

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12430338

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

Catalog # : E01518XP3YAX160LF3-W

Frame	: 160M/L	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 15 kW (20 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	: 29.6/17.0 A	Protection degree	: IP56
L. R. Amperes	: 178/102 A	Cooling method	: IC411 - TEFC
LRC	: 6.0	Mounting	: B3T
No load current	: 12.6/7.25 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1470 rpm	Noise level ²	: 61.0 dB(A)
Slip	: 2.00 %	Starting method	: Direct On Line
Rated torque	: 71.9 ft.lb	Approx. weight ³	: 463 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 3.31 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	90.9	90.4	90.8	90.5	90.9	90.8	90.6	90.7	Max. traction	: 677 lb
	89.7	89.4	90.0	90.2	90.7	91.0	90.8	91.7		
Power Factor	0.43	0.39	0.70	0.66	0.79	0.76	0.85	0.83	Max. compression	: 1151 lb
	0.36	0.37	0.63	0.62	0.73	0.75	0.81	0.81		

				<u>Drive end</u>		<u>Non drive end</u>
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				
Checked by				
Date	27/03/2024			
			Page	Revision
			1 / 2	

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				