

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code :

12861109

Catalog # :

E00436ET3YAX112MF3-W

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

Frame : 112M
Output : 4 kW (5.5 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 8.01/4.61 A
L. R. Amperes : 59.3/34.1 A
LRC : 7.4
No load current : 3.40/1.96 A
Rated speed : 2890 rpm
Slip : 3.67 %
Rated torque : 9.75 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 310 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.1920 sq.ft.lb
Design : N

Locked rotor time : 19s (cold) 11s (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 : 93.5 lb

Output	50%	75%	100%
Efficiency (%)	87.5 87.0	88.2 88.4	88.2 88.4
	86.0 85.5	88.0 87.5	88.4 88.5
Power Factor	0.70 0.65	0.80 0.77	0.86 0.83
	0.60 0.63	0.72 0.72	0.81 0.82

Foundation loads
Max. traction : 174 lb
Max. compression : 266 lb

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

Losses (%)	P1 (0,9;1,0)	13.2	13.0	13.0	12.9
	P2 (0,5;1,0)	11.8	11.6	11.6	11.4
	P3 (0,25;1,0)	10.8	10.6	10.6	10.5
	P4 (0,9;0,5)	6.6	6.4	6.4	6.4
	P5 (0,5;0,5)	4.7	4.6	4.6	4.5
	P6 (0,5;0,25)	3.2	3.1	3.1	3.1
	P7 (0,25;0,25)	2.3	2.2	2.2	2.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6207 ZZ	6206 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

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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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