

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code :

12861073

Catalog # :

E00236ET3WAX90LF3-W2

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

Frame : 90L
Output : 2.2 kW (3 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 7.91/4.58 A
L. R. Amperes : 55.4/32.1 A
LRC : 7.0
No load current : 3.45/2.00 A
Rated speed : 2870 rpm
Slip : 4.33 %
Rated torque : 5.40 ft.lb
Locked rotor torque : 310 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.0610 sq.ft.lb
Design : N

Locked rotor time : 18s (cold) 10s (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 : 62.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 55.9 lb

Output	50%	75%	100%
Efficiency (%)	85.0 83.0 83.0 84.0	85.5 85.9 85.0 85.5	85.9 85.9 85.9 86.5
Power Factor	0.68 0.62 0.57 0.60	0.79 0.75 0.70 0.73	0.85 0.82 0.79 0.80

Foundation loads
Max. traction : 142 lb
Max. compression : 196 lb

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

Losses (%)	P1 (0,9;1,0)	16.0	16.0	16.0	15.3
	P2 (0,5;1,0)	14.1	14.1	14.1	13.4
	P3 (0,25;1,0)	12.9	12.9	12.9	12.2
	P4 (0,9;0,5)	7.6	7.6	7.6	7.2
	P5 (0,5;0,5)	5.3	5.3	5.3	5.0
	P6 (0,5;0,25)	3.5	3.5	3.5	3.3
	P7 (0,25;0,25)	2.5	2.5	2.5	2.4

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6205 ZZ	6204 ZZ
Sealing :		V'Ring	V'Ring
Lubrication interval :		-	-
Lubricant amount :		-	-
Lubricant type :		Mobil Polyrex EM	

Notes:

ATEX
Baseefa 10ATEX0192X
BAS21UKEX0284X
II 3G Ex ec IIC T3 Gc
II 3D Ex tc IIIB T125°C Dc
EAC
TC RU C-BR.AA87.B.00977/22
2Ex ec IIC T3 Gc X
Ex tc IIIB T125°C Dc X
OOO «НАННО ЛСВЭ»
IECEX

Rev.	Changes Summary	Performed	Checked	Date
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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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