

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12383851  
Catalog # : E00212XT3YAX112MF3-W

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

Frame	: 112M	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 2.2 kW (3 HP)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380-400-415/660-690 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.57-5.29-5.10/3.21-3.07 A	Protection degree	: IP56
L. R. Amperes	: 36.2-34.4-33.1/20.8-19.9 A	Cooling method	: IC411 - TEFC
LRC	: 6.5	Mounting	: B3T
No load current	: 3.16-3.00-2.89/1.82-1.74 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 960 rpm	Noise level <sup>2</sup>	: 49.0 dB(A)
Slip	: 4.00 %	Starting method	: Direct On Line
Rated torque	: 16.2 ft.lb	Approx. weight <sup>3</sup>	: 169 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.6091 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	82.6	83.0	84.5	84.5	Max. traction : 195 lb
Power Factor	0.28	0.48	0.61	0.71	Max. compression : 364 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
18.3	17.3	16.1	8.3	6.7	4.5	3.6

		<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:

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 «НАИО ЛЦБЭ»  
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).  
(3) Approximate weight subject to changes after manufacturing process.

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 :

(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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