

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12981986
Catalog # : E00158ET3WAX90LF3-W2

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

Frame : 90L
Output : 1.5 kW (2 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 5.84/3.38 A
L. R. Amperes : 40.3/23.3 A
LRC : 6.9
No load current : 3.28/1.90 A
Rated speed : 1445 rpm
Slip : 3.67 %
Rated torque : 7.32 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.1554 sq.ft.lb
Design : N

Locked rotor time : 23s (cold) 13s (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 : 49.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 50.7 lb

Output	25%	50%	75%	100%				
Efficiency (%)	0.000	84.0	82.0	85.3	84.0	85.3	85.3	
	0.000	81.0	82.5	84.0	85.5	85.3	86.5	
	0.000							
	0.000							
Power Factor	0.00	0.00	0.59	0.55	0.72	0.68	0.79	0.76
	0.00	0.00	0.50	0.53	0.63	0.65	0.73	0.74

Foundation loads
Max. traction : 189 lb
Max. compression : 240 lb

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

Losses (%)	P1 (0,9;1,0)	16.4	16.4	16.4	14.9
	P2 (0,5;1,0)	14.4	14.4	14.4	13.1
	P3 (0,25;1,0)	14.7	14.7	14.7	13.3
	P4 (0,9;0,5)	9.3	9.3	9.3	8.5
	P5 (0,5;0,5)	7.0	7.0	7.0	6.3
	P6 (0,5;0,25)	5.6	5.6	5.6	5.1
	P7 (0,25;0,25)	4.2	4.2	4.2	3.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 ZZ	6204 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	0 h	0 h
Lubricant amount	:	0 g	0 g
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

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
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Customer :

ООО «НАННО ЦСВЭ»
IECEX
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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