

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code :

14253956

Catalog # :

E00418ET3YAX112MF3-W

Area classification : ZONA 1, GRUPO IIB, T4 (135 °C)

Frame : 112M
Output : 4 kW (5.5 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 8.68/5.00 A
L. R. Amperes : 56.4/32.5 A
LRC : 6.5
No load current : 4.70/2.71 A
Rated speed : 1445 rpm
Slip : 3.67 %
Rated torque : 19.5 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 280 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.4312 sq.ft.lb
Design : N

Locked rotor time : 27s (cold) 15s (hot)
Temperature rise : 80 K
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP56
Cooling method : IC411 - TEFC
Mounting : B3T
Rotation¹ : Both (CW and CCW)
Noise level² : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 166 lb

Output	25%		50%		75%		100%	
Efficiency (%)	86.8	86.9	87.5	87.5	88.2	88.2	88.6	88.6
	86.4	87.2	87.0	87.5	88.2	89.5	88.6	89.5
Power Factor	0.36	0.31	0.62	0.53	0.71	0.69	0.79	0.75
	0.28	0.28	0.50	0.50	0.63	0.63	0.72	0.73

Foundation loads
Max. traction : 297 lb
Max. compression : 463 lb

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

Losses (%)	P1 (0,9;1,0)	12.6	12.6	12.6	11.5
	P2 (0,5;1,0)	11.7	11.7	11.7	10.7
	P3 (0,25;1,0)	11.8	11.8	11.8	10.8
	P4 (0,9;0,5)	5.9	5.9	5.9	5.4
	P5 (0,5;0,5)	4.7	4.7	4.7	4.3
	P6 (0,5;0,25)	3.2	3.2	3.2	2.9
	P7 (0,25;0,25)	2.6	2.6	2.6	2.3

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6207 ZZ	6206 ZZ
Sealing :		Oil Seal	Lip Seal
Lubrication interval :		-	-
Lubricant amount :		-	-
Lubricant type :		Mobil Polyrex EM	

Notes:

ATEX
INERIS 22ATEX0025X
CML 23UKEX1256X
II 2G Ex db IIB T4 Gb
EAC
EA3C RU C-BR.AA87.B.00379/20
1Ex db IIB T4 Gb X
ООО «НАННО ЛСВЭ»
IECEX
IECEX INE 22.0044X
Ex db IIB T4 Gb

Rev.	Changes Summary	Performed	Checked	Date
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			Revision	

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	150 °C

Space heater information

Voltage: 200 - 240 V

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