

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12431066

Catalog # : E00312XT3YAX132SF3-W

Area classification : ZONA 1, GRUPO IIB, T4 (135 °C)

Frame	: 132S/M	Locked rotor time	: 72s (cold) 40s (hot)
Output	: 3 kW (4 HP)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380-400-415/660-690 V	Altitude	: 1000 m.a.s.l.
Rated current	: 7.38-7.01-6.76/4.25-4.06 A	Protection degree	: IP56
L. R. Amperes	: 41.3-39.3-37.8/23.8-22.8 A	Cooling method	: IC411 - TEFC
LRC	: 5.6	Mounting	: B3T
No load current	: 3.83-3.64-3.51/2.21-2.11 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 965 rpm	Noise level <sup>2</sup>	: 53.0 dB(A)
Slip	: 3.50 %	Starting method	: Direct On Line
Rated torque	: 21.9 ft.lb	Approx. weight <sup>3</sup>	: 230 lb
Locked rotor torque	: 160 %		
Breakdown torque	: 210 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.9879 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	84.7	85.0	85.6	85.6	Max. traction	: 144 lb
Power Factor	0.34	0.57	0.69	0.76	Max. compression	: 374 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	:	Oil Seal	Lip Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes:

ATEX  
 INERIS 22ATEX0025X  
 CML 23UKEX1256X  
 II 2G Ex db IIB T4 Gb  
 EAC  
 EAЭC RU C-BR.AA87.B.00379/20  
 1Ex db IIB T4 Gb X  
 ООО «НАИО ЛЦБЭ»  
 IECEX  
 IECEX INE 22.0044X  
 Ex db IIB T4 Gb

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

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	27/03/2024			
			Page	Revision
			1 / 2	

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	150 °C

Space heater information

Voltage: 200 - 240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date	27/03/2024				