

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12430415

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

Catalog # : E04512XP3YAX280SMF3W

Frame	: 280S/M	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 45 kW (60 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	: 87.4/50.3 A	Protection degree	: IP56
L. R. Amperes	: 498/287 A	Cooling method	: IC411 - TEFC
LRC	: 5.7	Mounting	: B3T
No load current	: 29.0/16.7 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 985 rpm	Noise level ²	: 65.0 dB(A)
Slip	: 1.50 %	Starting method	: Direct On Line
Rated torque	: 322 ft.lb	Approx. weight ³	: 1813 lb
Locked rotor torque	: 180 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 48.0 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	94.0	93.4	93.7	93.4	93.6	93.6	93.1	93.4	Max. traction	: 1012 lb
	93.0	92.2	93.1	92.4	93.5	93.6	93.5	93.6		
Power Factor	0.48	0.44	0.72	0.68	0.81	0.78	0.84	0.82	Max. compression	: 2825 lb
	0.42	0.41	0.65	0.65	0.76	0.77	0.80	0.82		

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6316 C3	6316 C3
Sealing	:	Viton Oil Seal	Viton Oil Seal
Lubrication interval	:	18000 h	18000 h
Lubricant amount	:	34 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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