

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12434205

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

Catalog # : E16012XP3YAX355MLF3W

Frame : 355M/L
Output : 160 kW (220 HP)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 309/178 A
L. R. Amperes : 1854/1067 A
LRC : 6.0
No load current : 110/63.3 A
Rated speed : 994 rpm
Slip : 0.60 %
Rated torque : 1130 ft.lb
Locked rotor torque : 170 %
Breakdown torque : 210 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 198 sq.ft.lb
Design : N

Locked rotor time : 136s (cold) 76s (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 : 73.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 4149 lb

Output	25%	50%	75%	100%				
Efficiency (%)	94.2	94.8	94.5	94.9	95.9	95.3	96.0	95.3
	93.5	92.5	93.9	93.0	95.8	95.0	96.0	95.4
Power Factor	0.46	0.40	0.70	0.65	0.78	0.75	0.82	0.80
	0.36	0.38	0.60	0.62	0.74	0.73	0.80	0.79

Foundation loads
Max. traction : 3016 lb
Max. compression : 7165 lb

	Drive end	Non drive end
Bearing type	6322 C3	6319 C3
Sealing	Viton Oil Seal	Viton Oil Seal
Lubrication interval	13000 h	16000 h
Lubricant amount	60 g	45 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.

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

Rev.	Changes Summary		Performed	Checked	Date
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Date	27/03/2024				