



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

Catalogue #: MQOP-101

| HP | kW | Voltage | S.F. @ 60Hz | EFF. | P.F. | Frame | Design | L.R. Amps |
|-----|--------|---------|-------------|-------|------|-------|--------|-----------|
| 250 | 186,50 | 460 | 1,15 | 95,0% | 0,91 | 445TS | B | 1825 |

| 60 Hz | | | | | | | | Code | F.L. RPM |
|-------|-----|-----|--------|-----|-----|-----|--|------|----------|
| 208 | 230 | 416 | 460 | 480 | 575 | 600 | | | |
| / | / | / | 270,00 | / | / | | | G | 3575 |

| 50 Hz | | | | | | | | |
|-------|-----|-----|-------------|------------|--------------|------|----------|--|
| FLA | | | S.F. @ 50Hz | Efficiency | Power Factor | Code | F.L. RPM | |
| 190 | 380 | 415 | | | | | | |
| / | 326 | | 1,00 | 94,3% | 0,920 | E | 2980 | |

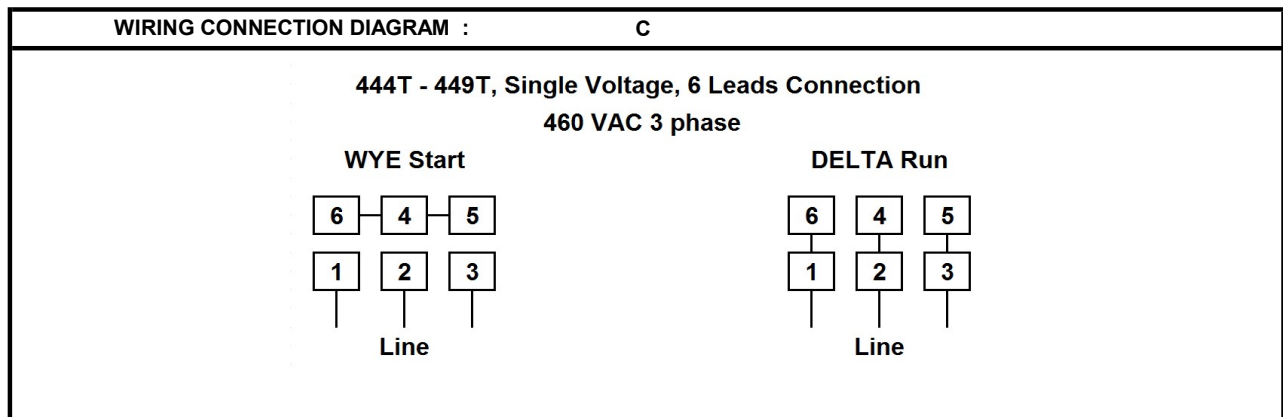
| Wgt. Lbs | PH | Duty | Insul. Class | Amb. | Elevation | Temp. Rise° C |
|----------|----|-------|--------------|------|------------------|---------------|
| 1870 | 3 | Cont. | F | 40°C | 1000M (3,300 Ft) | < 80 |

| % Efficiency | | % Power Factor | | Torque | | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|-------|-------------------|------------------------|
| Full Load: | 95,0% | Full Load: | 0,91 | Full Load Ft/Lbs | 367,3 | | |
| 3/4 Load: | 95,0% | 3/4 Load: | 0,89 | Locked Rotor % | 130 | | |
| 1/2 Load: | 94,5% | 1/2 Load: | 0,87 | Break Down % | 240 | | |

| 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 |
|--------------------------|-----------------------------|----------------|----------------|-----------------|------------------|-----------|-------------|----------------|
| 32,04 | 265 | 1045 | Cast Iron | Cast Iron | Cast Iron | ODP | IP23 | 2AWG |

| Ball Bearings | | Grease | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|---------|----------------------|-------------|
| DE | ODE | | | | | | |
| 6314 | 6314 | Mobil PolyrexEm | Rigid | Horizontal | RAL6022 | 95 | 107 |

| 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 | 5400 |

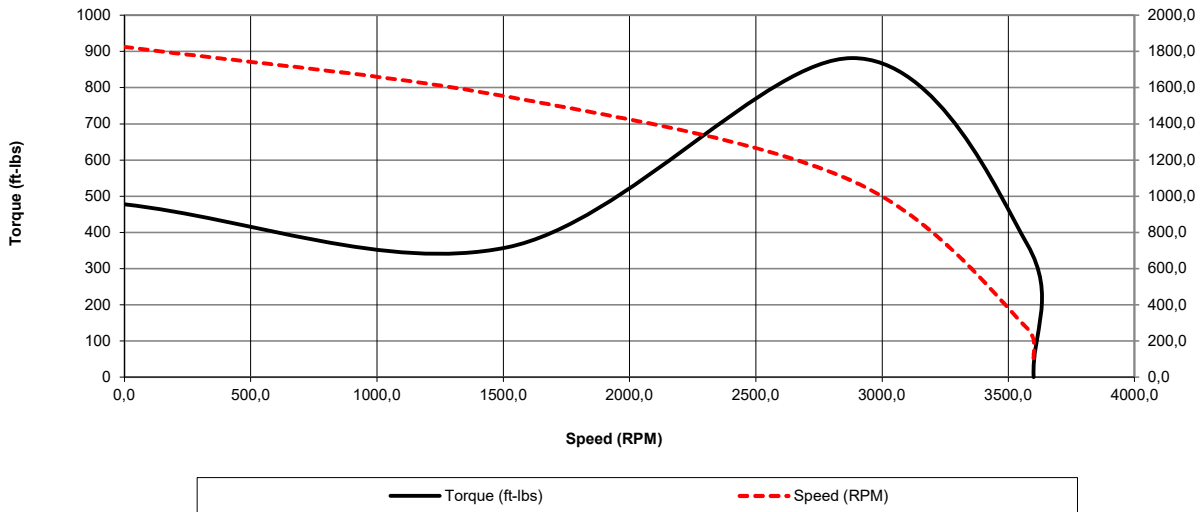


Date: 2023-12-13
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

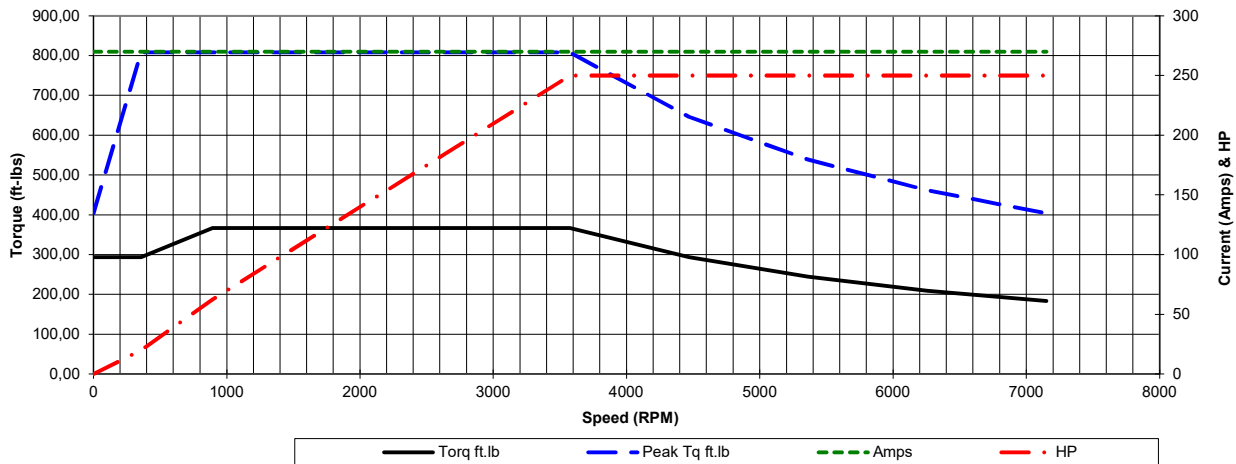
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| NEMA PREMIUM NR CAN NEMA 12 - 12 | | | | | | | | | | |
|----------------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|---------|----------------|------------------|---------------|
| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
| 250 | 460 | 3575 | ODP | 445TS | 60 Hz | B | 2 | G | F | < 80 |
| | 0Hz | 6Hz | 15Hz | 30Hz | 45Hz | 60 Hz | 75Hz | 90Hz | 105Hz | 120Hz |
| Amps | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| RPM | 0 | 357,5 | 893,75 | 1787,5 | 2681,25 | 3575 | 4468,75 | 5362,5 | 6256,25 | 7150 |
| Torq ft.lb | 293,82 | 293,82 | 367,27 | 367,27 | 367,27 | 367,27 | 293,82 | 244,85 | 209,87 | 183,64 |
| Peak Tq ft.lb | 404,00 | 808,00 | 808,00 | 808,00 | 808,00 | 808,00 | 646,40 | 538,67 | 461,71 | 404,00 |
| HP | 0 | 20,0 | 62,5 | 125,0 | 187,5 | 250,0 | 250,0 | 250,0 | 250,0 | 250,0 |
| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBA @ 1M |
| Speed (RPM) | 0,0 | 1512 | 2880 | 3575 | 3600 | Continuous | 1,15 | 40°C | 3,300 ft | 95 |
| Current (Amps) | 1825,0 | 1551,3 | 1085,9 | 270,0 | 102,6 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 477,5 | 358,1 | 881,5 | 367,3 | 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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|----------------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|--------|----------------|------------------|---------------|
| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
| 250 | 460 | 3575 | ODP | 445TS | 60 Hz | B | 2 | G | F | < 80 |
| Load % | 0% | 25% | 50% | 75% | 100% | 125% | 150% | | | |
| Amps | 102,60 | 88,02 | 159,84 | 210,87 | 270,00 | 340,47 | 418,46 | | | |
| Torq ft/lbs | 0 | 91,34 | 183,00 | 274,97 | 367,27 | 459,89 | 552,84 | | | |
| RPM | 0 | 3593,75 | 3587,5 | 3581,25 | 3575 | 3568,75 | 3562,5 | | | |
| Eff | 0 | 92,34 | 94,50 | 95,00 | 95,00 | 93,51 | 93,14 | | | |
| PF | 0 | 72 | 87 | 89 | 91 | 91,91 | 90,09 | | | |
| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBA @ 1M |
| Speed (RPM) | 0 | 1512 | 2880 | 3575 | 3600 | Continuous | 1,15 | 40°C | 3,300 ft | 95 |
| Current (Amps) | 1825 | 1551,3 | 1085,9 | 270 | 102,6 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 477,45 | 358,09 | 881,45 | 367,27 | 0,0 | C.T. | 10:1 | V.T. | 20:1 | VFD SF 1.00 |

