

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12430536

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

Catalog # : E01512XP3YAX180LF3-W

Frame : 180M/L
Output : 15 kW (20 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 29.9/17.2 A
L. R. Amperes : 209/121 A
LRC : 7.0
No load current : 11.5/6.62 A
Rated speed : 970 rpm
Slip : 3.00 %
Rated torque : 109 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 270 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 6.09 sq.ft.lb
Design : N

Locked rotor time : 12s (cold) 7s (hot)
Temperature rise : 80 K
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP56
Cooling method : IC411 - TEFC
Mounting : B3T
Rotation¹ : Both (CW and CCW)
Noise level² : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 543 lb

Output	25%	50%	75%	100%				
Efficiency (%)	91.0	90.3	90.6	90.3	90.4	90.5	89.7	90.3
	89.6	90.0	89.9	90.2	90.5	91.0	90.6	91.0
Power Factor	0.45	0.42	0.70	0.69	0.80	0.79	0.85	0.84
	0.39	0.39	0.65	0.65	0.77	0.77	0.83	0.83

Foundation loads
Max. traction : 1098 lb
Max. compression : 1641 lb

	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
EAЭC RU C-BR.AA87.B.00379/20
1Ex db IIB T4 Gb X
ООО «НАИИО 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			

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Revision

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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				