

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 13349186
Catalog # : E00412EP3YAX132MF3-W

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

Frame : 132M
Output : 4 kW (5.5 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 9.71/5.59 A
L. R. Amperes : 53.4/30.7 A
LRC : 5.5
No load current : 4.70/2.71 A
Rated speed : 960 rpm
Slip : 4.00 %
Rated torque : 29.4 ft.lb
Locked rotor torque : 170 %
Breakdown torque : 200 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 1.07 sq.ft.lb
Design : N

Locked rotor time : 37s (cold) 21s (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 : 53.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 144 lb

Output	25%		50%		75%		100%	
Efficiency (%)	85.0	83.7	84.9	84.0	85.0	84.8	84.6	84.8
	82.3	82.8	83.0	84.0	84.4	86.5	84.9	87.5
Power Factor	0.33	0.30	0.55	0.51	0.68	0.64	0.74	0.72
	0.27	0.28	0.47	0.48	0.61	0.61	0.69	0.69

Foundation loads
Max. traction : 322 lb
Max. compression : 466 lb

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

Losses (%)	P1 (0,9;1,0)	18.2	17.9	17.7	14.3
	P2 (0,5;1,0)	17.5	17.3	17.1	13.7
	P3 (0,25;1,0)	17.1	16.8	16.7	13.4
	P4 (0,9;0,5)	8.0	7.9	7.8	6.3
	P5 (0,5;0,5)	6.5	6.4	6.3	5.1
	P6 (0,5;0,25)	4.3	4.2	4.2	3.4
	P7 (0,25;0,25)	3.5	3.4	3.4	2.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6308 ZZ	6207 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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