

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : Special Motor

Frame	: 56CZ	Locked rotor time	: 14 s (hot) 25 s (cold)
Output	: 0.75 HP (0.55 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 230/460 V	Altitude	: 3280 ft
Rated current	: 2.61/1.30 A	Protection degree	: IP55
L. R. Amperes	: 23.5/11.7 A	Cooling method	: IC410 - TENV
LRC	: 9.0	Mounting	: F-1/B34R(D)
No load current	: 1.82/0.910 A	Rotation <sup>1</sup>	: Both
Rated speed	: 1770 rpm	Noise level <sup>2</sup>	: -
Slip	: 1.67 %	Vibration class	: A
Rated torque	: 2.23 ft.lb	Starting method	: Inverter
Locked rotor torque	: 350.0 %	Approx. weight <sup>3</sup>	: 30.1 lb
Pull up torque	: 295.0 %	Painting plan	: 207N
Breakdown torque	: 450.0 %	Color	: MUNSELL N 1 - MATTE
Insulation class	: H		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0902 sq.ft.lb		

Output	50%	75%	100%	Load type	: Constant torque
Efficiency (%)	77.0	77.0	81.5	Load torque	: -
Power Factor	0.43	0.56	0.65	Load inertia (J=GD <sup>2</sup> /4)	: 0.0902 sq.ft.lb

	Drive end	Non drive end	Foundation loads	
Bearing type	6204-ZZ	6203-ZZ	Max. traction	:
Lubrication interval	-	-	Max. compression	:
Lubricant amount	-	-		
Lubricant type	MOBIL POLYREX EM			

Operation limits with inverter	Voltage Peak Phase-Phase	<= 1600 V
	dV/dt	<= 5200 V/μs
	Rise time	>= 0.1 μs

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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**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
- \* 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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