

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12383846

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

Catalog # : E0.7512XT3WAX90LF3-W

Frame	: 90S/L	Locked rotor time	: 55s (cold) 31s (hot)
Output	: 0.75 kW (1 HP)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 220/380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 3.37/1.95 A	Protection degree	: IP56
L. R. Amperes	: 16.8/9.75 A	Cooling method	: IC411 - TEFC
LRC	: 5.0	Mounting	: B3T
No load current	: 1.90/1.10 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 945 rpm	Noise level ²	: 45.0 dB(A)
Slip	: 5.50 %	Starting method	: Direct On Line
Rated torque	: 5.59 ft.lb	Approx. weight ³	: 96.8 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1431 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	77.3	76.0	77.5	76.5	79.2	79.0	78.9	79.0	Max. traction	: 82 lb
	74.4	74.6	75.3	77.0	78.6	80.0	79.1	82.5		
Power Factor	0.31	0.28	0.53	0.49	0.66	0.62	0.74	0.71	Max. compression	: 179 lb
	0.26	0.26	0.46	0.47	0.59	0.60	0.69	0.69		

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

Losses (%)	P1 (0,9;1,0)	26.1	25.9	25.8	20.7
	P2 (0,5;1,0)	24.2	24.1	24.0	19.2
	P3 (0,25;1,0)	24.3	24.1	24.0	19.3
	P4 (0,9;0,5)	13.9	13.9	13.8	11.1
	P5 (0,5;0,5)	10.9	10.8	10.8	8.6
	P6 (0,5;0,25)	8.3	8.3	8.2	6.6
	P7 (0,25;0,25)	6.5	6.5	6.5	5.2

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6204 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
 EAЭC RU C-BR.AA87.B.00379/20
 1Ex db IIB T4 Gb X
 ООО «НАННО ЦСВЭ»
 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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