



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

Catalogue #: **MQP-106**

| HP  | kW     | Voltage | S.F. @ 60Hz | EFF.  | P.F. | Frame | Design | L.R. Amps |
|-----|--------|---------|-------------|-------|------|-------|--------|-----------|
| 300 | 223,80 | 460     | 1,15        | 95,8% | 0,91 | 449TS | B      | 2200      |

| 60 Hz |     |     |        |     |     |     | Code | F.L. RPM |
|-------|-----|-----|--------|-----|-----|-----|------|----------|
| 208   | 230 | 416 | 460    | 480 | 575 | 600 |      |          |
| /     | /   | /   | 322,00 | /   | /   |     | G    | 3580     |

| 50 Hz |     |     |             |  |            |              |      |          |
|-------|-----|-----|-------------|--|------------|--------------|------|----------|
| FLA   |     |     | S.F. @ 50Hz |  | Efficiency | Power Factor | Code | F.L. RPM |
| 190   | 380 | 415 |             |  |            |              |      |          |
| /     | 395 |     | 1,00        |  | 94,1%      | 0,910        | E    | 2980     |

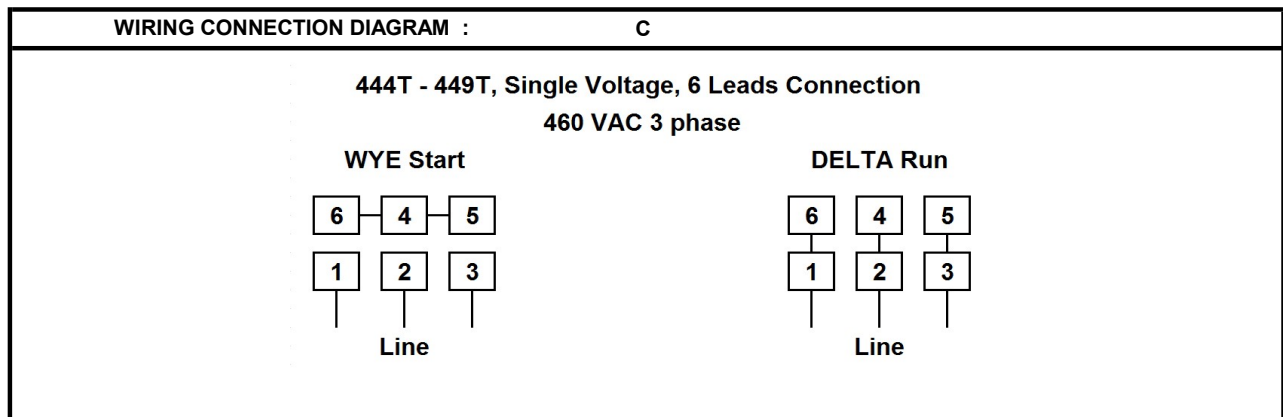
| Wgt. Lbs | PH | Duty  | Insul. Class | Amb. | Elevation        | Temp. Rise° C |
|----------|----|-------|--------------|------|------------------|---------------|
| 2002     | 3  | Cont. | F            | 40°C | 1000M (3,300 Ft) | < 80          |

| % Efficiency |       | % Power Factor |      | Torque           |       | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|-------|-------------------|------------------------|
| Full Load:   | 95,8% | Full Load:     | 0,91 | Full Load Ft/Lbs | 440,1 |                   |                        |
| 3/4 Load:    | 95,5% | 3/4 Load:      | 0,91 | Locked Rotor %   | 130   |                   |                        |
| 1/2 Load:    | 95,1% | 1/2 Load:      | 0,89 | Break Down %     | 245   | 0                 | 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 |
|--------------------------|-----------------------------|----------------|----------------|-----------------|------------------|-----------|-------------|----------------|
| 35,60                    | 310                         | 1045           | Cast Iron      | Cast Iron       | Cast Iron        | TEFC      | IP55        | 1AWG           |

| Ball Bearings |      | Grease          | Mount Type | Orientation | Paint   | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|---------|----------------------|-------------|
| DE            | ODE  |                 |            |             |         |                      |             |
| 6314          | 6314 | Mobil PolyrexEm | Rigid      | Horizontal  | RAL6022 | 98                   | 110         |

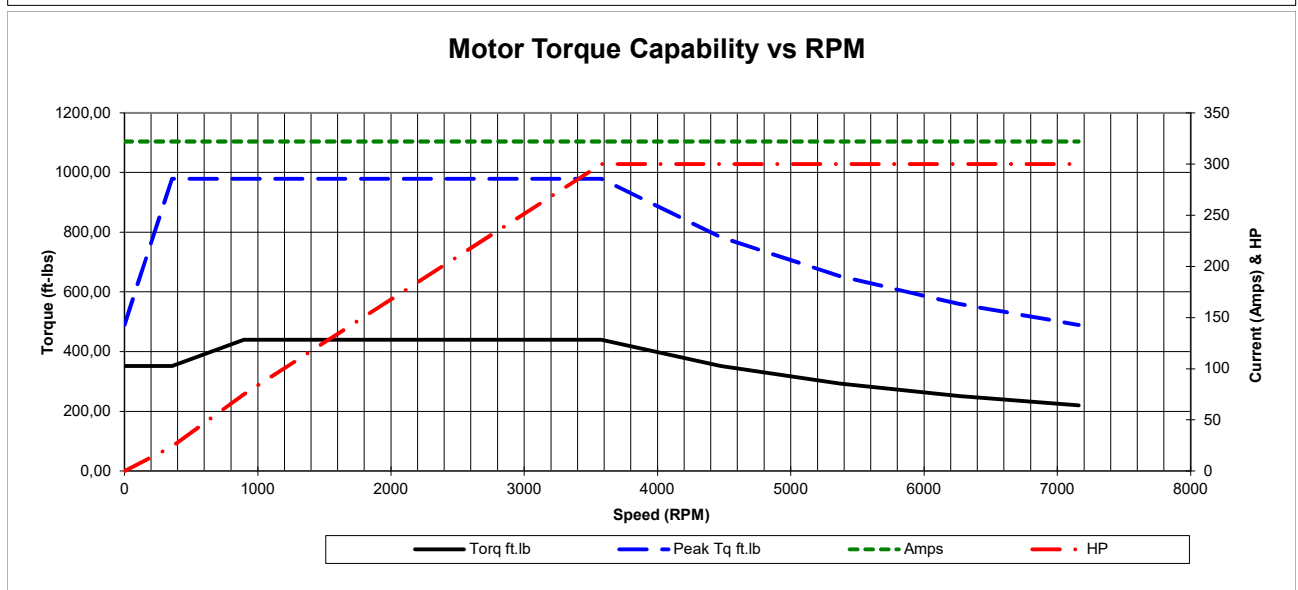
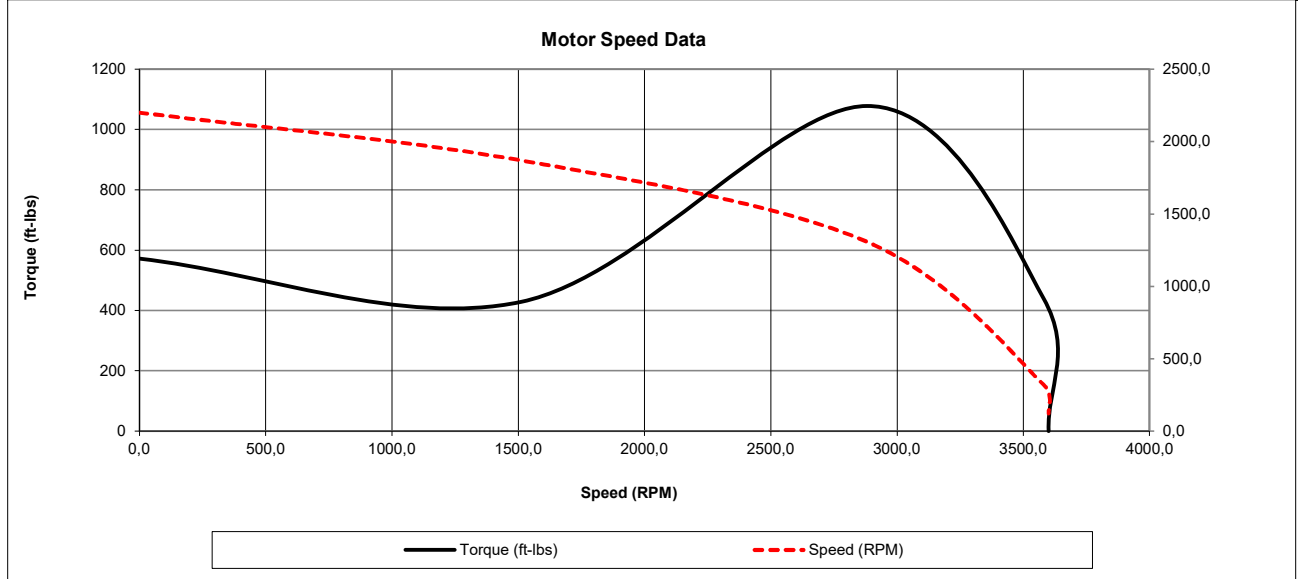
| Inverter Duty, Motor meets MG1 parts 31.4.4.2 | VFD SF | Constant Torque Range | Variable Torque Range | Constant HP RPM |
|-----------------------------------------------|--------|-----------------------|-----------------------|-----------------|
|                                               | 1,00   | 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 |
| 300                              | 460          | 3580    | TEFC      | 449TS      | 60 Hz     | B                                    | 2      | G              | F                | < 80          |
|                                  | 0Hz          | 6Hz     | 15Hz      | 30Hz       | 45Hz      | 60 Hz                                | 75Hz   | 90Hz           | 105Hz            | 120Hz         |
| Amps                             | 322          | 322     | 322       | 322        | 322       | 322                                  | 322    | 322            | 322              | 322           |
| RPM                              | 0            | 358     | 895       | 1790       | 2685      | 3580                                 | 4475   | 5370           | 6265             | 7160          |
| Torq ft.lb                       | 352,09       | 352,09  | 440,11    | 440,11     | 440,11    | 440,11                               | 352,09 | 293,41         | 251,49           | 220,06        |
| Peak Tq ft.lb                    | 489,62       | 979,25  | 979,25    | 979,25     | 979,25    | 979,25                               | 783,40 | 652,83         | 559,57           | 489,62        |
| HP                               | 0            | 24,0    | 75,0      | 150,0      | 225,0     | 300,0                                | 300,0  | 300,0          | 300,0            | 300,0         |
|                                  | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle      | Duty                                 | S. F.  | Ambient        | Elevation        | dBA @ 1M      |
| Speed (RPM)                      | 0,0          | 1512    | 2880      | 3580       | 3600      | Continuous                           | 1,15   | 40°C           | 3,300 ft         | 98            |
| Current (Amps)                   | 2200,0       | 1870,0  | 1309,0    | 322,0      | 122,4     | VFD Rating: Meets MG1 parts 31.4.4.2 |        |                |                  |               |
| Torque (ft.-lbs)                 | 572,1        | 429,1   | 1078,3    | 440,1      | 0,0       | C.T.                                 | 10:1   | V.T.           | 20:1             | VFD SF 1.00   |

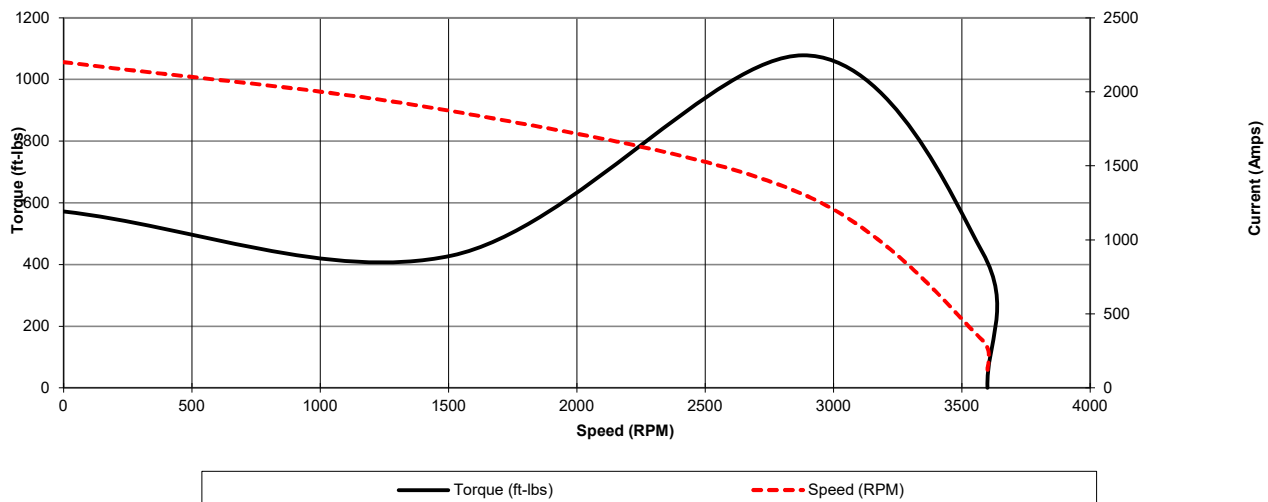


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| NEMA PREMIUM NR CAN NEMA 12 - 12 |              |         |           |            |           |                                      |        |                |                  |               |
|----------------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|--------|----------------|------------------|---------------|
| HP                               | VAC          | RPM     | Enclosure | Frame      | Frequency | Design                               | Poles  | LR Code Letter | Insulation Class | Temp. Rise °C |
| 300                              | 460          | 3580    | TEFC      | 449TS      | 60 Hz     | B                                    | 2      | G              | F                | < 80          |
| Load %                           | 0%           | 25%     | 50%       | 75%        | 100%      | 125%                                 | 150%   |                |                  |               |
| Amps                             | 122,36       | 106,26  | 190,62    | 251,48     | 322,00    | 405,15                               | 497,96 |                |                  |               |
| Torq ft/lbs                      | 0            | 109,57  | 219,44    | 329,62     | 440,11    | 550,91                               | 662,02 |                |                  |               |
| RPM                              | 0            | 3595    | 3590      | 3585       | 3580      | 3575                                 | 3570   |                |                  |               |
| Eff                              | 0            | 93,88   | 95,10     | 95,50      | 95,80     | 94,29                                | 93,92  |                |                  |               |
| PF                               | 0            | 70,4    | 89        | 91         | 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      | 3580       | 3600      | Continuous                           | 1,15   | 40°C           | 3,300 ft         | 98            |
| Current (Amps)                   | 2200         | 1870,0  | 1309,0    | 322        | 122,36    | VFD Rating: Meets MG1 parts 31.4.4.2 |        |                |                  |               |
| Torque (ft-lbs)                  | 572,15       | 429,11  | 1078,27   | 440,11     | 0,0       | C.T.                                 | 10:1   | V.T.           | 20:1             | VFD SF 1.00   |

Motor Speed Data



Motor Load Data

