



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

Catalogue #: MQOP-47

| HP | kW | Voltage | S.F. @ 60Hz | EFF. | P.F. | Frame | Design | L.R. Amps |
|----|-------|---------|-------------|-------|------|-------|--------|-----------|
| 25 | 18,65 | 230/460 | 1,15 | 93,6% | 0,85 | 284T | B | 182 |

| 60 Hz | | | | | | | | Code | F.L. RPM |
|-------|-----|-----|-------|-----|-----|-----|--|------|----------|
| 208 | 230 | 416 | 460 | 480 | 575 | 600 | | | |
| / | 60 | / | 30,00 | / | / | | | G | 1775 |

| 50 Hz | | | | | | | | |
|-------|-----|-----|-------------|------------|--------------|------|----------|--|
| FLA | | | S.F. @ 50Hz | Efficiency | Power Factor | Code | F.L. RPM | |
| 190 | 380 | 415 | | | | | | |
| 72,0 | 36 | | 1,00 | 92,3% | 0,860 | F | 1465 | |

| Wgt. Lbs | PH | Duty | Insul. Class | Amb. | Elevation | Temp. Rise° C |
|----------|----|-------|--------------|------|------------------|---------------|
| 392 | 3 | Cont. | F | 40°C | 1000M (3,300 Ft) | 42 |

| % Efficiency | | % Power Factor | | Torque | | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|------|-------------------|------------------------|
| Full Load: | 93,6% | Full Load: | 0,85 | Full Load Ft/Lbs | 74,0 | | |
| 3/4 Load: | 93,6% | 3/4 Load: | 0,83 | Locked Rotor % | 160 | | |
| 1/2 Load: | 92,5% | 1/2 Load: | 0,75 | Break Down % | 250 | 0,37 | 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 |
|--------------------------|-----------------------------|----------------|----------------|-----------------|------------------|-----------|-------------|----------------|
| 3,80 | 180 | 1045 | Cast Iron | Cast Iron | Cast Iron | ODP | IP23 | 10AWG |

| Ball Bearings | | Grease | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|---------|----------------------|-------------|
| DE | ODE | | | | | | |
| 6311 | 6311 | Mobil PolyrexEm | Rigid | Horizontal | RAL6022 | 77 | 88 |

| Inverter Duty, Motor meets MG1 parts 31.4.4.2 | VFD SF | Constant Torque Range | Variable Torque Range | Constant HP RPM |
|---|--------|-----------------------|-----------------------|-----------------|
| | 1,00 | 10:1 | 20:1 | 2700 |

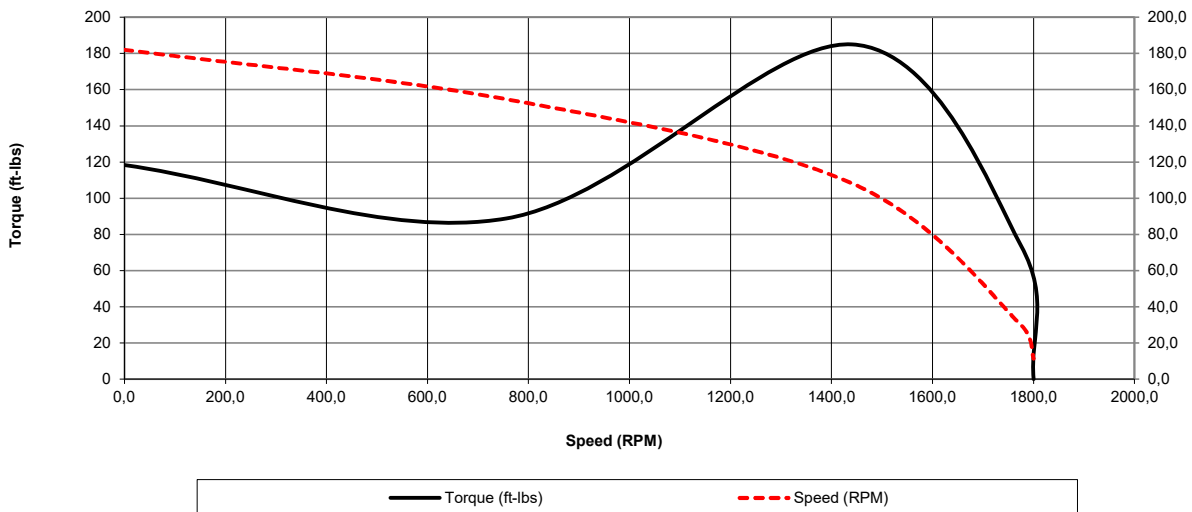


Date: 2023-12-13
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

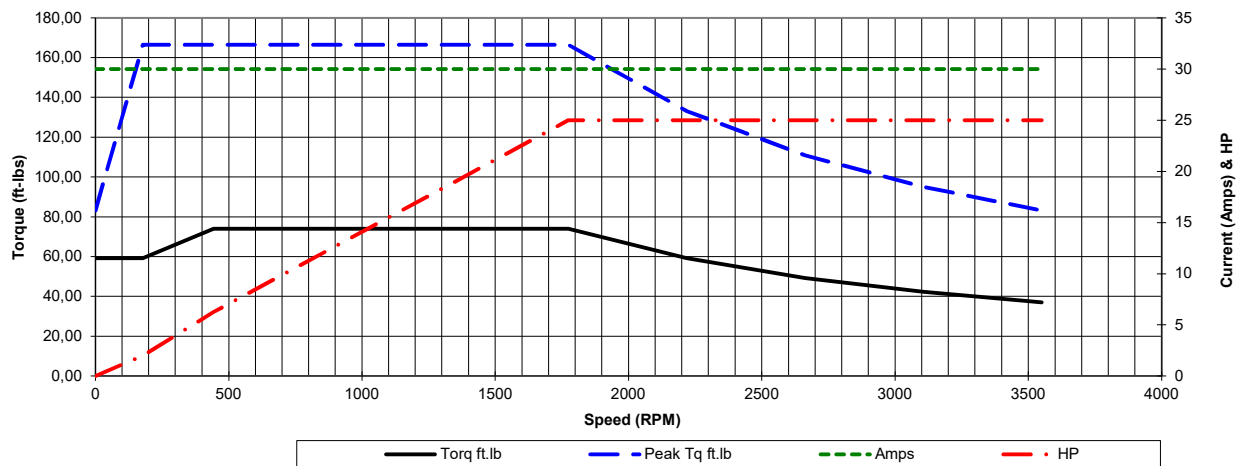
Catalogue #: **MQOP-47**

| NEMA PREMIUM NR CAN NEMA 12 - 12 | | | | | | | | | | |
|----------------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|---------|----------------|------------------|---------------|
| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
| 25 | 460 | 1775 | ODP | 284T | 60 Hz | B | 4 | G | F | 42 |
| | 0Hz | 6Hz | 15Hz | 30Hz | 45Hz | 60 Hz | 75Hz | 90Hz | 105Hz | 120Hz |
| Amps | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| RPM | 0 | 177,5 | 443,75 | 887,5 | 1331,25 | 1775 | 2218,75 | 2662,5 | 3106,25 | 3550 |
| Torq ft.lb | 59,18 | 59,18 | 73,97 | 73,97 | 73,97 | 73,97 | 59,18 | 49,31 | 42,27 | 36,99 |
| Peak Tq ft.lb | 83,22 | 166,44 | 166,44 | 166,44 | 166,44 | 166,44 | 133,15 | 110,96 | 95,11 | 83,22 |
| HP | 0 | 2,0 | 6,3 | 12,5 | 18,8 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 |
| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBA @ 1M |
| Speed (RPM) | 0,0 | 756 | 1440 | 1775 | 1800 | Continuous | 1,15 | 40°C | 3,300 ft | 77 |
| Current (Amps) | 182,0 | 154,7 | 108,3 | 30,0 | 11,4 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft.-lbs) | 118,4 | 88,8 | 184,9 | 74,0 | 0,0 | C.T. | 10:1 | V.T. | 20:1 | VFD SF 1.00 |

Motor Speed Data



Motor Torque Capability vs RPM





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| NEMA PREMIUM NR CAN NEMA 12 - 12 | | | | | | | | | | |
|----------------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|--------|----------------|------------------|---------------|
| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
| 25 | 460 | 1775 | ODP | 284T | 60 Hz | B | 4 | G | F | 42 |
| Load % | 0% | 25% | 50% | 75% | 100% | 125% | 150% | | | |
| Amps | 11,40 | 14,40 | 17,76 | 23,43 | 30,00 | 36,89 | 44,53 | | | |
| Torq ft/lbs | 0 | 18,30 | 36,73 | 55,28 | 73,97 | 92,79 | 111,74 | | | |
| RPM | 0 | 1793,75 | 1787,5 | 1781,25 | 1775 | 1768,75 | 1762,5 | | | |
| Eff | 0 | 80,00 | 92,50 | 93,60 | 93,60 | 92,13 | 91,77 | | | |
| PF | 0 | 50,8 | 75 | 83 | 85 | 86,105 | 85,935 | | | |
| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBA @ 1M |
| Speed (RPM) | 0 | 756 | 1440 | 1775 | 1800 | Continuous | 1,15 | 40°C | 3,300 ft | 77 |
| Current (Amps) | 182 | 154,7 | 108,3 | 30 | 11,4 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 118,35 | 88,77 | 184,93 | 73,97 | 0,0 | C.T. | 10:1 | V.T. | 20:1 | VFD SF 1.00 |

