

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : Special Motor

Product code : 13500619

Frame	: 504/5TZ	Locked rotor time	: 20 s (hot) 36 s (cold)
Output	: 250 HP (185 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 460 V	Altitude	: 3280 ft
Rated current	: 284 A	Protection degree	: IP55
L. R. Amperes	: 2244 A	Cooling method	: IC411 - TEFC
LRC	: 7.9 Code J	Mounting	: F-1
No load current	: 110 A	Rotation ¹	: Both
Rated speed	: 1790 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 0.56 %	Vibration class	: B
Rated torque	: 731 ft.lb	Starting method	: Direct On Line
Locked rotor torque	: 250.0 %	Coupling	: Direct
Pull up torque	: 195.0 %	Approx. weight ³	: 2450 lb
Breakdown torque	: 250.0 %	Painting plan	: 203A
Insulation class	: F	Color	: RAL 5009
Service factor	: 1.15	Design	: A
Moment of inertia (J)	: 89.5 sq.ft.lb		

Output	50%	75%	100%	Load type	: -
Efficiency (%)	95.8	96.2	96.2	Load torque	: -
Power Factor	0.72	0.81	0.85	Load inertia (J=GD ² /4)	: -
	Drive end	Non drive end		Foundation loads	
Bearing type	NU-322-C3	6316-C3		Max. traction	:
Lubrication interval	4000 h	10000 h		Max. compression	:
Lubricant amount	60 g	34 g			
Lubricant type	MOBIL POLYREX EM				

Notes

See notes on page 2.

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	farazq		1853860944	
Checked by	AUTOMATICO		Page	Rev.
Date	28/05/2026		1 / 2	0

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Thermal protection				
ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155°C

Notes

Customer information
CSA
Class I, Div 2, Gr A, B, C, D - T3
Class I, Zone 2, IIC - T3
Class II, Div 2, Gr F, G - T3C
For use on PWM: Gr. A, B, C, D, F,
VT 1000:1, CT 20:1, 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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