

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 12381622

Catalog # : E00418EP3YAX112MF3-W

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

Frame : 112M
Output : 4 kW (5.5 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 8.56/4.93 A
L. R. Amperes : 52.2/30.1 A
LRC : 6.1
No load current : 3.50/2.02 A
Rated speed : 1430 rpm
Slip : 4.67 %
Rated torque : 19.7 ft.lb
Locked rotor torque : 190 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.3695 sq.ft.lb
Design : N

Locked rotor time : 19s (cold) 11s (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 : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 95.6 lb

Output	25%		50%		75%		100%	
Efficiency (%)	86.2	85.7	86.5	86.0	86.6	86.7	86.6	86.7
	84.6	85.1	85.3	85.5	86.6	87.5	87.0	87.5
Power Factor	0.43	0.38	0.67	0.62	0.78	0.74	0.82	0.80
	0.34	0.35	0.58	0.59	0.71	0.72	0.78	0.79

Foundation loads
Max. traction : 282 lb
Max. compression : 378 lb

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

Losses (%)	P1 (0,9;1,0)	16.0	15.9	15.5	14.8
	P2 (0,5;1,0)	15.7	15.5	15.1	14.5
	P3 (0,25;1,0)	13.6	13.5	13.2	12.6
	P4 (0,9;0,5)	6.3	6.2	6.1	5.8
	P5 (0,5;0,5)	5.0	5.0	4.9	4.6
	P6 (0,5;0,25)	3.0	3.0	2.9	2.7
	P7 (0,25;0,25)	2.3	2.3	2.2	2.2

		<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

Rev.	Changes Summary	Performed	Checked	Date
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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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