

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12430534

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

Catalog # : E01112XP3YAX160LF3-W

Frame : 160M/L
Output : 11 kW (15 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 22.7/13.1 A
L. R. Amperes : 136/78.4 A
LRC : 6.0
No load current : 9.50/5.47 A
Rated speed : 965 rpm
Slip : 3.50 %
Rated torque : 80.3 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 3.95 sq.ft.lb
Design : N

Locked rotor time : 39s (cold) 22s (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 : 57.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 440 lb

Output	25%		50%		75%		100%	
Efficiency (%)	88.1	88.1	88.5	88.5	88.5	88.5	88.7	88.7
	88.1	89.3	88.5	89.5	88.5	90.2	88.7	90.2
Power Factor	0.42	0.38	0.66	0.62	0.77	0.74	0.83	0.81
	0.35	0.35	0.59	0.58	0.71	0.72	0.79	0.79

Foundation loads
Max. traction : 761 lb
Max. compression : 1201 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:

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 «НАИО ЛСВЭ»
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 1 / 2
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

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