

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	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 575 V	Altitude	: 3280 ft
Rated current	: 315 A	Protection degree	: IP55
L. R. Amperes	: 3758 A	Cooling method	: IC411 - TEFC
LRC	: 11.9	Mounting	: F-1
No load current	: 177 A	Rotation ¹	: Both
Rated speed	: 1790 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 0.56 %	Vibration class	: B
Rated torque	: 882 ft.lb	Starting method	: Direct On Line
Locked rotor torque	: 450.0 %	Coupling	: Direct
Pull up torque	: 380.0 %	Approx. weight ³	: 2657 lb
Breakdown torque	: 440.0 %	Painting plan	: 203A
Insulation class	: F	Color	: RAL 5009
Service factor	: 1.15	Design	: A
Moment of inertia (J)	: 75.9 sq.ft.lb		
Output	50%	75%	100%
Efficiency (%)	94.4	95.5	96.2
Power Factor	0.52	0.65	0.73
	Drive end	Non drive end	Foundation loads
Bearing type	NU-322-C3	6319-C3	Max. traction
Lubrication interval	4000 h	8000 h	Max. compression
Lubricant amount	60 g	45 g	
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)
4.4	3.2	2.4	3.3	2.1	1.9	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	1855754996		
Checked by	AUTOMATICO	Page	Rev.	
Date	02/06/2026	1 / 2	0	

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Notes

Customer information
CSA
Class I, Div 2, Gr A, B, C, D - T2C
Class I, Zone 2, IIC - T2C
Class II, Div 2, Gr F, G - T3C
For use on PWM: Gr. A, B, C, D, F,
VT 1000:1, CT 6:1, 1.00SF - T3

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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