

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861075

Catalog # : E00336ET3WAX100LF3-W

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

Frame : 100L
Output : 3 kW (4 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 10.4/6.02 A
L. R. Amperes : 78.0/45.1 A
LRC : 7.5
No load current : 4.40/2.55 A
Rated speed : 2905 rpm
Slip : 3.17 %
Rated torque : 7.28 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.1521 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 : 67.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 71.5 lb

Output	25%		50%		75%		100%	
Efficiency (%)	84.7	84.2	85.5	85.0	86.5	86.5	87.1	87.1
	83.6	80.5	84.5	82.5	86.5	86.5	87.2	88.5
Power Factor	0.45	0.40	0.71	0.67	0.82	0.79	0.87	0.85
	0.37	0.40	0.64	0.66	0.76	0.77	0.83	0.84

Foundation loads
Max. traction : 165 lb
Max. compression : 235 lb

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

Losses (%)	P1 (0,9;1,0)	14.9	14.9	14.7	13.0
	P2 (0,5;1,0)	13.6	13.6	13.5	11.9
	P3 (0,25;1,0)	12.1	12.1	12.0	10.6
	P4 (0,9;0,5)	7.2	7.2	7.1	6.3
	P5 (0,5;0,5)	5.0	5.0	5.0	4.4
	P6 (0,5;0,25)	3.3	3.3	3.3	2.9
	P7 (0,25;0,25)	2.4	2.4	2.4	2.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6206 ZZ	6205 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
ООО «НАИО ЛЦБЭ»
IECEX
IECEX BAS 10.0099X

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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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