

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W01 - TEAO - Grain Dryer

| | | | |
|---------------------|--------------------|------------------------------|---------------------|
| Frame | : 143/5TZ | Cooling method | : IC418 - TEAO |
| Insulation class | : F | Minimum air speed over motor | : 12.1 m/s |
| Duty cycle | : S1 | Mounting | : F-3/B3T |
| Ambient temperature | : -20 °C to +40 °C | Rotation ¹ | : Counter clockwise |
| Altitude | : 3280 ft | Starting method | : Direct On Line |
| Protection degree | : IP55 | Approx. weight ³ | : 45.0 lb |
| Design | : B | Moment of inertia (J) | : 0.1471 sq.ft.lb |

| | | | |
|--------------------------|------------------|------------------|------|
| Output | 3 HP (2.2 kW) | 4.5 HP (3.3 kW) | |
| Poles | 2 | 2 | |
| Frequency | 60 Hz | 60 Hz | |
| Rated voltage | 208-230/460 V | 208-230/460 V | |
| Rated current | 8.87-8.02/4.01 A | 12.1-11.0/5.49 A | |
| L. R. Amperes | 97.6-88.2/44.1 A | 97.1-87.8/43.9 A | |
| LRC | 11.0 | 8.0 | |
| No load current | 3.36-3.90/1.95 A | 3.36-3.90/1.95 A | |
| Rated speed | 3525 rpm | 3485 rpm | |
| Slip | 2.08 % | 3.19 % | |
| Rated torque | 4.41 ft.lb | 6.69 ft.lb | |
| Locked rotor torque | 410 % | 270 % | |
| Pull up torque | 345 % | 230 % | |
| Breakdown torque | 510 % | 300 % | |
| Service factor | 1.00 | 1.00 | |
| Temperature rise | 105 K | 105 K | |
| Noise level ² | 68.0 dB(A) | 68.0 dB(A) | |
| Locked rotor time (hot) | 8 s | 7 s | |
| Locked rotor time (cold) | 14 s | 13 s | |
| Efficiency (%) | 50% | 77.7 | 82.1 |
| | 75% | 82.1 | 84.1 |
| | 100% | 83.8 | 83.9 |
| Power Factor | 50% | 0.63 | 0.76 |
| | 75% | 0.76 | 0.86 |
| | 100% | 0.83 | 0.90 |

| | | | |
|--|------------------|---------------|--|
| Bearing type Lubrication interval Lubricant amount Lubricant type | Drive end | Non drive end | Foundation loads |
| | 6205-ZZ | 6203-ZZ | Max. traction : |
| | - | - | Max. compression : |
| | - | - | Load type :- |
| | MOBIL POLYREX EM | | Load torque :- |
| | | | Load inertia (J=GD ² /4) :- |

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 | omarm | 1847465743 | | |
| Checked by | AUTOMATICO | Page | Rev. | |
| Date | 12/05/2026 | 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

| | | |
|-----------|-------------------------------|---------------------------|
| 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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