

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code :

12383800

Catalog # :

E00418XP3YAX112MF3-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 : 8.56/4.93 A
L. R. Amperes : 52.2/30.1 A
LRC : 6.1
No load current : 4.30/2.48 A
Rated speed : 1450 rpm
Slip : 3.33 %
Rated torque : 19.4 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 : 18s (cold) 10s (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 : 167 lb

Output	25%		50%		75%		100%	
Efficiency (%)	86.3	85.7	86.5	86.0	86.6	86.7	86.6	86.7
	84.7	85.2	85.3	85.5	86.6	87.5	87.0	87.5
Power Factor	0.38	0.34	0.65	0.61	0.76	0.73	0.82	0.80
	0.32	0.33	0.58	0.58	0.70	0.70	0.77	0.77

Foundation loads
Max. traction : 245 lb
Max. compression : 412 lb

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

Losses (%)	P1 (0,9;1,0)	15.3	15.2	14.8	14.2
	P2 (0,5;1,0)	14.7	14.6	14.2	13.6
	P3 (0,25;1,0)	14.6	14.5	14.1	13.5
	P4 (0,9;0,5)	6.9	6.8	6.7	6.4
	P5 (0,5;0,5)	5.4	5.4	5.3	5.0
	P6 (0,5;0,25)	3.7	3.6	3.6	3.4
	P7 (0,25;0,25)	2.9	2.8	2.8	2.6

		<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:

EAC
EA3C RU C-BR.AA87.B.00379/20
1Ex db IIB T4 Gb X
ООО «НАННО ЦСБЭ»
IECEX
IECEX INE 22.0044X
Ex db IIB T4 Gb

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +3dB(A).

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

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Customer :

(3) Approximate weight subject to changes after manufacturing process.
(4) At 100% of full load.

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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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