



## PERFORMANCE DATA SHEET

Meets or exceeds MEPS, as described by the US DOE in docket 10CFR431 and NRCAN's Amendment 14

Catalogue #: **MQSP-202RB**

| HP | kW   | Voltage | S.F. @ 60Hz | Efficiency | Power Factor | Frame | Design | L.R. Amps |
|----|------|---------|-------------|------------|--------------|-------|--------|-----------|
| 2  | 1,49 | 230/460 | 1,15        | 85,5%      | 0,913        | 56C   | B      | 25        |

| 60 Hz |     |      |     |      |     |     |      |          |
|-------|-----|------|-----|------|-----|-----|------|----------|
| FLA   |     |      |     |      |     |     | Code | F.L. RPM |
| 208   | 230 | 416  | 460 | 480  | 575 | 600 |      |          |
| /     | 4,8 | 2,65 | 2,4 | 2,30 | /   | /   | K    | 3480     |

| 50 Hz |     |     |             |  |            |              |      |          |
|-------|-----|-----|-------------|--|------------|--------------|------|----------|
| FLA   |     |     | S.F. @ 50Hz |  | Efficiency | Power Factor | Code | F.L. RPM |
| 190   | 380 | 415 |             |  |            |              |      |          |
| 5,8   | 2,9 | /   | 1,00        |  | 84,0%      | 0,93         | K    | 2880     |

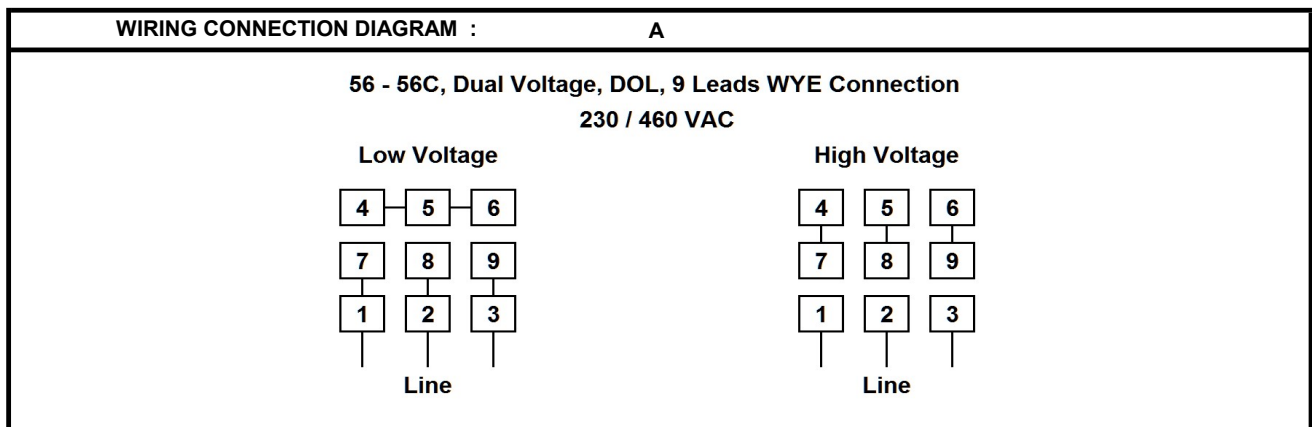
| Wgt. Lbs | PH | Duty  | Insul. Class | Amb. | Elevation       | Temp. Rise° C |
|----------|----|-------|--------------|------|-----------------|---------------|
| 46       | 3  | Cont. | F            | 40°C | 1000M (3300 Ft) | 32            |

| % Efficiency |       | % Power Factor |      | Torque           |     |                   |                        |
|--------------|-------|----------------|------|------------------|-----|-------------------|------------------------|
| Full Load:   | 85,5% | Full Load:     | 0,91 | Full Load Ft/Lbs | 3,0 | Winding Resist. Ω | Safe Cold Start (Secs) |
| 3/4 Load:    | 85,4% | 3/4 Load:      | 0,87 | Locked Rotor %   | 240 |                   |                        |
| 1/2 Load:    | 85,3% | 1/2 Load:      | 0,75 | Break Down %     | 320 | 6,5               | 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 |
|--------------------------|-----------------------------|----------------|-----------------|-----------------|------------------|-----------|-------------|----------------|
| 0,04                     | 3,5                         | 304SS          | Stainless Steel |                 |                  | TEFC      | IP69K       | 16AWG          |

| Ball Bearings |      | Grease          | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|-------|----------------------|-------------|
| DE            | ODE  |                 |            |             |       |                      |             |
| 6205          | 6205 | Sealed Bearings | Footless   | Horizontal  | -     | 76                   | 85          |

| Inverter Duty.<br>Motor meets MG1 parts 31.4.4.2 | Constant Torque Range | Variable Torque Range | Constant HP RPM |
|--------------------------------------------------|-----------------------|-----------------------|-----------------|
|                                                  | 10:1                  | 20:1                  | 5400            |



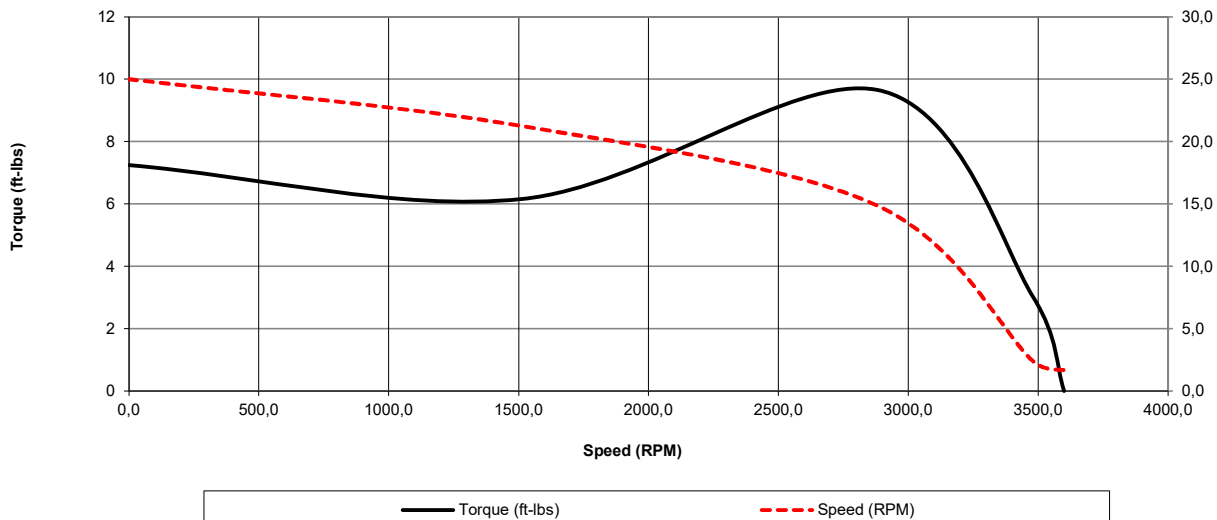
Date: 2024-01-26  
 Customer:   
 Contact:   
 Submittee: J.C. Lavallée

Catalogue #: MQSP-202RB

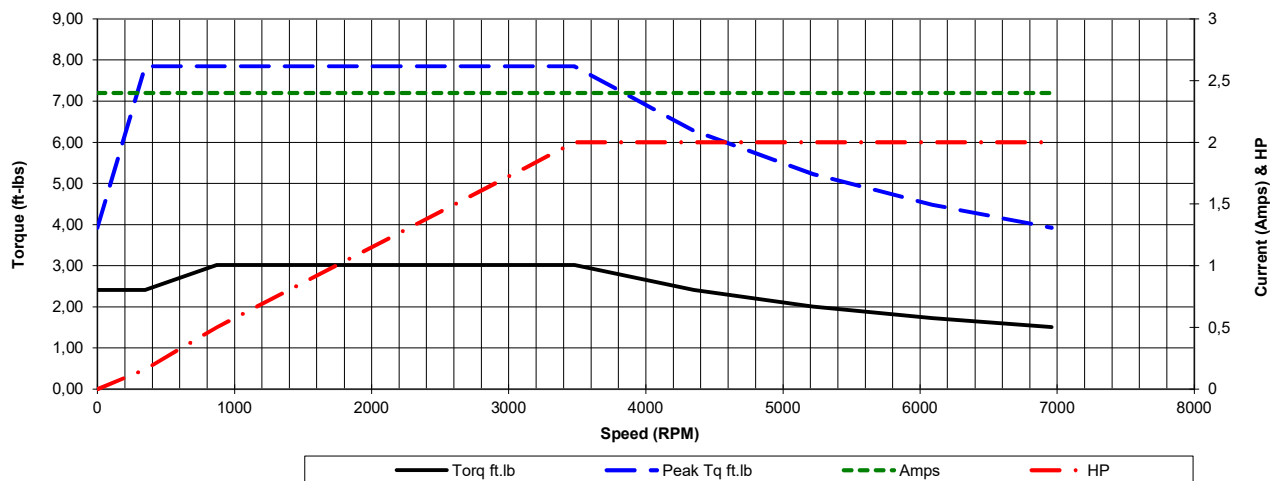
Meets or exceeds MEPS, as described by the US DOE in docket 10CFR431 and NRCan's Amendment 14

| HP              | VAC          | RPM     | Enclosure | Frame      | Frequency | Design                               | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
|-----------------|--------------|---------|-----------|------------|-----------|--------------------------------------|-------|----------------|------------------|---------------|
| 2               | 460          | 3480    | TEFC      | 56C        | 60        | B                                    | 2     | K              | F                | 32            |
|                 | 0Hz          | 6Hz     | 15Hz      | 30Hz       | 45Hz      | 60Hz                                 | 75Hz  | 90Hz           | 105Hz            | 120Hz         |
| Amps            | 2,4          | 2,4     | 2,4       | 2,4        | 2,4       | 2,4                                  | 2,4   | 2,4            | 2,4              | 2,4           |
| RPM             | 0            | 348     | 870       | 1740       | 2610      | 3480                                 | 4350  | 5220           | 6090             | 6960          |
| Torq ft.lb      | 2,41         | 2,41    | 3,02      | 3,02       | 3,02      | 3,02                                 | 2,41  | 2,01           | 1,72             | 1,51          |
| Peak Tq ft.lb   | 3,92         | 7,85    | 7,85      | 7,85       | 7,85      | 7,85                                 | 6,28  | 5,23           | 4,48             | 3,92          |
| HP              | 0            | 0,2     | 0,5       | 1,0        | 1,5       | 2,0                                  | 2,0   | 2,0            | 2,0              | 2,0           |
|                 | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle      | Duty                                 | S. F. | Ambient        | Elevation        | dBA @ 1M      |
| Speed (RPM)     | 0,0          | 1512    | 2880      | 3480       | 3600      | Continuous                           | 1,15  | 40°C           | 3,300 ft         | 76            |
| Current (Amps)  | 25,0         | 21,3    | 14,9      | 2,4        | 1,7       | VFD Rating: Meets MG1 parts 31.4.4.2 |       |                |                  |               |
| Torque (ft-lbs) | 7,2          | 6,2     | 9,7       | 3,0        | 0,0       | CT :                                 | 10:1  | VT :           | 20:1             |               |

Motor Speed Data



Motor Torque Capability vs RPM



Date: 2024-01-26  
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| HP | VAC | RPM  | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
|----|-----|------|-----------|-------|-----------|--------|-------|----------------|------------------|---------------|
| 2  | 460 | 3480 | TEFC      | 56C   | 60        | B      | 2     | K              | F                | 32            |

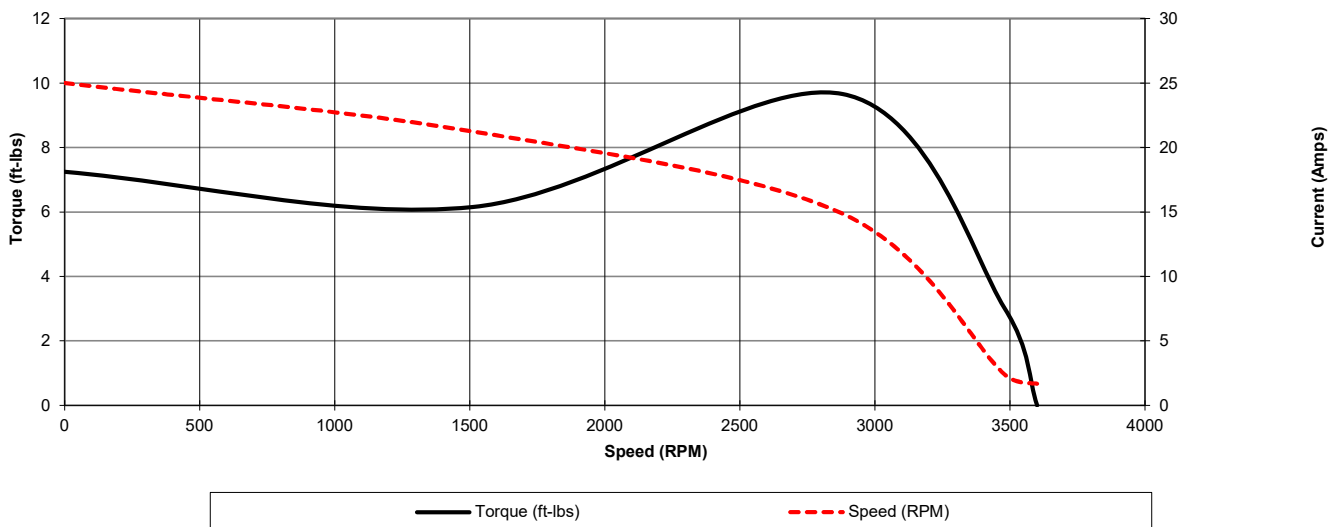
  

| Load %      | 0%   | 25%   | 50%   | 75%   | 100%  | 125%  | 150%  |
|-------------|------|-------|-------|-------|-------|-------|-------|
| Amps        | 1,68 | 1,82  | 1,95  | 2,11  | 2,40  | 3,00  | 3,60  |
| Torq ft/lbs | 0    | 0,74  | 1,48  | 2,24  | 3,02  | 3,81  | 4,61  |
| RPM         | 0    | 3570  | 3540  | 3510  | 3480  | 3450  | 3420  |
| Eff         | 0    | 57,04 | 64,14 | 76,44 | 85,50 | 83,82 | 81,43 |
| PF          | 0    | 45,0  | 75    | 87    | 91,3  | 93,1  | 95,8  |

|                 | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty                                 | S. F. | Ambient | Elevation | dBA @ 1M |
|-----------------|--------------|---------|-----------|------------|------|--------------------------------------|-------|---------|-----------|----------|
| Speed (RPM)     | 0            | 1512    | 2880      | 3480       | 3600 | Continuous                           | 1,15  | 40°C    | 3,300 ft  | 76       |
| Current (Amps)  | 25           | 21,3    | 14,9      | 2,4        | 1,68 | VFD Rating: Meets MG1 parts 31.4.4.2 |       |         |           |          |
| Torque (ft-lbs) | 7,24         | 6,16    | 9,66      | 3,02       | 0,0  | CT                                   | 10:1  | VT      | 20:1      |          |

Motor Speed Data



Motor Load Data

