



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

Catalogue #: MDP-29

| HP  | kW   | Voltage | S.F. @ 60Hz | EFF.  | P.F. | Frame | Design | L.R. Amps |
|-----|------|---------|-------------|-------|------|-------|--------|-----------|
| 7,5 | 5,60 | 416     | 1,25        | 86,5% | 0,67 | 256T  | B      | 63        |

| 60 Hz |     |       |     |     |     |     |  | Code | F.L. RPM |
|-------|-----|-------|-----|-----|-----|-----|--|------|----------|
| 208   | 230 | 416   | 460 | 480 | 575 | 600 |  |      |          |
| 26,54 | /   | 13,30 | /   | /   | /   |     |  | H    | 870      |

| 50 Hz |      |     |             |            |              |      |          |  |
|-------|------|-----|-------------|------------|--------------|------|----------|--|
| FLA   |      |     | S.F. @ 50Hz | Efficiency | Power Factor | Code | F.L. RPM |  |
| 190   | 380  | 415 |             |            |              |      |          |  |
| 27,0  | 13,5 |     | 1,00        | 84,0%      | 0,740        | G    | 715      |  |

| Wgt. Lbs | PH | Duty  | Insul. Class | Amb. | Elevation        | Temp. Rise° C |
|----------|----|-------|--------------|------|------------------|---------------|
| 229      | 3  | Cont. | F            | 40°C | 1000M (3,300 Ft) | < 80          |

| % Efficiency |       | % Power Factor |      | Torque           |      | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|------|-------------------|------------------------|
| Full Load:   | 86,5% | Full Load:     | 0,67 | Full Load Ft/Lbs | 45,3 |                   |                        |
| 3/4 Load:    | 86,5% | 3/4 Load:      | 0,59 | Locked Rotor %   | 200  |                   |                        |
| 1/2 Load:    | 84,5% | 1/2 Load:      | 0,45 | Break Down %     | 280  | 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 |
|--------------------------|-----------------------------|----------------|----------------|-----------------|------------------|-----------|-------------|----------------|
| 2,37                     | 201                         | 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  |                 |            |             |         |                      |             |
| 6309          | 6309 | Mobil PolyrexEm | Rigid      | Horizontal  | RAL6022 | 65                   | 75          |

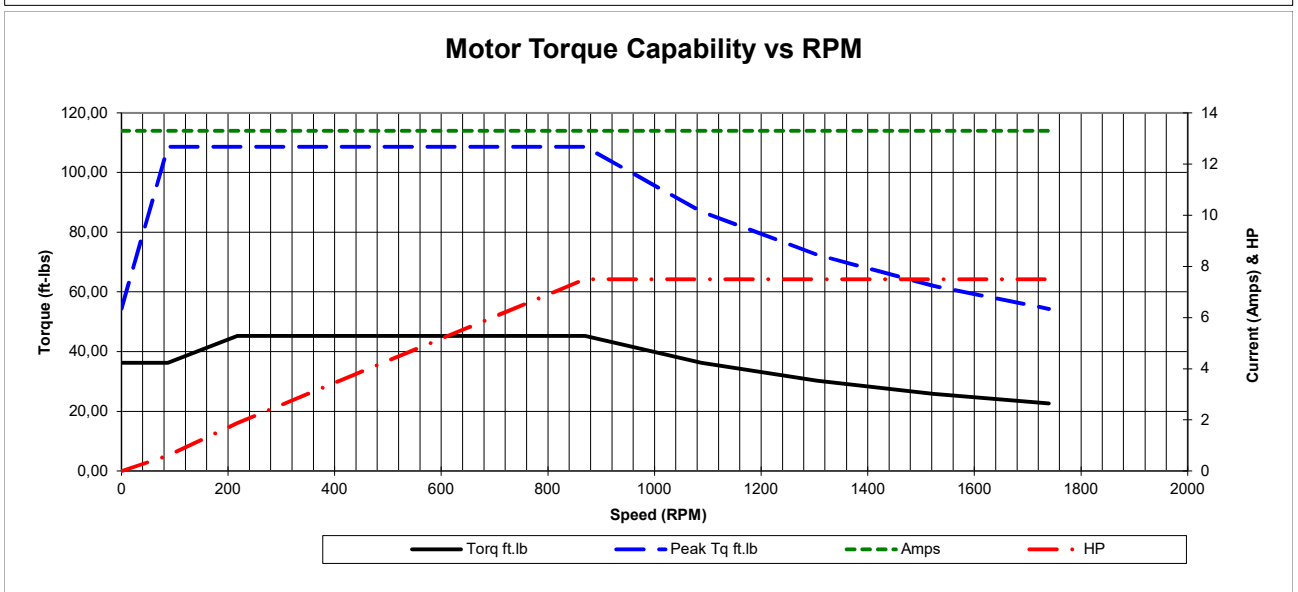
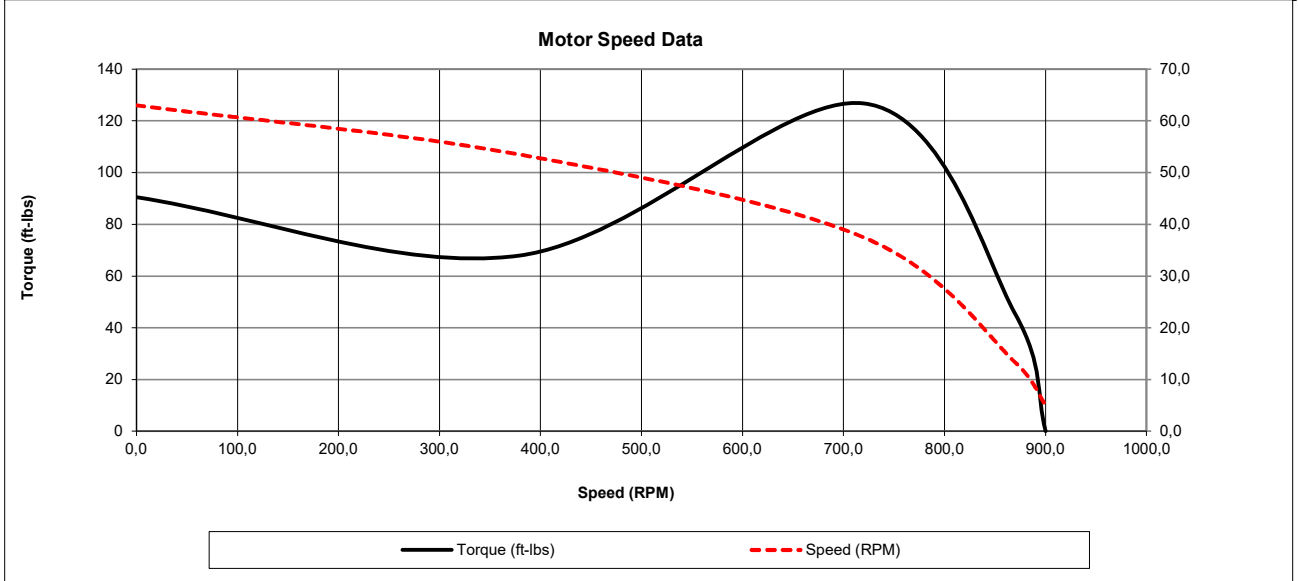
| Inverter Duty, Motor meets MG1 parts 31.4.4.2 | VFD SF | Constant Torque Range | Variable Torque Range | Constant HP RPM |
|---|--------|-----------------------|-----------------------|-----------------|
|   | 1,00   | 10:1                  | 20:1                  | 1350            |



Date: 2024-10-24  
 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   |
| 7,5                              | 416                 | 870            | TEFC             | 256T              | 60 Hz       | B   | 8            | H              | F                | < 80            |
|                                  | 0Hz                 | 6Hz            | 15Hz             | 30Hz              | 45Hz        | 60 Hz                                       | 75Hz         | 90Hz           | 105Hz            | 120Hz           |
| <b>Amps</b>                      | 13,3                | 13,3           | 13,3             | 13,3              | 13,3        | 13,3  | 13,3         | 13,3           | 13,3             | 13,3            |
| <b>RPM</b>                       | 0                   | 87             | 217,5            | 435               | 652,5       | 870   | 1087,5       | 1305           | 1522,5           | 1740            |
| <b>Torq ft.lb</b>                | 36,22               | 36,22          | 45,28            | 45,28             | 45,28       | 45,28                                       | 36,22        | 30,18          | 25,87            | 22,64           |
| <b>Peak Tq ft.lb</b>             | 54,33               | 108,66         | 108,66           | 108,66            | 108,66      | 108,66                                      | 86,93        | 72,44          | 62,09            | 54,33           |
| <b>HP</b>                        | 0                   | 0,6            | 1,9              | 3,8               | 5,6         | 7,5   | 7,5          | 7,5            | 7,5              | 7,5             |
|                                  | <b>Locked Rotor</b> | <b>Pull-Up</b> | <b>Breakdown</b> | <b>Rated Load</b> | <b>Idle</b> | <b>Duty</b>                                 | <b>S. F.</b> | <b>Ambient</b> | <b>Elevation</b> | <b>dBA @ 1M</b> |
| <b>Speed (RPM)</b>               | 0,0                 | 378            | 720              | 870               | 900         | Continuous                                  | 1,25         | 40°C           | 3,300 ft         | 65              |
| <b>Current (Amps)</b>            | 63,0                | 53,6           | 37,5             | 13,3              | 5,1         | <b>VFD Rating: Meets MG1 parts 31.4.4.2</b> |              |                |                  |                 |
| <b>Torque (ft.-lbs)</b>          | 90,6                | 67,9           | 126,8            | 45,3              | 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   |
| 7,5                              | 416                 | 870            | TEFC             | 256T              | 60 Hz       | B   | 8            | H              | F                | < 80            |
| <b>Load %</b>                    | <b>0%</b>           | <b>25%</b>     | <b>50%</b>       | <b>75%</b>        | <b>100%</b> | <b>125%</b>                                 | <b>150%</b>  |                |                  |                 |
| <b>Amps</b>                      | 5,05                | 5,68           | 7,87             | 10,39             | 13,30       | 16,36                                       | 19,16        |                |                  |                 |
| <b>Torq ft/lbs</b>               | 0                   | 11,03          | 22,25            | 33,67             | 45,28       | 57,09                                       | 69,11        |                |                  |                 |
| <b>RPM</b>                       | 0                   | 892,5          | 885              | 877,5             | 870         | 862,5                                       | 855          |                |                  |                 |
| <b>Eff</b>                       | 0                   | 52,19          | 84,50            | 86,50             | 86,50       | 85,14                                       | 84,81        |                |                  |                 |
| <b>PF</b>                        | 0                   | 65,5           | 45               | 59                | 67          | 69,68                                       | 71,69        |                |                  |                 |
|                                  | <b>Locked Rotor</b> | <b>Pull-Up</b> | <b>Breakdown</b> | <b>Rated Load</b> | <b>Idle</b> | <b>Duty</b>                                 | <b>S. F.</b> | <b>Ambient</b> | <b>Elevation</b> | <b>dBA @ 1M</b> |
| <b>Speed (RPM)</b>               | 0                   | 378            | 720              | 870               | 900         | Continuous                                  | 1,25         | 40°C           | 3,300 ft         | 65              |
| <b>Current (Amps)</b>            | 63                  | 53,6           | 37,5             | 13,3              | 5,054       | <b>VFD Rating: Meets MG1 parts 31.4.4.2</b> |              |                |                  |                 |
| <b>Torque (ft-lbs)</b>           | 90,55               | 67,91          | 126,77           | 45,28             | 0,0         | C.T.  | 10:1         | V.T.           | 20:1             | VFD SF 1.00     |

