

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 13585578  
Catalog # : E01818XP3YAX180MF3-W

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

Frame	: 180M/L	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 18.5 kW (25 HP)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380/660 V	Altitude	: 1000 m.a.s.l.
Rated current	: 36.3/20.9 A	Protection degree	: IP56
L. R. Amperes	: 254/146 A	Cooling method	: IC411 - TEFC
LRC	: 7.0	Mounting	: B3T
No load current	: 15.0/8.64 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1475 rpm	Noise level <sup>2</sup>	: 61.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 88.4 ft.lb	Approx. weight <sup>3</sup>	: 561 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 3.93 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	90.8	90.4	91.0	90.7	91.1	91.6	91.2	91.7	Max. traction	: 902 lb
	90.8		91.0		92.4		92.4			
Power Factor	0.44	0.35	0.70	0.60	0.80	0.73	0.85	0.80	Max. compression	: 1463 lb
	0.38		0.63		0.76		0.82			

		Drive end	Non drive end
Bearing type	:	6311 C3	6309 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	13 g
Lubricant type	:	Mobil Polyrex EM	

### Notes:

ATEX  
INERIS 22ATEX0025X  
CML 23UKEX1256X  
II 2G Ex db IIB T4 Gb  
EAC  
EA3C RU C-BR.AA87.B.00379/20  
1Ex db IIB T4 Gb X  
ООО «НАННО ЦСВЭ»  
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.

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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

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