

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12383804
Catalog # : E00418XT3YAX112MF3-W

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

Frame	: 112M	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 4 kW (5.5 HP)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380/660 V	Altitude	: 1000 m.a.s.l.
Rated current	: 8.68/5.00 A	Protection degree	: IP56
L. R. Amperes	: 56.4/32.5 A	Cooling method	: IC411 - TEFC
LRC	: 6.5	Mounting	: B3T
No load current	: 4.70/2.71 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1445 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 3.67 %	Starting method	: Direct On Line
Rated torque	: 19.5 ft.lb	Approx. weight ³	: 166 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		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	86.8	86.9	87.5	87.5	88.2	88.2	88.6	88.6	Max. traction	: 297 lb
	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	Max. compression	: 463 lb
	0.28	0.28	0.50	0.50	0.63	0.63	0.72	0.73		

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

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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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