

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12383830

Catalog # : E16018XP3YAX315SMF3W

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

Frame	: 315S/M	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 160 kW (220 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	: 294/169 A	Protection degree	: IP56
L. R. Amperes	: 1911/1100 A	Cooling method	: IC411 - TEFC
LRC	: 6.5	Mounting	: B3T
No load current	: 83.8/48.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1488 rpm	Noise level ²	: 71.0 dB(A)
Slip	: 0.80 %	Starting method	: Direct On Line
Rated torque	: 758 ft.lb	Approx. weight ³	: 2818 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 84.5 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	95.1	94.7	95.0	94.8	95.4	95.4	95.2	95.4	Max. traction	: 2820 lb
	94.4	93.4	94.6	93.6	95.3	95.0	95.4	95.0		
Power Factor	0.54	0.50	0.78	0.74	0.85	0.83	0.87	0.86	Max. compression	: 5639 lb
	0.46	0.48	0.71	0.73	0.81	0.82	0.85	0.86		

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6319 C3	6316 C3
Sealing	:				Viton Oil Seal	Viton Oil Seal
Lubrication interval	:				11000 h	13000 h
Lubricant amount	:				45 g	34 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 16.0044X
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				