

# MaxMotion

## PERFORMANCE DATA SHEET

Meets or exceeds MEPS (Minimum Efficiency Performance Standards), as described by the US Department of Energy in docket 10CFR431 and Natural Resources Canada's Amendment 14

Catalogue #: **MQRP-104JH**

| HP | kW   | Voltage   | S.F. @ 60Hz | Efficiency | Power Factor | Frame | Design | L.R. Amps |
|----|------|-----------|-------------|------------|--------------|-------|--------|-----------|
| 1  | 0,75 | 230 / 460 | 1,15        | 86,5%      | 0,770        | 56J   | B      | 15        |

| 60 Hz |      |     |      |     |     |     |      |          |
|-------|------|-----|------|-----|-----|-----|------|----------|
| FLA   |      |     |      |     |     |     | Code | F.L. RPM |
| 208   | 230  | 416 | 460  | 480 | 575 | 600 |      |          |
| /     | 2,82 | /   | 1,41 | /   | /   | /   | L    | 1752     |

| 50 Hz |        |     |     |             |            |              |      |          |
|-------|--------|-----|-----|-------------|------------|--------------|------|----------|
| HP    | kW     | FLA |     | S.F. @ 50Hz | Efficiency | Power Factor | Code | F.L. RPM |
|       |        | 190 | 380 |             |            |              |      |          |
| 0,75  | 0,5595 | 3,0 | 1,5 | 1,15        | 82,5%      | 0,64         | L    | 1440     |

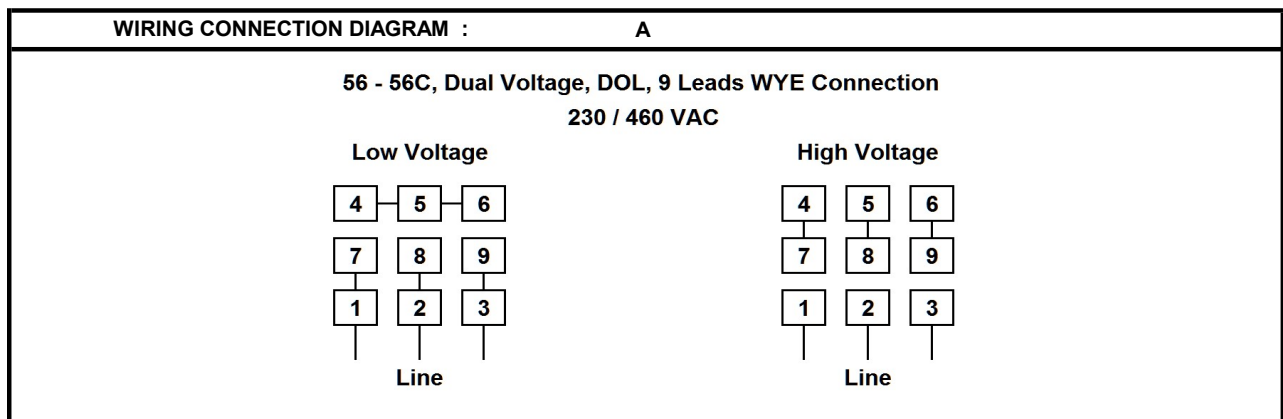
| Wgt. Lbs | PH | Duty  | Insul. Class | Amb. | Elevation       | Temp. Rise° C |
|----------|----|-------|--------------|------|-----------------|---------------|
| 27       | 3  | Cont. | F            | 40°C | 1000M (3300 Ft) | 43            |

| % Efficiency |       | % Power Factor |      | Torque           |     | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|-----|-------------------|------------------------|
| Full Load:   | 86,5% | Full Load:     | 0,77 | Full Load Ft/Lbs | 3,0 |                   |                        |
| 3/4 Load:    | 87,3% | 3/4 Load:      | 0,67 | Locked Rotor %   | 387 |                   |                        |
| 1/2 Load:    | 83,9% | 1/2 Load:      | 0,53 | Break Down %     | 452 | 4,37 / 17,4       | 12                     |

| 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 |
|--------------------------|-----------------------------|----------------|----------------|-----------------|------------------|-----------|-------------|----------------|
| /                        | /                           | 304SS          | Rolled Steel   | Aluminium Alloy |                  | TEFC      | IP55        | 16AWG          |

| Ball Bearings |      | Grease          | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|-------|----------------------|-------------|
| DE            | ODE  |                 |            |             |       |                      |             |
| 6205          | 6203 | Sealed Bearings | Rigid      | Horizontal  | Black | 57                   | /           |

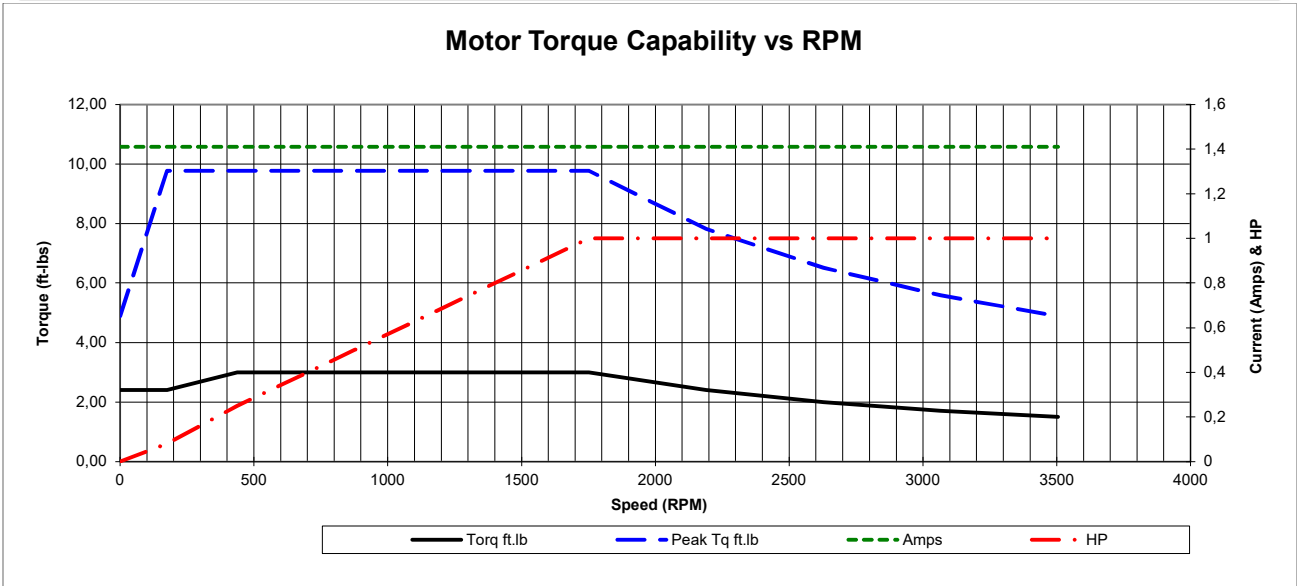
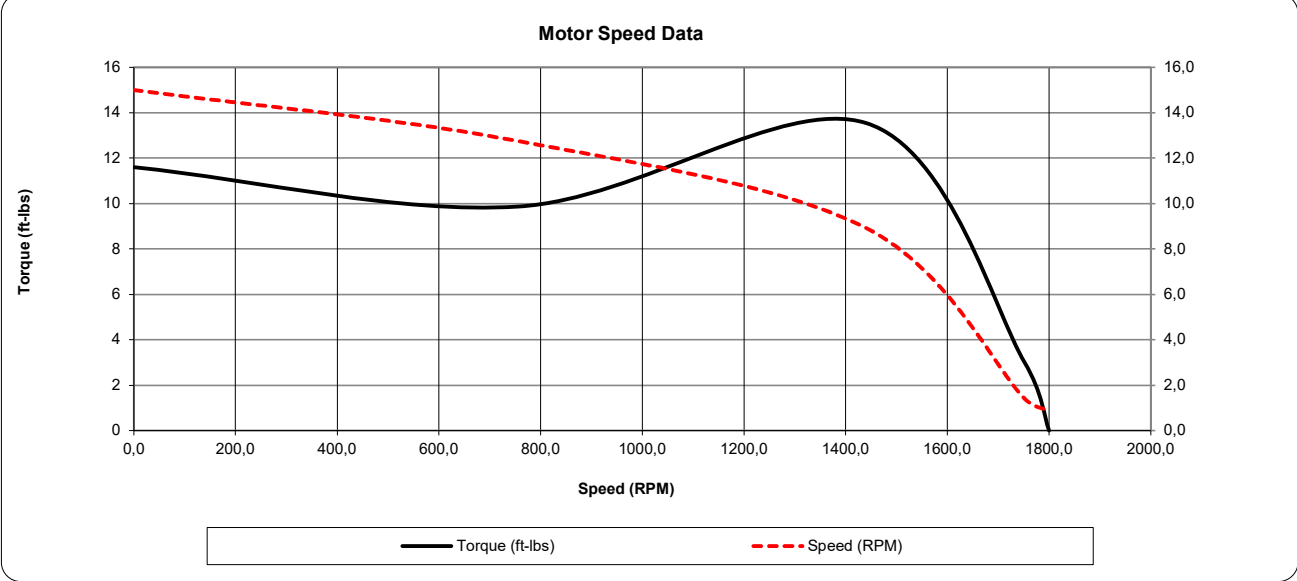
| Inverter Duty.<br>Motor meets MG1 parts 31.4.4.2 | Constant Torque Range | Variable Torque Range | Constant HP RPM |
|--------------------------------------------------|-----------------------|-----------------------|-----------------|
|                                                  | 10:1     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



Date: 2024-05-01  
Customer:  
Contact:  
Submittee: J.C. Lavallée

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|-------|----------------|------------------|---------------|
| HP                                                                                                                                                                           | VAC          | RPM     | Enclosure | Frame      | Frequency | Design                               | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
| 1                                                                                                                                                                            | 460          | 1752    | TEFC      | 56J        | 60        | B                                    | 4     | L              | F                | 43            |
|                                                                                                                                                                              | 0Hz          | 6Hz     | 15Hz      | 30Hz       | 45Hz      | 60Hz                                 | 75Hz  | 90Hz           | 105Hz            | 120Hz         |
| Amps                                                                                                                                                                         | 1,41         | 1,41    | 1,41      | 1,41       | 1,41      | 1,41                                 | 1,41  | 1,41           | 1,41             | 1,41          |
| RPM                                                                                                                                                                          | 0            | 175,2   | 438       | 876        | 1314      | 1752                                 | 2190  | 2628           | 3066             | 3504          |
| Torq ft.lb                                                                                                                                                                   | 2,40         | 2,40    | 3,00      | 3,00       | 3,00      | 3,00                                 | 2,40  | 2,00           | 1,71             | 1,50          |
| Peak Tq ft.lb                                                                                                                                                                | 4,89         | 9,77    | 9,77      | 9,77       | 9,77      | 9,77                                 | 7,82  | 6,52           | 5,58             | 4,89          |
| HP                                                                                                                                                                           | 0            | 0,1     | 0,3       | 0,5        | 0,8       | 1,0                                  | 1,0   | 1,0            | 1,0              | 1,0           |
|                                                                                                                                                                              | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle      | Duty                                 | S. F. | Ambient        | Elevation        | dBA @ 1M      |
| Speed (RPM)                                                                                                                                                                  | 0,0          | 756     | 1440      | 1752       | 1800      | Continuous                           | 1,15  | 40°C           | 3,300 ft         | 57            |
| Current (Amps)                                                                                                                                                               | 15,0         | 12,8    | 8,9       | 1,4        | 0,9       | VFD Rating: Meets MG1 parts 31.4.4.2 |       |                |                  |               |
| Torque (ft-lbs)                                                                                                                                                              | 11,6         | 9,9     | 13,5      | 3,0        | 0,0       | C.T.                                 | 10:1  | V.T.           | 20:1             |               |





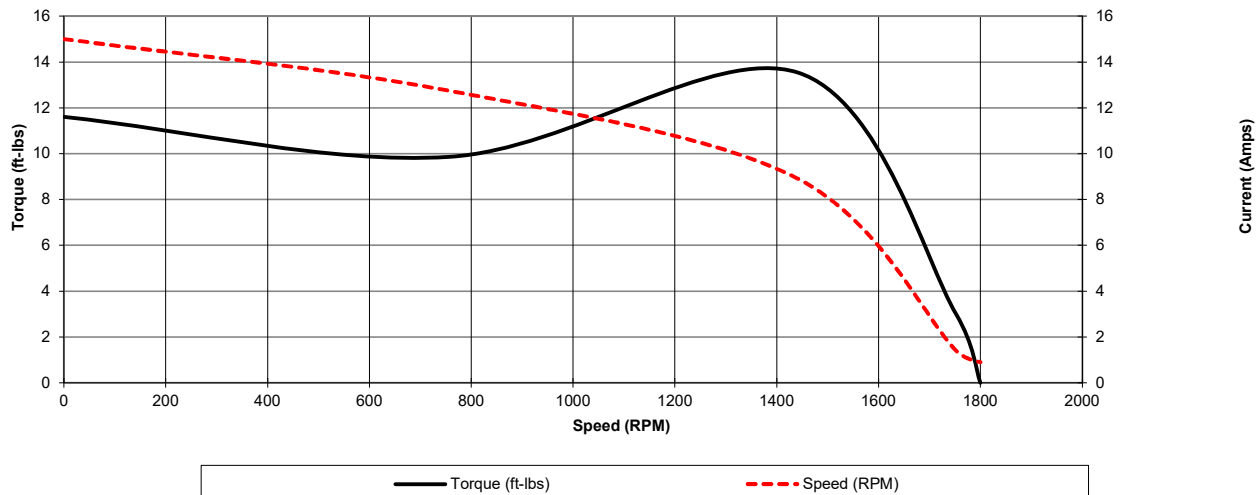
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| HP              | VAC     | RPM       | Enclosure  | Frame | Frequency | Design                               | Poles   | LR Code Letter | Insulation Class | Temp. Rise °C |
|-----------------|---------|-----------|------------|-------|-----------|--------------------------------------|---------|----------------|------------------|---------------|
| 1               | 460     | 1752      | TEFC       | 56J   | 60        | B                                    | 4       | L              | F                | 43            |
| Load %          | 0%      | 25%       | 50%        | 75%   | 100%      | 125%                                 | 150%    |                |                  |               |
| Amps            | 0,90    | 0,99      | 1,06       | 1,21  | 1,41      | 1,76                                 | 2,12    |                |                  |               |
| Torq ft/lbs     | 0       | 0,73      | 1,48       | 2,23  | 3,00      | 3,77                                 | 4,56    |                |                  |               |
| RPM             | 0       | 1788      | 1776       | 1764  | 1752      | 1740                                 | 1728    |                |                  |               |
| Eff             | 0       | 62,22     | 83,18      | 86,98 | 86,50     | 84,55                                | 82,14   |                |                  |               |
| PF              | 0       | 38,0      | 53         | 67    | 77,0      | 78,5                                 | 80,9    |                |                  |               |
| Locked Rotor    | Pull-Up | Breakdown | Rated Load | Idle  | Duty      | S. F.                                | Ambient | Elevation      | dBA @ 1M         |               |
| Speed (RPM)     | 0       | 756       | 1440       | 1752  | 1800      | Continuous                           | 1,15    | 40°C           | 3,300 ft         | 57            |
| Current (Amps)  | 15      | 12,8      | 8,9        | 1,41  | 0,898     | VFD Rating: Meets MG1 parts 31.4.4.2 |         |                |                  |               |
| Torque (ft-lbs) | 11,60   | 9,86      | 13,55      | 3,00  | 0,0       | C.T.                                 | 10:1    | V.T.           | 20:1             |               |

Motor Speed Data



440T - 460T Dual Voltage DOL & 1 lead WYE Connection

Motor Load Data

