

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : Special Motor

Frame	: 143/5TCZ	Locked rotor time	: 18 s (hot) 32 s (cold)
Output	: 1.5 HP (1.1 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	: 1.82 A	Protection degree	: IP55
L. R. Amperes	: 14.6 A	Cooling method	: IC410 - TENV
LRC	: 8.0 Code L	Mounting	: F-1/B34R(D)
No load current	: 1.20 A	Rotation ¹	: Both
Rated speed	: 1750 rpm	Noise level ²	: -
Slip	: 2.78 %	Vibration class	: A
Rated torque	: 4.50 ft.lb	Starting method	: Direct On Line
Locked rotor torque	: 340.0 %	Approx. weight ³	: 41.5 lb
Pull up torque	: 305.0 %	Painting plan	: 207N
Breakdown torque	: 410.0 %	Color	: MUNSELL N 1 - MATTE
Insulation class	: H	Design	: B
Service factor	: 1.00		
Moment of inertia (J)	: 0.0949 sq.ft.lb		

Output	50%	75%	100%	Load type	: -
Efficiency (%)	84.0	86.5	86.5	Load torque	: -
Power Factor	0.46	0.59	0.70	Load inertia (J=GD ² /4)	: -

	Drive end	Non drive end	Foundation loads	
Bearing type	6205-ZZ	6203-ZZ	Max. traction	:
Lubrication interval	-	-	Max. compression	:
Lubricant amount	-	-		
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.

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Performed by	martint			Page 1 / 2 Rev. 0	
Checked by					
Date	06/03/2026				

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

Notes

- CSA / UL certified motor with the following characteristics:
- * Variable torque: 1000: 1
- * Constant torque: 4: 1
- Motor suitable for CT 1000:1

Standards	Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7		
	Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12		
	Noise	: MG1 - Part 9				
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