

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 13559754

Catalog # : E00136EP3WAX80F3-W22

Area classification : ZONA 2/22, GRUPO IIC/IIIB, T3(200 °C)/T125 °C

Frame	: 80	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 1.1 kW (1.5 HP)	Temperature rise	: 80 K
Poles	: 2	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	: 4.27/2.47 A	Protection degree	: IP55
L. R. Amperes	: 23.5/13.6 A	Cooling method	: IC411 - TEFC
LRC	: 5.5	Mounting	: B3T
No load current	: 2.07/1.20 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2800 rpm	Noise level ²	: 59.0 dB(A)
Slip	: 6.67 %	Starting method	: Direct On Line
Rated torque	: 2.77 ft.lb	Approx. weight ³	: 35.3 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0221 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%	
Efficiency (%)	78.1	77.4	78.9	78.0	79.2	79.5	79.6	79.6
	76.5	73.9	77.1	77.0	79.5	79.0	79.6	82.5
Power Factor	0.40	0.36	0.66	0.60	0.79	0.74	0.85	0.83
	0.32	0.35	0.56	0.58	0.70	0.71	0.80	0.80

Foundation loads	
Max. traction	: 61 lb
Max. compression	: 96 lb

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

Losses (%)	P1 (0,9;1,0)	26.3	26.3	26.3	21.7
	P2 (0,5;1,0)	25.8	25.8	25.8	21.3
	P3 (0,25;1,0)	23.6	23.6	23.6	19.5
	P4 (0,9;0,5)	12.3	12.3	12.3	10.2
	P5 (0,5;0,5)	8.9	8.9	8.9	7.4
	P6 (0,5;0,25)	5.9	5.9	5.9	4.9
	P7 (0,25;0,25)	4.2	4.2	4.2	3.5

		Drive end	Non drive end
Bearing type	:	6204 ZZ	6203 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes:

EAC
TC RU C-BR.AA87.B.00977/22
2Ex ec IIC T3 Gc X
Ex tc IIIB T125°C Dc X
OOO «НАИО ЛЦБЭ»
IECEX
IECEX BAS 10.0099X
Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

Rev.	Changes Summary	Performed	Checked	Date
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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	140 °C
2	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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