

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861348

Catalog # : E00218ET3WAX100LF3-W

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

Frame : 100L
Output : 2.2 kW (3 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 8.22/4.76 A
L. R. Amperes : 60.8/35.2 A
LRC : 7.4
No load current : 3.80/2.20 A
Rated speed : 1430 rpm
Slip : 4.67 %
Rated torque : 10.8 ft.lb
Locked rotor torque : 310 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.2129 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 : 53.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 75.0 lb

Output	25%		50%		75%		100%	
Efficiency (%)	87.2	86.2	87.2	86.5	87.1	87.0	86.7	87.0
	85.0	81.3	85.7	84.0	86.8	86.5	87.2	89.5
Power Factor	0.38	0.35	0.62	0.59	0.75	0.72	0.81	0.79
	0.32	0.33	0.55	0.55	0.68	0.68	0.77	0.76

Foundation loads
Max. traction : 234 lb
Max. compression : 306 lb

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

Losses (%)	P1 (0,9;1,0)	15.3	14.9	14.6	11.7
	P2 (0,5;1,0)	13.9	13.5	13.3	10.6
	P3 (0,25;1,0)	12.5	12.2	11.9	9.5
	P4 (0,9;0,5)	6.7	6.5	6.4	5.1
	P5 (0,5;0,5)	5.0	4.9	4.8	3.8
	P6 (0,5;0,25)	3.1	3.0	3.0	2.4
	P7 (0,25;0,25)	2.4	2.3	2.3	1.8

		<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
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 «НАННО ЛЦБЭ»
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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