

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12430230

Catalog # : E07536XP3YAX280SMF3W

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

Frame	: 280S/M	Locked rotor time	: 50s (cold) 28s (hot)
Output	: 75 kW (100 HP)	Temperature rise	: 80 K
Poles	: 2	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	: 136/78.3 A	Protection degree	: IP56
L. R. Amperes	: 870/501 A	Cooling method	: IC411 - TEFC
LRC	: 6.4	Mounting	: B3T
No load current	: 35.0/20.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2975 rpm	Noise level ²	: 77.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 178 ft.lb	Approx. weight ³	: 2016 lb
Locked rotor torque	: 180 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 20.3 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	93.7	93.3	93.6	93.4	94.3	94.3	94.1	94.3	Max. traction	: 212 lb
	93.0	91.0	93.2	91.7	94.2	93.0	94.3	93.6		
Power Factor	0.58	0.55	0.82	0.79	0.87	0.86	0.89	0.88	Max. compression	: 2229 lb
	0.51	0.51	0.76	0.74	0.84	0.84	0.87	0.87		

				<u>Drive end</u>		<u>Non drive end</u>
Bearing type	:			6314 C3		6314 C3
Sealing	:			Viton Oil Seal		Viton Oil Seal
Lubrication interval	:			5000 h		5000 h
Lubricant amount	:			27 g		27 g
Lubricant type	:			Mobil Polyrex EM		

Notes:

ATEX
 INERIS 16ATEX0036X
 CML 21UKEX1315X
 II 2G Ex db IIB T4 Gb
 EAC
 EAЭC RU C-BR.AA87.B.00379/20
 1Ex db IIB T4 Gb X
 ООО «НАИО ЛСВЭ»
 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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