

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12430788

Catalog # : E05512XP3YAX280SMF3W

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

Frame	: 280S/M	Locked rotor time	: 39s (cold) 22s (hot)
Output	: 55 kW (75 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	: 106/61.0 A	Protection degree	: IP56
L. R. Amperes	: 636/366 A	Cooling method	: IC411 - TEFC
LRC	: 6.0	Mounting	: B3T
No load current	: 38.5/22.2 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	: 394 ft.lb	Approx. weight ³	: 2019 lb
Locked rotor torque	: 180 %		
Breakdown torque	: 210 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 56.0 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	94.0	93.6	93.8	93.6	93.8	93.9	93.5	93.8	Max. traction	: 1249 lb
	92.9	92.9	93.3	93.0	93.6	93.6	93.9	93.6		
Power Factor	0.47	0.43	0.72	0.68	0.82	0.79	0.84	0.82	Max. compression	: 3268 lb
	0.40	0.40	0.65	0.65	0.77	0.77	0.81	0.83		

				<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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