

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code :

12861069

Catalog # :

E00136ET3WAX80F3-W22

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

Frame : 80
Output : 1.1 kW (1.5 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 4.16/2.41 A
L. R. Amperes : 27.5/15.9 A
LRC : 6.6
No load current : 1.90/1.10 A
Rated speed : 2815 rpm
Slip : 6.17 %
Rated torque : 2.75 ft.lb
Locked rotor torque : 330 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.0221 sq.ft.lb
Design : N

Locked rotor time : 30s (cold) 17s (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 : 59.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 33.3 lb

Output	25%		50%		75%		100%	
Efficiency (%)	81.5	81.0	82.0	81.5	82.7	82.7	82.7	82.7
	79.3	76.1	80.0	78.5	82.5	81.5	82.7	84.0
Power Factor	0.41	0.35	0.66	0.60	0.78	0.73	0.84	0.80
	0.32	0.36	0.54	0.59	0.67	0.71	0.76	0.79

Foundation loads
Max. traction : 72 lb
Max. compression : 106 lb

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

Losses (%)	P1 (0,9;1,0)	19.4	19.4	18.8	18.0
	P2 (0,5;1,0)	17.0	17.0	16.5	15.8
	P3 (0,25;1,0)	17.7	17.7	17.2	16.5
	P4 (0,9;0,5)	9.7	9.7	9.5	9.1
	P5 (0,5;0,5)	6.6	6.6	6.4	6.1
	P6 (0,5;0,25)	4.5	4.5	4.3	4.1
	P7 (0,25;0,25)	3.1	3.1	3.0	2.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6204 ZZ	6203 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
ООО «НАИНО ЛЦБЭ»
IECEX

Rev.	Changes Summary	Performed	Checked	Date
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Customer :

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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