

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE2 Three-Phase

Product code : 14351686

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

Catalog # : E00312EP3YAX132SF3-W

Frame : 132S
Output : 3 kW (4 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 7.39/4.25 A
L. R. Amperes : 42.1/24.3 A
LRC : 5.7
No load current : 3.80/2.19 A
Rated speed : 960 rpm
Slip : 4.00 %
Rated torque : 22.0 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 210 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.8510 sq.ft.lb
Design : N

Locked rotor time : 41s (cold) 23s (hot)
Temperature rise : 80 K
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : B3T
Rotation¹ : Both (CW and CCW)
Noise level² : 53.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 132 lb

Output	25%		50%		75%		100%	
Efficiency (%)	83.5	82.2	83.4	82.5	83.8	83.6	83.3	83.6
	80.6	79.4	81.4	82.5	83.1	84.0	83.6	87.5
Power Factor	0.32	0.29	0.54	0.50	0.67	0.63	0.74	0.71
	0.26	0.28	0.46	0.47	0.59	0.60	0.68	0.68

Foundation loads
Max. traction : 219 lb
Max. compression : 351 lb

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

Losses (%)	P1 (0,9;1,0)	19.9	19.4	19.4	14.2
	P2 (0,5;1,0)	18.7	18.3	18.3	13.4
	P3 (0,25;1,0)	18.1	17.7	17.7	12.9
	P4 (0,9;0,5)	9.5	9.3	9.3	6.8
	P5 (0,5;0,5)	7.6	7.4	7.4	5.4
	P6 (0,5;0,25)	5.4	5.3	5.3	3.8
	P7 (0,25;0,25)	4.3	4.2	4.2	3.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6207 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 «НАННО ЛСБЭ»
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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