0)	13.4	13.2	12.9	11.6
	P4 (0,9;0,5)	7.4	7.2	7.1	6.4
	P5 (0,5;0,5)	5.1	5.0	4.9	4.4
	P6 (0,5;0,25)	3.0	2.9	2.8	2.6
	P7 (0,25;0,25)	2.1	2.1	2.0	1.8

		<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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