



# PERFORMANCE DATA SHEET NEMA PREMIUM NR CAN NEMA 12 - 12



Catalogue #: **MQP-41**

| HP | kW    | Voltage | S.F. @ 60Hz | EFF.  | P.F. | Frame | Design | L.R. Amps |
|----|-------|---------|-------------|-------|------|-------|--------|-----------|
| 20 | 14.92 | 230/460 | 1.25        | 91.0% | 0.87 | 256T  | B      | 145       |

| 60 Hz |     |       |     |     |     |     |      |          |
|-------|-----|-------|-----|-----|-----|-----|------|----------|
| FLA   |     |       |     |     |     |     | Code | F.L. RPM |
| 208   | 230 | 416   | 460 | 480 | 575 | 600 |      |          |
| 48.5  | 46  | 24.25 | 23  | 22  | /   | /   | G    | 3540     |

| 50 Hz |      |      |             |  |            |              |      |          |
|-------|------|------|-------------|--|------------|--------------|------|----------|
| FLA   |      |      | S.F. @ 50Hz |  | Efficiency | Power Factor | Code | F.L. RPM |
| 190   | 380  | 415  |             |  |            |              |      |          |
| 57.0  | 28.5 | 26.1 | 1.00        |  | 89.0%      | 0.89         | E    | 2920     |

| Wgt. Lbs | PH | Duty  | Insul. Class | Amb. | Elevation       | Temp. Rise° C |
|----------|----|-------|--------------|------|-----------------|---------------|
| 315      | 3  | Cont. | F            | 40°C | 1000M (3300 Ft) | 53            |

| % Efficiency |       | % Power Factor |      | Torque           |      | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|------|-------------------|------------------------|
| Full Load:   | 91.0% | Full Load:     | 0.87 | Full Load Ft/Lbs | 29.8 |                   |                        |
| 3/4 Load:    | 91.0% | 3/4 Load:      | 0.84 | Locked Rotor %   | 170  |                   |                        |
| 1/2 Load:    | 89.5% | 1/2 Load:      | 0.76 | Break Down %     | 250  | 0.42              | 20                     |

| Rotor Inertia Wk2 Lb-Ft2 | Max Load Inertia Wk2 Lb-Ft2 | Shaft Material | Frame Material | DE Bracket Type | ODE Bracket Type | Enclosure | NEMA Rating | Lead Wire Size |
|--------------------------|-----------------------------|----------------|----------------|-----------------|------------------|-----------|-------------|----------------|
| 1.19                     | 31                          | Standard       | Cast Iron      | Standard        | Standard         | TEFC      | IP55        | 12AWG          |

| Ball Bearings |      | Grease          | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|-------|----------------------|-------------|
| DE            | ODE  |                 |            |             |       |                      |             |
| 6309          | 6309 | Mobil PolyrexEm | Rigid      | Horizontal  | Green | 84                   | 94          |

| Inverter Duty.<br>Motor meets MG1 parts 31.4.4.2 | Constant Torque Range | Variable Torque Range | Constant HP RPM |
|--------------------------------------------------|-----------------------|-----------------------|-----------------|
|                                                  | 10:1                  | 20:1                  | 5400            |

