

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12383787

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

Catalog # : E00118XT3WAX90LF3-W

Frame	: 90S/L	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 1.1 kW (1.5 HP)	Temperature rise	: 80 K
Poles	: 4	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	: 4.13/2.39 A	Protection degree	: IP56
L. R. Amperes	: 26.0/15.1 A	Cooling method	: IC411 - TEFC
LRC	: 6.3	Mounting	: B3T
No load current	: 1.97/1.14 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1435 rpm	Noise level ²	: 49.0 dB(A)
Slip	: 4.33 %	Starting method	: Direct On Line
Rated torque	: 5.40 ft.lb	Approx. weight ³	: 92.0 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1296 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%	
Efficiency (%)	84.0	82.6	84.0	83.0	84.7	84.5	84.3	84.5
	81.0	77.6	82.0	80.0	84.1	84.0	84.8	86.5
Power Factor	0.39	0.34	0.64	0.59	0.76	0.72	0.83	0.80
	0.32	0.34	0.55	0.57	0.69	0.70	0.77	0.78

Foundation loads	
Max. traction	: 84 lb
Max. compression	: 176 lb

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

Losses (%)	P1 (0,9;1,0)	18.9	18.6	18.2	15.8
	P2 (0,5;1,0)	18.4	18.1	17.7	15.4
	P3 (0,25;1,0)	17.0	16.8	16.4	14.3
	P4 (0,9;0,5)	8.5	8.4	8.2	7.2
	P5 (0,5;0,5)	6.7	6.6	6.4	5.6
	P6 (0,5;0,25)	4.5	4.4	4.3	3.8
	P7 (0,25;0,25)	3.5	3.4	3.4	2.9

		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
 EA3C 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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