



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

Catalogue #: MQP-17

| HP | kW | Voltage | S.F. @ 60Hz | EFF. | P.F. | Frame | Design | L.R. Amps |
|----|------|---------|-------------|-------|------|-------|--------|-----------|
| 3 | 2,24 | 230/460 | 1,25 | 89,5% | 0,77 | 182T | B | 32 |

| 60 Hz | | | | | | | | Code | F.L. RPM |
|-------|-----|-----|------|-----|-----|-----|--|------|----------|
| 208 | 230 | 416 | 460 | 480 | 575 | 600 | | | |
| / | 8 | / | 4,00 | / | / | | | K | 1760 |

| 50 Hz | | | | | | | | |
|-------|-----|-----|-------------|------------|--------------|------|----------|--|
| FLA | | | S.F. @ 50Hz | Efficiency | Power Factor | Code | F.L. RPM | |
| 190 | 380 | 415 | | | | | | |
| 9,8 | 4,9 | | 1,00 | 87,5% | 0,800 | H | 1450 | |

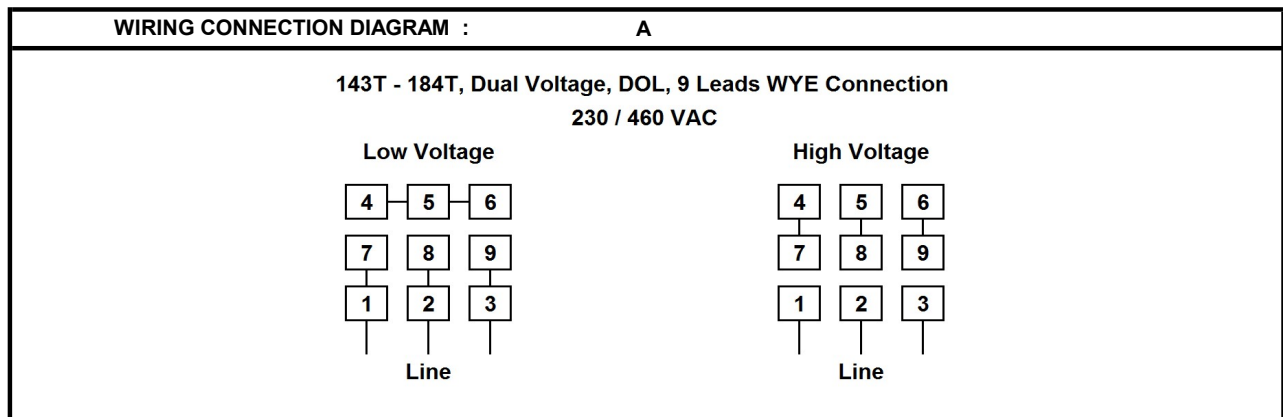
| Wgt. Lbs | PH | Duty | Insul. Class | Amb. | Elevation | Temp. Rise° C |
|----------|----|-------|--------------|------|------------------|---------------|
| 97 | 3 | Cont. | F | 40°C | 1000M (3,300 Ft) | 40 |

| % Efficiency | | % Power Factor | | Torque | | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|-----|-------------------|------------------------|
| Full Load: | 89,5% | Full Load: | 0,77 | Full Load Ft/Lbs | 9,0 | | |
| 3/4 Load: | 89,1% | 3/4 Load: | 0,70 | Locked Rotor % | 215 | | |
| 1/2 Load: | 87,6% | 1/2 Load: | 0,58 | Break Down % | 300 | 4,75 | 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 |
|--------------------------|-----------------------------|----------------|----------------|-----------------|------------------|-----------|-------------|----------------|
| 0,23 | 25 | 1045 | Cast Iron | Cast Iron | Cast Iron | TEFC | IP55 | 14 AWG |

| Ball Bearings | | Grease | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|---------|----------------------|-------------|
| DE | ODE | | | | | | |
| 6306 | 6306 | Sealed Bearings | Rigid | Horizontal | RAL6022 | 64 | 74 |

| 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 |

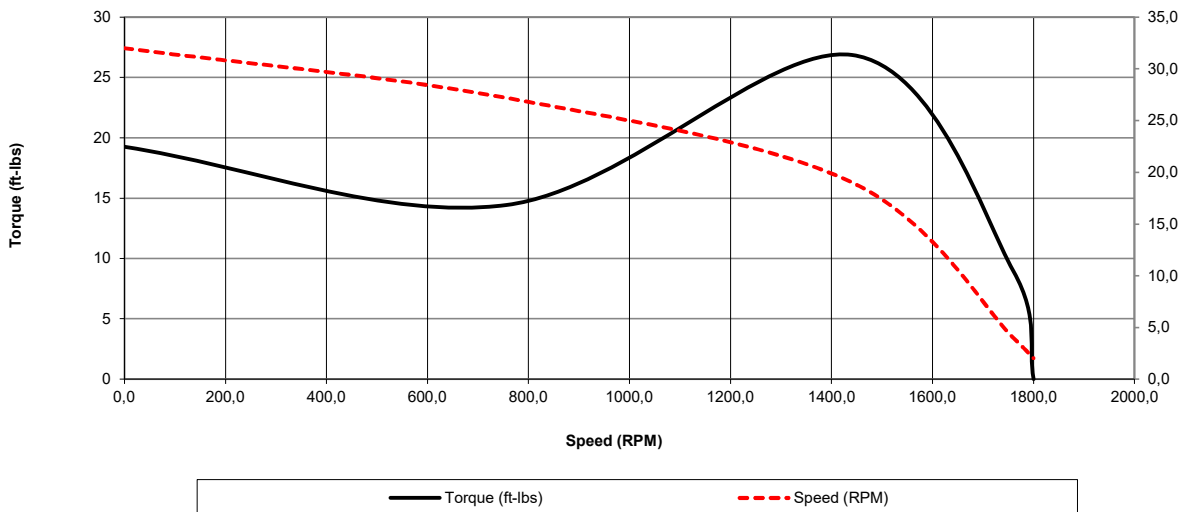


Date: 2023-12-13
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

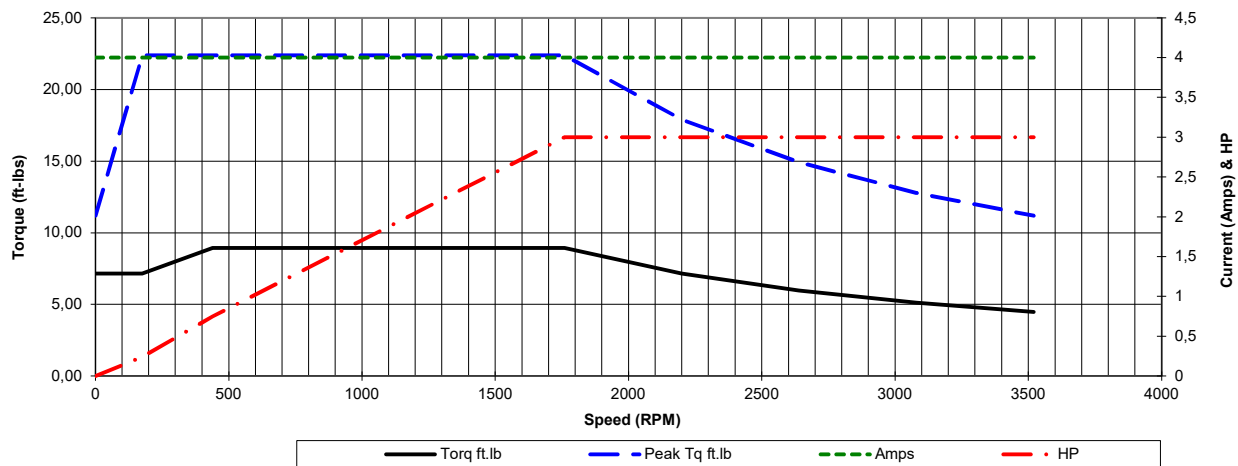
Catalogue #: MQP-17

| NEMA PREMIUM NR CAN NEMA 12 - 12 | | | | | | | | | | |
|----------------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|-------|----------------|------------------|---------------|
| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
| 3 | 460 | 1760 | TEFC | 182T | 60 Hz | B | 4 | K | F | 40 |
| | 0Hz | 6Hz | 15Hz | 30Hz | 45Hz | 60 Hz | 75Hz | 90Hz | 105Hz | 120Hz |
| Amps | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| RPM | 0 | 176 | 440 | 880 | 1320 | 1760 | 2200 | 2640 | 3080 | 3520 |
| Torq ft.lb | 7,16 | 7,16 | 8,95 | 8,95 | 8,95 | 8,95 | 7,16 | 5,97 | 5,12 | 4,48 |
| Peak Tq ft.lb | 11,19 | 22,38 | 22,38 | 22,38 | 22,38 | 22,38 | 17,90 | 14,92 | 12,79 | 11,19 |
| HP | 0 | 0,2 | 0,8 | 1,5 | 2,3 | 3,0 | 3,0 | 3,0 | 3,0 | 3,0 |
| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBA @ 1M |
| Speed (RPM) | 0,0 | 756 | 1440 | 1760 | 1800 | Continuous | 1,25 | 40°C | 3,300 ft | 64 |
| Current (Amps) | 32,0 | 27,2 | 19,0 | 4,0 | 2,0 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 19,2 | 14,4 | 26,9 | 9,0 | 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 |
| 3 | 460 | 1760 | TEFC | 182T | 60 Hz | B | 4 | K | F | 40 |
| Load % | 0% | 25% | 50% | 75% | 100% | 125% | 150% | | | |
| Amps | 2,04 | 2,34 | 2,68 | 3,28 | 4,00 | 4,98 | 5,90 | | | |
| Torq ft/lbs | 0 | 2,20 | 4,43 | 6,68 | 8,95 | 11,25 | 13,58 | | | |
| RPM | 0 | 1790 | 1780 | 1770 | 1760 | 1750 | 1740 | | | |
| Eff | 0 | 74,96 | 87,60 | 89,10 | 89,50 | 88,09 | 87,75 | | | |
| PF | 0 | 40 | 58 | 70 | 77 | 80,0723 | 81,3505 | | | |
| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBa @ 1M |
| Speed (RPM) | 0 | 756 | 1440 | 1760 | 1800 | Continuous | 1,25 | 40°C | 3,300 ft | 64 |
| Current (Amps) | 32 | 27,2 | 19,0 | 4 | 2,04 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 19,25 | 14,44 | 26,86 | 8,95 | 0,0 | C.T. | 10:1 | V.T. | 20:1 | VFD SF 1.00 |

