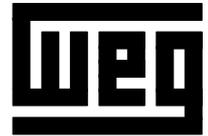


DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : V.J. PAMENSKY CANADA INC.

Product line : W22 - Nema Premium Efficiency (Centro 3100)

| | | | |
|-----------------------|---------------------------|---------------------------------|--------------------------|
| Frame | : 213/5TCZ | Locked rotor time | : 22 s (hot) 40 s (cold) |
| Output | : 10 HP (7.5 kW) | Temperature rise ⁴ | : 105 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20 °C to +40 °C |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l |
| Rated current | : 10.1 A | Degree of protection | : IP55 |
| L. R. Amperes | : 85.9 A | Cooling method | : IC410 - TENV |
| LRC (p.u.) | : 8.5 Code K | Mounting | : F-1 |
| No load current | : 4.52 A | Direct of rotation ¹ | : Both |
| Rated speed | : 1770 rpm | Starting method | : VFD |
| Slip | : 1.67 % | Approx. weight ³ | : 78.0 kg |
| Rated torque | : 4.10 kgfm | Design | : A |
| Locked rotor torque | : 290 % | | |
| Pull up torque | : 200 % | | |
| Breakdown torque | : 340 % | | |
| Insulation class | : H | | |
| Service factor | : 1.00 | | |
| Moment of inertia (J) | : 0.0637 kgm ² | | |

| | | | | | | |
|----------------|-------|------|------|------|-------------------------------------|---------------------------|
| Output | Start | 50% | 75% | 100% | Load type | : Parabolic torque |
| Efficiency (%) | - | 91.0 | 91.7 | 91.7 | Load torque | : 4.06 kgfm |
| Power factor | 0.43 | 0.65 | 0.76 | 0.81 | Load inertia (J=GD ² /4) | : 0.0637 kgm ² |

| | |
|---|---|
| Operation limits with inverter | Maximum peak voltage phase-to-phase <= 2400 V |
| 6 Hz up to 60 Hz (Variable torque): 4.06 kgfm | dV/dt <= 7800 V/μs |
| | Rise time >= 0,1 μs |

| | | | |
|----------------------|------------------|---------------|-------------------------------|
| Bearing type | Drive end | Non drive end | Foundation loads |
| Lubrication interval | 6308-ZZ | 6207-ZZ | Maximum traction : 216 kgf |
| Lubricant amount | - | - | Maximum compression : 294 kgf |
| Lubricant type | MOBIL POLYREX EM | | |

Notes:

Losses at normative operating points (speed;torque), in percentage of rated output power

| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 8.8 | 7.3 | 7.0 | 4.6 | 3.2 | 2.3 | 1.6 |

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

This revision replaces and cancels the previous one, which must be eliminated.

- (1) When viewed from the drive end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At the rated point.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

| Rev. | Summary of changes | | Performed | Checked | Date |
|--------------|--------------------|--|-----------|-------------|----------|
| | | | | | |
| Performed by | ialejandra | | | 865321/2024 | |
| Checked by | barrios | | | Page | Revision |
| Date | 20/12/2024 | | | 1/2 | 0 |

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : V.J. PAMENSKY CANADA INC.

Product line : W22 - Nema Premium Efficiency (Centro 3100)

| Rev. | Summary of changes | Performed | Checked | Date |
|--------------|--------------------|-----------|---------|---------------|
| | | | | |
| Performed by | ialejandra | | | 865321/2024 |
| Checked by | barrios | | | Page Revision |
| Date | 20/12/2024 | | | 2/2 0 |