

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12383856

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

Catalog # : E07512XP3YAX315SMF3W

Frame	: 315S/M	Locked rotor time	: 84s (cold) 47s (hot)
Output	: 75 kW (100 HP)	Temperature rise	: 80 K
Poles	: 6	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	: 146/84.1 A	Protection degree	: IP56
L. R. Amperes	: 876/504 A	Cooling method	: IC411 - TEFC
LRC	: 6.0	Mounting	: B3T
No load current	: 55.0/31.7 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 990 rpm	Noise level ²	: 67.0 dB(A)
Slip	: 1.00 %	Starting method	: Direct On Line
Rated torque	: 534 ft.lb	Approx. weight ³	: 2406 lb
Locked rotor torque	: 180 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 90.8 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	93.9	93.5	94.0	93.8	94.0	94.0	94.0	94.2	Max. traction	: 1776 lb
	92.8	92.9	93.0	93.0	94.2	94.1	94.2	94.1		
Power Factor	0.45	0.42	0.71	0.68	0.79	0.77	0.83	0.81	Max. compression	: 4182 lb
	0.39	0.40	0.65	0.66	0.75	0.76	0.80	0.81		

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6319 C3	6316 C3
Sealing	:	Viton Oil Seal	Viton Oil Seal
Lubrication interval	:	16000 h	18000 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.

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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

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