

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Special Motor

Frame	: 447/9T	Locked rotor time	: 6 s (hot) 11 s (cold)
Output	: 300 HP (220 kW)	Temperature rise	: 105 K
Poles	: 6	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 575 V	Altitude	: 3280 ft
Rated current	: 303 A	Protection degree	: IP55
L. R. Amperes	: 2954 A	Cooling method	: IC411 - TEFC
LRC	: 9.7	Mounting	: F-1
No load current	: 161 A	Rotation ¹	: Both
Rated speed	: 1190 rpm	Noise level ²	: -
Slip	: 0.83 %	Vibration class	: B
Rated torque	: 1324 ft.lb	Starting method	: Direct On Line
Locked rotor torque	: 370.0 %	Coupling	: Direct
Pull up torque	: 290.0 %	Approx. weight ³	: 2914 lb
Breakdown torque	: 330.0 %	Painting plan	: 203A
Insulation class	: F	Color	: RAL 5009
Service factor	: 1.00	Design	: A
Moment of inertia (J)	: 138 sq.ft.lb		
Output	50% 75% 100%	Load type	: -
Efficiency (%)	94.7 95.5 95.8	Load torque	: -
Power Factor	0.55 0.68 0.76	Load inertia (J=GD ² /4)	: -
Bearing type	Drive end NU-322-C3	Non drive end 6319-C3	Foundation loads
Lubrication interval	7000 h	13000 h	Max. traction
Lubricant amount	60 g	45 g	Max. compression
Lubricant type	MOBIL POLYREX EM		

Notes

See notes on page 2.

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
4.7	3.7	3.1	3.0	2.1	1.7	1.1

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 be changed after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

Rev.	Changes Summary	Rev.	Checked	Date
Performed by	mgodoi	1855253875		
Checked by	AUTOMATICO	Page	Rev.	
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Notes

Customer information
CSA
Class I, Div 2, Gr A, B, C, D - T3B
Class I, Zone 2, IIC - T3B
Class II, Div 2, Gr F, G - T4

Standards	Specification	: MG1 - Part 20	Vibration	: MG1 - Part 7
	Test	: MG1 - Part 20	Tolerance	: MG1 - Part 12
	Noise	: MG1 - Part 9		

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