

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12430192

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

Catalog # : E01836XP3YAX160LF3-W

Frame : 160M/L
Output : 18.5 kW (25 HP)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 34.9/20.1 A
L. R. Amperes : 262/151 A
LRC : 7.5
No load current : 10.5/6.05 A
Rated speed : 2940 rpm
Slip : 2.00 %
Rated torque : 44.3 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 320 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 1.48 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 : 67.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 475 lb

Output	25%		50%		75%		100%	
Efficiency (%)	91.7	91.1	91.6	91.3	91.9	92.0	91.6	92.0
	90.6	89.4	91.0	90.2	91.9	91.7	92.2	92.4
Power Factor	0.51	0.47	0.74	0.70	0.83	0.80	0.88	0.86
	0.43	0.44	0.66	0.66	0.77	0.79	0.84	0.85

Foundation loads
Max. traction : 519 lb
Max. compression : 994 lb

	Drive end	Non drive end
Bearing type	6309 C3	6308 C3
Sealing	Oil Seal	Lip Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	11 g
Lubricant type	Mobil Polyrex EM	

Notes:

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.

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

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Revision

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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