

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 12302097
Catalog # : E00118EP3WAX90SF3-W2

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

Frame	: 90S	Locked rotor time	: 25s (cold) 14s (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	: 4.32/2.50 A	Protection degree	: IP55
L. R. Amperes	: 28.1/16.3 A	Cooling method	: IC411 - TEFC
LRC	: 6.5	Mounting	: B3T
No load current	: 2.11/1.22 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	: 45.0 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1172 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	81.9	80.7	81.9	81.0	81.8	81.8	81.5	81.8	Max. traction	: 100 lb
	79.3	78.4	80.1	80.0	81.5	82.5	82.1	84.0		
Power Factor	0.39	0.34	0.65	0.60	0.76	0.72	0.82	0.80	Max. compression	: 145 lb
	0.32	0.33	0.57	0.58	0.70	0.69	0.78	0.77		

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

Losses (%)	P1 (0,9;1,0)	22.9	22.4	22.0	19.2
	P2 (0,5;1,0)	22.4	21.9	21.5	18.8
	P3 (0,25;1,0)	21.6	21.1	20.7	18.1
	P4 (0,9;0,5)	10.4	10.2	10.0	8.7
	P5 (0,5;0,5)	8.2	8.0	7.9	6.9
	P6 (0,5;0,25)	5.6	5.5	5.4	4.7
	P7 (0,25;0,25)	4.4	4.3	4.2	3.7

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6204 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
ООО «НАИО ЛЦБЭ»
IECEX
IECEX BAS 10.0099X
Ex ec IIC T3 Gc
Ex tc IIIB T125°C Dc

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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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