

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code :

12383754

Catalog # :

E00436XT3YAX112MF3-W

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

Frame : 112M
Output : 4 kW (5.5 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 7.92/4.56 A
L. R. Amperes : 59.4/34.2 A
LRC : 7.5
No load current : 3.00/1.73 A
Rated speed : 2900 rpm
Slip : 3.33 %
Rated torque : 9.72 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.1906 sq.ft.lb
Design : N

Locked rotor time : 23s (cold) 13s (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 : 62.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 162 lb

Output	50%	75%	100%
Efficiency (%)	88.0 88.0	88.2 88.4	88.2 88.4
	87.5 85.5	88.0 87.5	88.4 88.5
Power Factor	0.72 0.68	0.82 0.79	0.87 0.85
	0.64 0.66	0.76 0.77	0.83 0.83

Foundation loads
Max. traction : 129 lb
Max. compression : 291 lb

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

Losses (%)	P1 (0,9;1,0)	13.3	13.1	13.1	13.0
	P2 (0,5;1,0)	12.1	11.9	11.9	11.7
	P3 (0,25;1,0)	11.1	10.9	10.9	10.8
	P4 (0,9;0,5)	6.2	6.1	6.1	6.0
	P5 (0,5;0,5)	4.4	4.3	4.3	4.3
	P6 (0,5;0,25)	2.8	2.7	2.7	2.7
	P7 (0,25;0,25)	2.0	2.0	2.0	2.0

		<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

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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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