



PERFORMANCE DATA SHEET

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

Catalogue #: MQS-342L

| HP | kW | Voltage | S.F. @ 60Hz | Efficiency | Power Factor | Frame | Design | L.R. Amps |
|------|------|-----------|-------------|------------|--------------|-------|--------|-----------|
| 0,75 | 0,56 | 230 / 460 | 1,15 | 77,0% | 0,760 | 56C | B | 12 |

| 60 Hz | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|------|----------|
| FLA | | | | | | | Code | F.L. RPM |
| 208 | 230 | 416 | 460 | 480 | 575 | 600 | | |
| / | 2,4 | / | 1,2 | / | / | / | | |

| 50 Hz | | | | | | | | |
|-------|------|-----|-------------|------------|--------------|------|----------|------|
| FLA | | | S.F. @ 50Hz | Efficiency | Power Factor | Code | F.L. RPM | |
| 190 | 380 | 415 | | | | | | 1,00 |
| 2,5 | 1,25 | / | | | | | | |

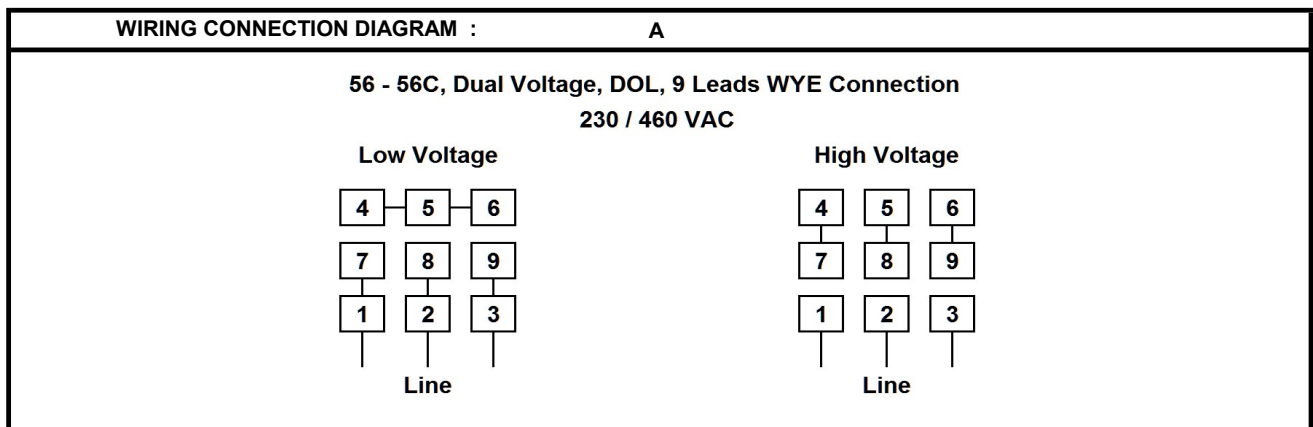
| Wgt. Lbs | PH | Duty | Insul. Class | Amb. | Elevation | Temp. Rise° C |
|----------|----|-------|--------------|------|-----------------|---------------|
| 33 | 3 | Cont. | F | 40°C | 1000M (3300 Ft) | 56 |

| % Efficiency | | % Power Factor | | Torque | | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|-----|-------------------|------------------------|
| Full Load: | 77,0% | Full Load: | 0,76 | Full Load Ft/Lbs | 1,1 | | |
| 3/4 Load: | 75,6% | 3/4 Load: | 0,67 | Locked Rotor % | 250 | | |
| 1/2 Load: | 62,6% | 1/2 Load: | 0,53 | Break Down % | 276 | | |

| 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 | Stainless Steel | | | TENV | IP69K | 16AWG |

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

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



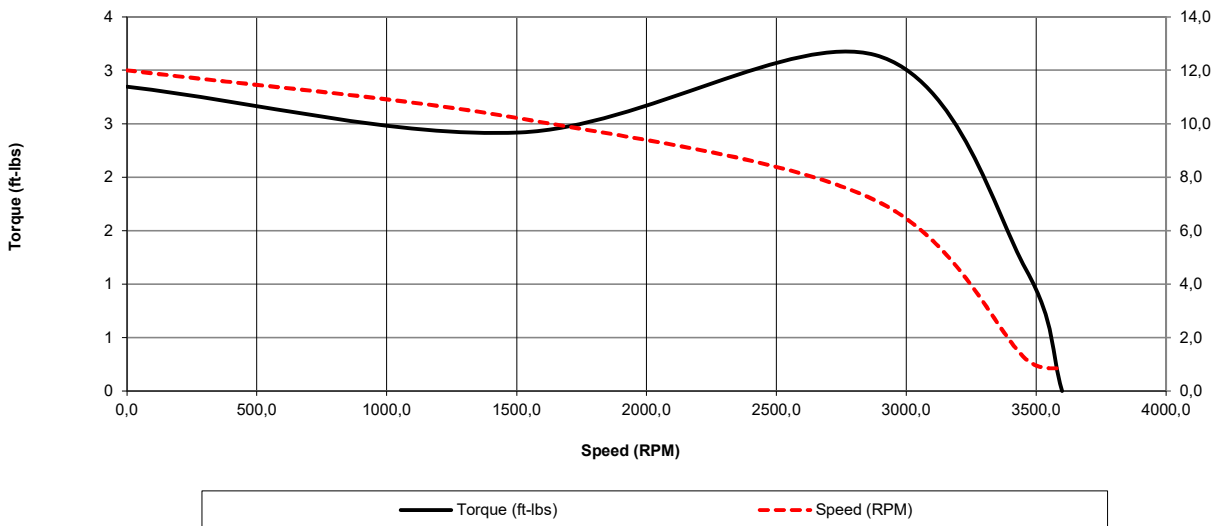
Date: 2024-01-29
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

Catalogue #: **MQS-342L**

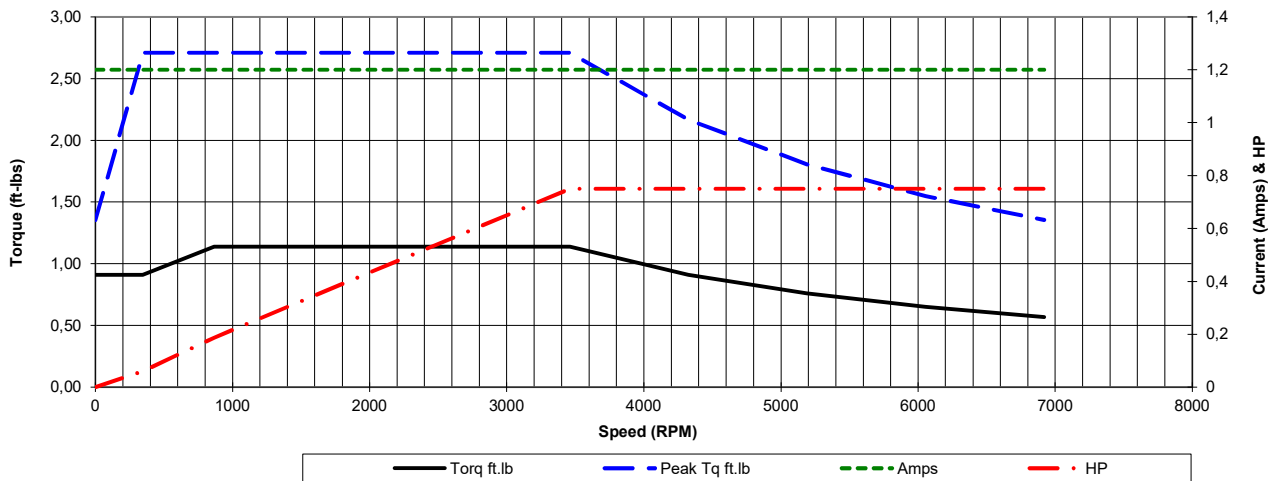
Meets or exceeds MEPS, as described by the US DOE in docket 10CFR431 and NRCan's Amendment 14

| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
|-----------------|--------------|---------|-----------|------------|-----------|---|-------|----------------|------------------|---------------|
| 0,75 | 460 | 3460 | TENV | 56C | 60 | B | 2 | K | F | 56 |
| | 0Hz | 6Hz | 15Hz | 30Hz | 45Hz | 60Hz | 75Hz | 90Hz | 105Hz | 120Hz |
| Amps | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 |
| RPM | 0 | 346 | 865 | 1730 | 2595 | 3460 | 4325 | 5190 | 6055 | 6920 |
| Torq ft.lb | 0,91 | 0,91 | 1,14 | 1,14 | 1,14 | 1,14 | 0,91 | 0,76 | 0,65 | 0,57 |
| Peak Tq ft.lb | 1,35 | 2,71 | 2,71 | 2,71 | 2,71 | 2,71 | 2,17 | 1,81 | 1,55 | 1,35 |
| HP | 0 | 0,1 | 0,2 | 0,4 | 0,6 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 |
| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBa @ 1M |
| Speed (RPM) | 0,0 | 1512 | 2880 | 3460 | 3600 | Continuous | 1,15 | 40°C | 3,300 ft | / |
| Current (Amps) | 12,0 | 10,2 | 7,1 | 1,2 | 0,8 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 2,8 | 2,4 | 3,1 | 1,1 | 0,0 | CT : | 10:1 | VT : | 20:1 | |

Motor Speed Data



Motor Torque Capability vs RPM



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| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
|------|-----|------|-----------|-------|-----------|--------|-------|----------------|------------------|---------------|
| 0,75 | 460 | 3460 | TENV | 56C | 60 | B | 2 | K | F | 56 |

| Load % | 0% | 25% | 50% | 75% | 100% | 125% | 150% |
|-------------|------|-------|-------|-------|-------|-------|-------|
| Amps | 0,84 | 0,91 | 0,97 | 1,06 | 1,20 | 1,50 | 1,80 |
| Torq ft/lbs | 0 | 0,28 | 0,56 | 0,85 | 1,14 | 1,44 | 1,74 |
| RPM | 0 | 3565 | 3530 | 3495 | 3460 | 3425 | 3390 |
| Eff | 0 | 58,91 | 68,07 | 74,58 | 77,00 | 75,49 | 73,33 |
| PF | 0 | 32,7 | 53 | 66,88 | 76,0 | 77,5 | 79,8 |

| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBA @ 1M |
|-----------------|--------------|---------|-----------|------------|------|---|-------|---------|-----------|----------|
| Speed (RPM) | 0 | 1512 | 2880 | 3460 | 3600 | Continuous | 1,15 | 40°C | 3,300 ft | / |
| Current (Amps) | 12 | 10,2 | 7,1 | 1,2 | 0,84 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 2,85 | 2,42 | 3,14 | 1,14 | 0,0 | CT | 10:1 | VT | 20:1 | |

