

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 13929641

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

Catalog # : E03718XP3YAX225SMF3W

Frame : 225S/M
Output : 37 kW (50 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 72.2/41.6 A
L. R. Amperes : 484/279 A
LRC : 6.7
No load current : 25.0/14.4 A
Rated speed : 1480 rpm
Slip : 1.33 %
Rated torque : 176 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 10.5 sq.ft.lb
Design : N

Locked rotor time : 14s (cold) 8s (hot)
Temperature rise : 80 K
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP56
Cooling method : IC411 - TEFC
Mounting : B3T
Rotation¹ : Both (CW and CCW)
Noise level² : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1157 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.1	91.7	92.2	91.9	92.7	92.7	92.7	92.7
	91.5	91.1	91.7	91.5	92.7	92.7	92.7	93.0
Power Factor	0.49	0.45	0.75	0.70	0.82	0.80	0.84	0.83
	0.43	0.44	0.68	0.70	0.78	0.80	0.82	0.83

Foundation loads
Max. traction : 922 lb
Max. compression : 2078 lb

	Drive end	Non drive end
Bearing type	: 6314 C3	: 6314 C3
Sealing	: Viton Oil Seal	: Viton Oil Seal
Lubrication interval	: 14000 h	: 14000 h
Lubricant amount	: 27 g	: 27 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 16.0060X
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			

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Revision

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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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