

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 13974857

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

Catalog # : E0.5518EP3WAX80F3-W2

Frame	: 80	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 0.55 kW (0.75 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	: 2.40/1.39 A	Protection degree	: IP56
L. R. Amperes	: 13.2/7.64 A	Cooling method	: IC411 - TEFC
LRC	: 5.5	Mounting	: B3T
No load current	: 1.47/0.850 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1430 rpm	Noise level ²	: 44.0 dB(A)
Slip	: 4.67 %	Starting method	: Direct On Line
Rated torque	: 2.71 ft.lb	Approx. weight ³	: 60.3 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0686 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	74.1	71.7	75.0	73.0	76.5	76.0	77.1	77.1	Max. traction	: 45 lb
	69.3	70.5	71.0	71.0	75.5	75.5	77.1	75.5		
Power Factor	0.34	0.31	0.60	0.55	0.72	0.68	0.78	0.75	Max. compression	: 105 lb
	0.28	0.29	0.51	0.52	0.60	0.65	0.70	0.72		

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

Losses (%)	P1 (0,9;1,0)	35.9	35.9	35.9	39.2
	P2 (0,5;1,0)	33.7	33.7	33.7	36.8
	P3 (0,25;1,0)	34.5	34.5	34.5	37.7
	P4 (0,9;0,5)	19.6	19.6	19.6	21.4
	P5 (0,5;0,5)	15.0	15.0	15.0	16.4
	P6 (0,5;0,25)	11.9	11.9	11.9	13.0
	P7 (0,25;0,25)	8.7	8.7	8.7	9.5

		Drive end	Non drive end
Bearing type	:	6204 ZZ	6203 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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