

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861015

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

Catalog # : E0.7536ET3WAX80F3-W2

Frame : 80
Output : 0.75 kW (1 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 2.90/1.68 A
L. R. Amperes : 21.2/12.3 A
LRC : 7.3
No load current : 1.55/0.900 A
Rated speed : 2840 rpm
Slip : 5.33 %
Rated torque : 1.86 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.0180 sq.ft.lb
Design : N

Locked rotor time : 32s (cold) 18s (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 : 30.4 lb

Output	25%		50%		75%		100%	
Efficiency (%)	79.4	80.4	80.0	80.0	80.5	82.0	80.7	81.0
	78.6	73.8	79.1	75.5	81.0	80.0	81.1	81.5
Power Factor	0.38	0.34	0.65	0.60	0.77	0.73	0.84	0.81
	0.31	0.33	0.56	0.58	0.70	0.70	0.79	0.79

Foundation loads
Max. traction : 44 lb
Max. compression : 74 lb

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

Losses (%)	P1 (0,9;1,0)	23.5	23.1	22.9	22.3
	P2 (0,5;1,0)	20.8	20.4	20.2	19.7
	P3 (0,25;1,0)	18.8	18.4	18.3	17.9
	P4 (0,9;0,5)	12.7	12.5	12.4	12.1
	P5 (0,5;0,5)	8.5	8.3	8.3	8.1
	P6 (0,5;0,25)	6.2	6.1	6.0	5.9
	P7 (0,25;0,25)	4.3	4.2	4.2	4.1

		<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
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 ЦСВЭ»
IECEX
IECEX BAS 10.0099X
Ex ec IIC T3 Gc

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	27/03/2024			

Page 1 / 3
Revision

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Ex tc IIIB T125°C Dc

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 3	Revision
Checked by					
Date	27/03/2024				

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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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 3 / 3	Revision
Checked by					
Date	27/03/2024				