

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861485

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

Catalog # : E00312ET3YAX132SF3-W

Frame : 132S  
Output : 3 kW (4 HP)  
Poles : 6  
Frequency : 50 Hz  
Rated voltage : 380-400-415/660-690 V  
Rated current : 7.29-6.93-6.68/4.20-4.02 A  
L. R. Amperes : 44.5-42.3-40.7/25.6-24.5 A  
LRC : 6.1  
No load current : 4.21-4.00-3.86/2.42-2.32 A  
Rated speed : 970 rpm  
Slip : 3.00 %  
Rated torque : 21.9 ft.lb  
Locked rotor torque : 190 %  
Breakdown torque : 240 %  
Insulation class : F  
Service factor : 1.00  
Moment of inertia (J) : 0.9879 sq.ft.lb  
Design : N

Locked rotor time : 72s (cold) 40s (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  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 53.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 143 lb

Output 25% 50% 75% 100%

Efficiency (%) 84.7 85.0 85.6 85.6  
Power Factor 0.30 0.53 0.66 0.73

Foundation loads

Max. traction : 223 lb  
Max. compression : 366 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
16.7	15.6	14.6	8.1	6.4	4.5	3.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6308 ZZ	6207 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 «НАННО ЛСВЭ»  
IECEX  
IECEX BAS 10.0099X  
Ex ec IIC T3 Gc  
Ex tc IIIB T125°C Dc

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.  
(2) Measured at 1m and with tolerance of +3dB(A).

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

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Customer :

(3) Approximate weight subject to changes after manufacturing process.  
(4) At 100% of full load.

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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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