



PERFORMANCE DATA SHEET

Meets or exceeds MEPS (Minimum Efficiency Performance Standards), as described by the US Department of Energy in docket 10CFR431 and Natural Resources Canada's Amendment 14

Catalogue #: **MQRP-104CH**

| HP | kW | Voltage | S.F. @ 60Hz | Efficiency | Power Factor | Frame | Design | L.R. Amps |
|----|------|-----------|-------------|------------|--------------|-------|--------|-----------|
| 1 | 0,75 | 230 / 460 | 1,15 | 86,5% | 0,770 | 56HC | B | 15 |

| 60 Hz | | | | | | | | |
|-------|------|-----|------|-----|-----|-----|------|----------|
| FLA | | | | | | | Code | F.L. RPM |
| 208 | 230 | 416 | 460 | 480 | 575 | 600 | | |
| / | 2,82 | / | 1,41 | / | / | / | L | 1752 |

| 50 Hz | | | | | | | | |
|-------|--------|-----|-----|-------------|------------|--------------|------|----------|
| HP | kW | FLA | | S.F. @ 50Hz | Efficiency | Power Factor | Code | F.L. RPM |
| | | 190 | 380 | | | | | |
| 0,75 | 0,5595 | 3,0 | 1,5 | 1,15 | 82,5% | 0,64 | L | 1440 |

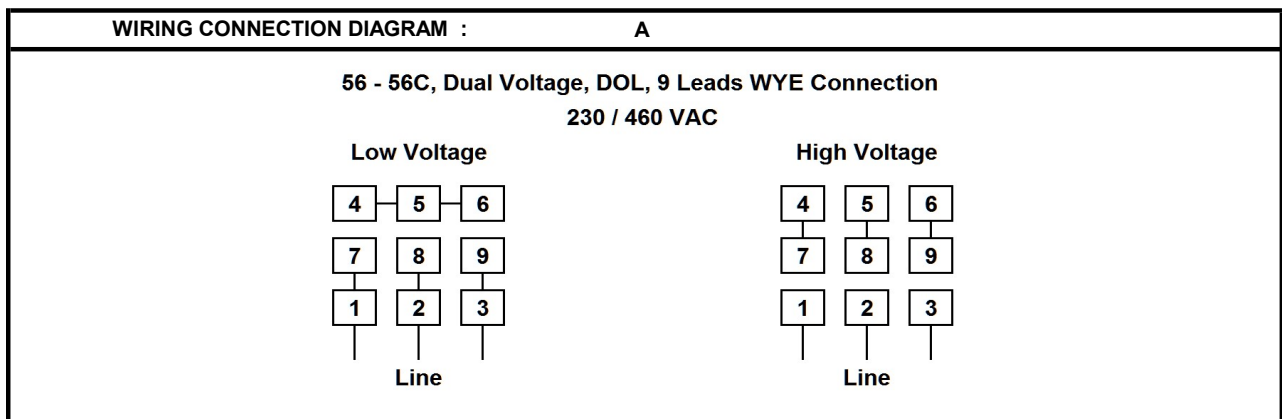
| Wgt. Lbs | PH | Duty | Insul. Class | Amb. | Elevation | Temp. Rise° C |
|----------|----|-------|--------------|------|-----------------|---------------|
| 27 | 3 | Cont. | F | 40°C | 1000M (3300 Ft) | 43 |

| % Efficiency | | % Power Factor | | Torque | | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|-----|-------------------|------------------------|
| Full Load: | 86,5% | Full Load: | 0,77 | Full Load Ft/Lbs | 3,0 | | |
| 3/4 Load: | 87,3% | 3/4 Load: | 0,67 | Locked Rotor % | 387 | | |
| 1/2 Load: | 83,9% | 1/2 Load: | 0,53 | Break Down % | 452 | 4,37 / 17,4 | 12 |

| 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 |
|--------------------------|-----------------------------|----------------|----------------|-----------------|------------------|-----------|-------------|----------------|
| / | / | Steel | Rolled Steel | Aluminium Alloy | | TEFC | IP55 | 16AWG |

| Ball Bearings | | Grease | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|-------|----------------------|-------------|
| DE | ODE | | | | | | |
| 6205 | 6203 | Sealed Bearings | Rigid | Horizontal | Black | 57 | / |

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



Date: 2024-05-01
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

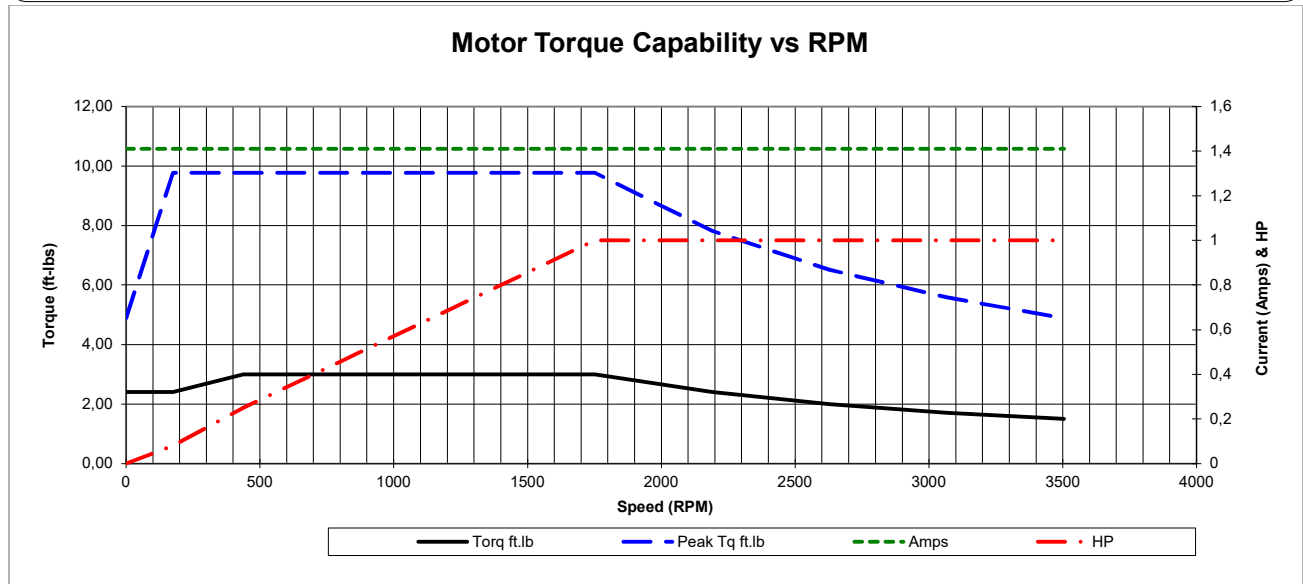
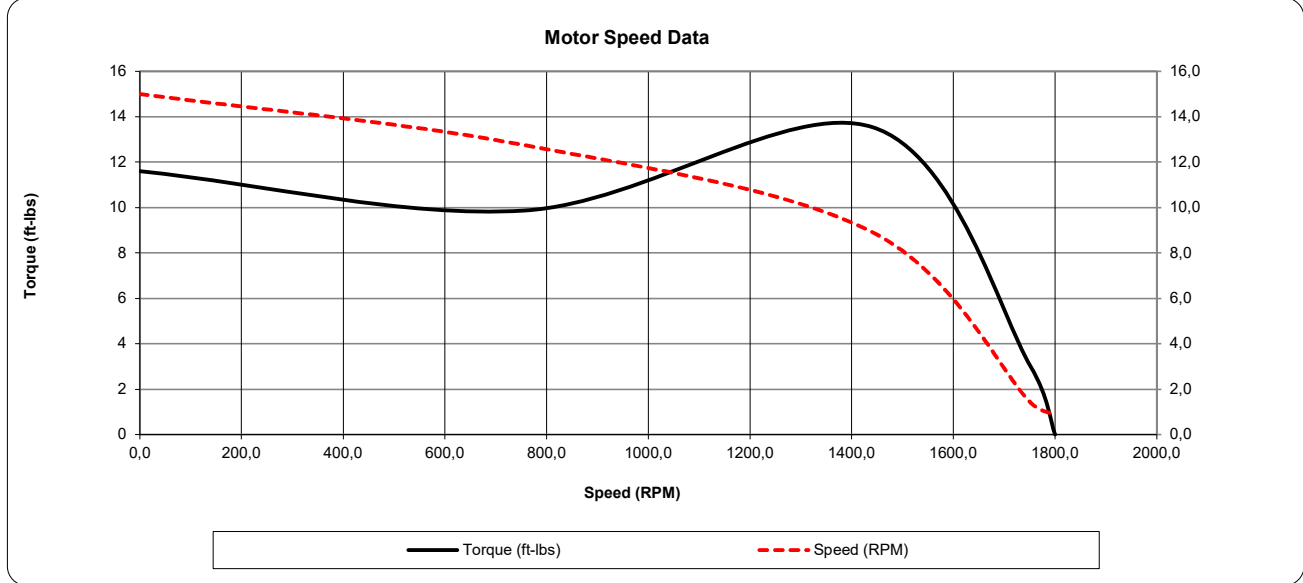
Catalogue #: **MQRP-104CH**

Meets or exceeds MEPS (Minimum Efficiency Performance Standards), as described by the US Department of Energy in docket 10CFR431 and Natural Resources Canada's Amendment 14

| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
|----|-----|------|-----------|-------|-----------|--------|-------|----------------|------------------|---------------|
| 1 | 460 | 1752 | TEFC | 56HC | 60 | B | 4 | L | F | 43 |

| | 0Hz | 6Hz | 15Hz | 30Hz | 45Hz | 60Hz | 75Hz | 90Hz | 105Hz | 120Hz |
|---------------|------|-------|------|------|------|------|------|------|-------|-------|
| Amps | 1,41 | 1,41 | 1,41 | 1,41 | 1,41 | 1,41 | 1,41 | 1,41 | 1,41 | 1,41 |
| RPM | 0 | 175,2 | 438 | 876 | 1314 | 1752 | 2190 | 2628 | 3066 | 3504 |
| Torq ft.lb | 2,40 | 2,40 | 3,00 | 3,00 | 3,00 | 3,00 | 2,40 | 2,00 | 1,71 | 1,50 |
| Peak Tq ft.lb | 4,89 | 9,77 | 9,77 | 9,77 | 9,77 | 9,77 | 7,82 | 6,52 | 5,58 | 4,89 |
| HP | 0 | 0,1 | 0,3 | 0,5 | 0,8 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |

| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBA @ 1M |
|-----------------|--------------|---------|-----------|------------|------|--------------------------------------|-------|---------|-----------|----------|
| Speed (RPM) | 0,0 | 756 | 1440 | 1752 | 1800 | Continuous | 1,15 | 40°C | 3,300 ft | 57 |
| Current (Amps) | 15,0 | 12,8 | 8,9 | 1,4 | 0,9 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 11,6 | 9,9 | 13,5 | 3,0 | 0,0 | C.T. | 10:1 | V.T. | 20:1 | |





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| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
|----|-----|------|-----------|-------|-----------|--------|-------|----------------|------------------|---------------|
| 1 | 460 | 1752 | TEFC | 56HC | 60 | B | 4 | L | F | 43 |

| Load % | 0% | 25% | 50% | 75% | 100% | 125% | 150% |
|-------------|------|-------|-------|-------|-------|-------|-------|
| Amps | 0,90 | 0,99 | 1,06 | 1,21 | 1,41 | 1,76 | 2,12 |
| Torq ft/lbs | 0 | 0,73 | 1,48 | 2,23 | 3,00 | 3,77 | 4,56 |
| RPM | 0 | 1788 | 1776 | 1764 | 1752 | 1740 | 1728 |
| Eff | 0 | 62,22 | 83,18 | 86,98 | 86,50 | 84,55 | 82,14 |
| PF | 0 | 38,0 | 53 | 67 | 77,0 | 78,5 | 80,9 |

| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBa @ 1M |
|-----------------|--------------|---------|-----------|------------|-------|---|-------|---------|-----------|----------|
| Speed (RPM) | 0 | 756 | 1440 | 1752 | 1800 | Continuous | 1,15 | 40°C | 3,300 ft | 57 |
| Current (Amps) | 15 | 12,8 | 8,9 | 1,41 | 0,898 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 11,60 | 9,86 | 13,55 | 3,00 | 0,0 | C.T. | 10:1 | V.T. | 20:1 | |

