

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 14387243

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

Catalog # : E0.7512ET3WAXL90SF3W

Frame : L90S
Output : 0.75 kW (1 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 220/380 V
Rated current : 3.37/1.95 A
L. R. Amperes : 16.8/9.75 A
LRC : 5.0
No load current : 1.90/1.10 A
Rated speed : 945 rpm
Slip : 5.50 %
Rated torque : 5.59 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.1431 sq.ft.lb
Design : N

Locked rotor time : 55s (cold) 31s (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 : 45.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 54.4 lb

Output	25%		50%		75%		100%	
Efficiency (%)	77.3	76.0	77.5	76.5	79.2	79.0	78.9	79.0
	74.4	74.6	75.3	77.0	78.6	80.0	79.1	82.5
Power Factor	0.31	0.28	0.53	0.49	0.66	0.62	0.74	0.71
	0.26	0.26	0.46	0.47	0.59	0.60	0.69	0.69

Foundation loads
Max. traction : 104 lb
Max. compression : 157 lb

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

Losses (%)	P1 (0,9;1,0)	26.0	25.8	25.6	20.6
	P2 (0,5;1,0)	24.5	24.3	24.2	19.4
	P3 (0,25;1,0)	25.4	25.2	25.1	20.1
	P4 (0,9;0,5)	13.6	13.5	13.4	10.8
	P5 (0,5;0,5)	10.8	10.7	10.7	8.6
	P6 (0,5;0,25)	8.2	8.2	8.1	6.5
	P7 (0,25;0,25)	6.4	6.4	6.4	5.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6205 ZZ	6204 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 ЦСБЭ»
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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