

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

Catalogue #: **JMQP-42**

| HP | kW    | Voltage | S.F. @ 60Hz | EFF.  | P.F. | Frame | Design | L.R. Amps |
|----|-------|---------|-------------|-------|------|-------|--------|-----------|
| 20 | 14,92 | 230/460 | 1,25        | 93,0% | 0,83 | 256JM | B      | 145       |

| 60 Hz |      |       |       |       |     |      |          |
|-------|------|-------|-------|-------|-----|------|----------|
| FLA   |      |       |       |       |     | Code | F.L. RPM |
| 208   | 230  | 416   | 460   | 480   | 575 |      |          |
| 51,80 | 48,4 | 25,90 | 24,20 | 23,00 | /   | G    | 1760     |

| 50 Hz |     |       |             |  |            |              |      |          |
|-------|-----|-------|-------------|--|------------|--------------|------|----------|
| FLA   |     |       | S.F. @ 50Hz |  | Efficiency | Power Factor | Code | F.L. RPM |
| 190   | 380 | 415   |             |  |            |              |      |          |
| 58,0  | 29  | 26,50 | 1,00        |  | 91,5%      | 0,85         | F    | 1460     |

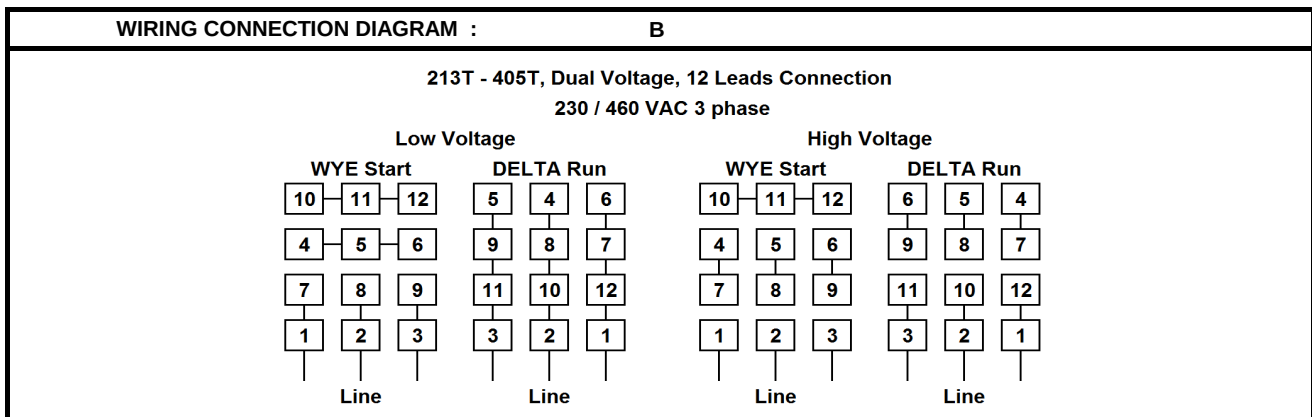
| Wgt. Lbs | PH | Duty  | Insul. Class | Amb. | Elevation       | Temp. Rise° C |
|----------|----|-------|--------------|------|-----------------|---------------|
| 315      | 3  | Cont. | F            | 40°C | 1000M (3300 Ft) | 52            |

| % Efficiency |       | % Power Factor |      | Torque           |      | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|------|-------------------|------------------------|
| Full Load:   | 93,0% | Full Load:     | 0,83 | Full Load Ft/Lbs | 59,7 |                   |                        |
| 3/4 Load:    | 93,2% | 3/4 Load:      | 0,78 | Locked Rotor %   | 200  |                   |                        |
| 1/2 Load:    | 92,9% | 1/2 Load:      | 0,68 | Break Down %     | 220  | 0,42              | 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                     | 142                         | Standard       | Cast Iron      | Standard        | Standard         | TEFC      | IP55        | 12AWG          |

| Ball Bearings |      | Grease          | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|-------|----------------------|-------------|
| DE            | ODE  |                 |            |             |       |                      |             |
| 6309          | 6309 | Mobil PolyrexEm | Rigid      | Horizontal  | Green | 74                   | 84          |

| Inverter Duty.<br>Motor meets MG1 parts 31.4.4.2 | Constant Torque Range | Variable Torque Range | Constant HP RPM |
|--------------------------------------------------|-----------------------|-----------------------|-----------------|
|                                                  | 10:1                  | 20:1                  | 2700            |

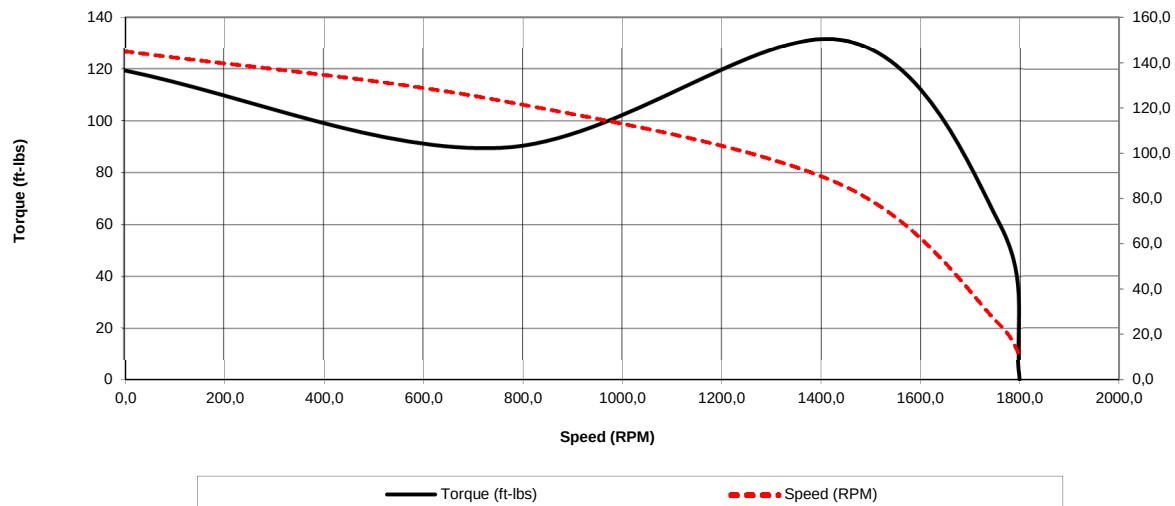


Date: 2020-04-02  
 Customer: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Submittee: J.C. Lavallée

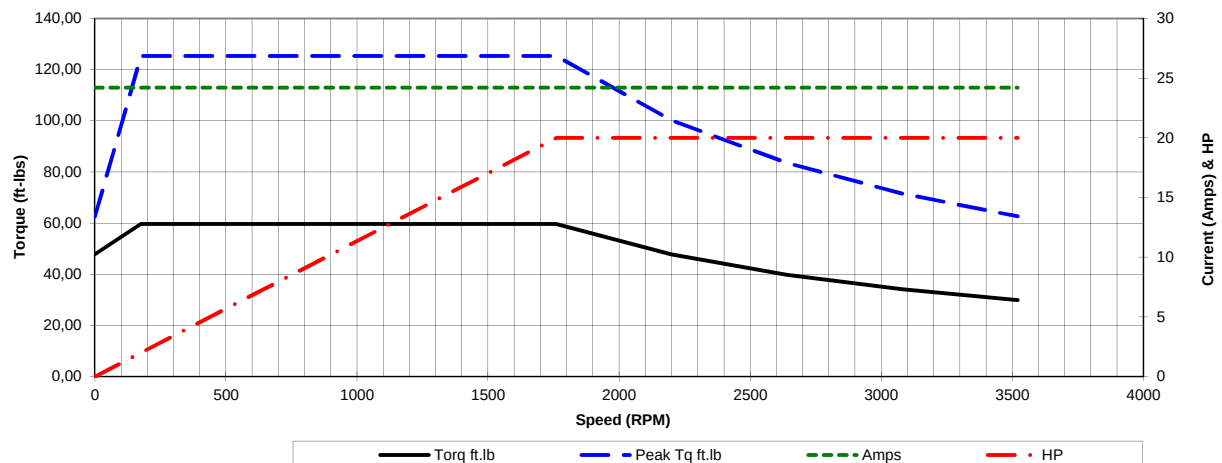
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| NEMA PREMIUM NR CAN NEMA 12 - 12 |              |         |           |            |           |                                      |        |                |                  |               |
|----------------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|--------|----------------|------------------|---------------|
| HP                               | VAC          | RPM     | Enclosure | Frame      | Frequency | Design                               | Poles  | LR Code Letter | Insulation Class | Temp. Rise °C |
| 20                               | 460          | 1760    | TEFC      | 256JM      | 60        | B                                    | 4      | G              | F                | 52            |
|                                  | 0Hz          | 6Hz     | 15Hz      | 30Hz       | 45Hz      | 60Hz                                 | 75Hz   | 90Hz           | 105Hz            | 120Hz         |
| Amps                             | 24,2         | 24,2    | 24,2      | 24,2       | 24,2      | 24,2                                 | 24,2   | 24,2           | 24,2             | 24,2          |
| RPM                              | 0            | 176     | 440       | 880        | 1320      | 1760                                 | 2200   | 2640           | 3080             | 3520          |
| Torq ft.lb                       | 47,75        | 59,68   | 59,68     | 59,68      | 59,68     | 59,68                                | 47,75  | 39,79          | 34,10            | 29,84         |
| Peak Tq ft.lb                    | 62,67        | 125,33  | 125,33    | 125,33     | 125,33    | 125,33                               | 100,27 | 83,55          | 71,62            | 62,67         |
| HP                               | 0            | 2,0     | 5,0       | 10,0       | 15,0      | 20,0                                 | 20,0   | 20,0           | 20,0             | 20,0          |
|                                  | 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           | 3300 ft          | 74            |
| Current (Amps)                   | 145,0        | 123,3   | 86,3      | 24,2       | 10,0      | VFD Rating: Meets MG1 parts 31.4.4.2 |        |                |                  |               |
| Torque (ft-lbs)                  | 119,4        | 89,5    | 131,3     | 59,7       | 0,0       | C.T.                                 | 10:1   | V.T.           | 20:1             |               |

Motor Speed Data



Motor Torque Capability vs RPM

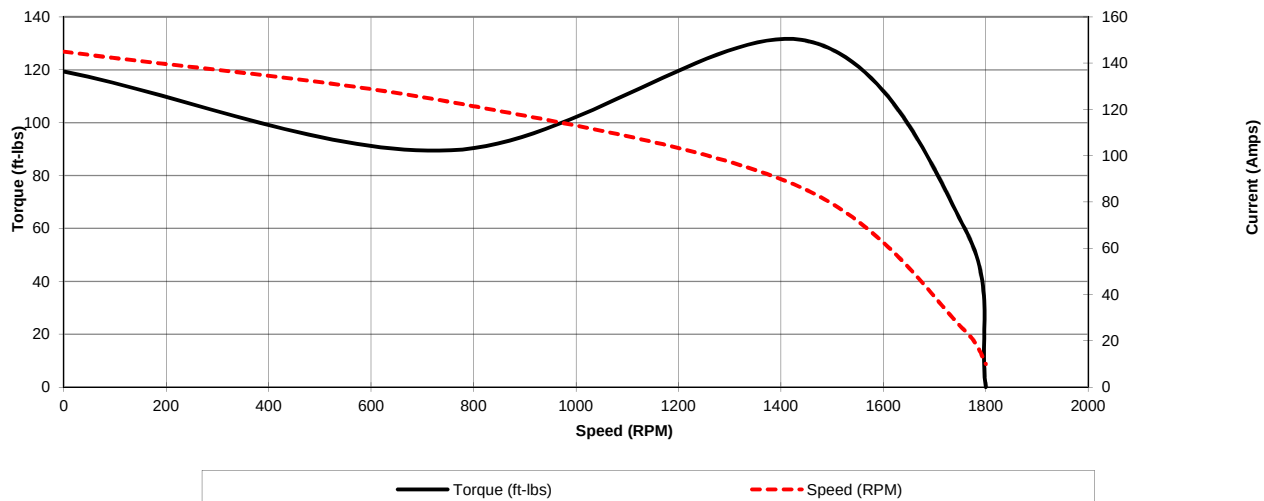


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| NEMA PREMIUM NR CAN NEMA 12 - 12 |              |         |           |            |           |                                      |       |                |                  |               |
|----------------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|-------|----------------|------------------|---------------|
| HP                               | VAC          | RPM     | Enclosure | Frame      | Frequency | Design                               | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
| 20                               | 460          | 1760    | TEFC      | 256JM      | 60        | B                                    | 4     | G              | F                | 52            |
| Load %                           | 0%           | 25%     | 50%       | 75%        | 100%      | 125%                                 | 150%  |                |                  |               |
| Amps                             | 10,00        | 11,30   | 14,80     | 19,40      | 24,20     | 30,14                                | 36,26 |                |                  |               |
| Torq ft./lbs                     | 0            | 14,75   | 29,50     | 44,55      | 59,67     | 75,01                                | 90,58 |                |                  |               |
| RPM                              | 0            | 1790    | 1780      | 1770       | 1760      | 1750                                 | 1740  |                |                  |               |
| Eff                              | 0            | 89,29   | 92,90     | 93,20      | 93,00     | 93,00                                | 93,00 |                |                  |               |
| PF                               | 0            | 46,4    | 68,3      | 78,3       | 83        | 83,5                                 | 83,3  |                |                  |               |
|                                  | 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           | 3300 ft          | 74            |
| Current (Amps)                   | 145          | 123,3   | 86,3      | 24,2       | 10        | VFD Rating: Meets MG1 parts 31.4.4.2 |       |                |                  |               |
| Torque (ft.-lbs)                 | 119,36       | 89,52   | 131,30    | 59,68      | 0,0       | C.T.                                 | 10:1  | V.T.           | 20:1             |               |

Motor Speed Data



Motor Load Data

