

# 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 |
| Bearing type         | 6204-ZZ          | 6203-ZZ       |
| Lubrication interval | -                | -             |
| Lubricant amount     | -                | -             |
| Lubricant type       | MOBIL POLYREX EM |               |

|                  |   |
|------------------|---|
| Foundation loads |   |
| Max. traction    | : |
| Max. compression | : |

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.

| Rev.         | Changes Summary |  | Rev. | Checked | Date  |      |
|--------------|-----------------|--|------|---------|-------|------|
|              |                 |  |      |         |       |      |
| Performed by | martint         |  |      |         |       |      |
| Checked by   |                 |  |      |         | Page  | Rev. |
| Date         | 06/03/2026      |  |      |         | 1 / 2 | 0    |

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|--------------------|-------------|-----------------------------|-----------|---------------------|
| Customer           |             | : V.J. PAMENSKY CANADA INC. |           |                     |
| Product line       |             | : Special Motor             |           |                     |
| 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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| Rev.                                                                                                                                                                                                                                                          |               | Changes Summary |                                                                                                                             | Rev.                       | Checked | Date |
|                                                                                                                                                                                                                                                               |               |                 |                                                                                                                             |                            |         |      |
| Performed by                                                                                                                                                                                                                                                  |               | martint         |                                                                                                                             | Page<br>2 / 2<br>Rev.<br>0 |         |      |
| Checked by                                                                                                                                                                                                                                                    |               |                 |                                                                                                                             |                            |         |      |
| Date                                                                                                                                                                                                                                                          |               | 06/03/2026      |                                                                                                                             |                            |         |      |

