

MaxMotion

PERFORMANCE DATA SHEET

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

Catalogue #: **MPS-7112**

| HP | kW | Voltage | S.F. @ 60Hz | EFF. | P.F. | Frame | Design | L.R. Amps |
|-----|------|---------|-------------|-------|-------|-------|--------|-----------|
| 0,5 | 0,37 | 575 | 1,15 | 80,0% | 0,760 | 71 | B | 8 |

| 60 Hz | | | | | | | | |
|-------|-----|-----|-----|-----|------|-----|------|----------|
| FLA | | | | | | | Code | F.L. RPM |
| 208 | 230 | 416 | 460 | 480 | 575 | 600 | | |
| / | / | / | / | / | 0,62 | / | K | 3515 |

| 50 Hz | | | | | | | | |
|-------|-----|-----|-------------|------------|--------------|------|----------|--|
| FLA | | | S.F. @ 50Hz | Efficiency | Power Factor | Code | F.L. RPM | |
| 190 | 380 | 415 | | | | | | |
| / | / | / | / | / | / | / | / | |

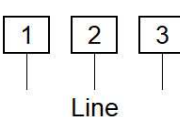
| Wgt. Lbs | PH | Duty | Insul. Class | Amb. | Elevation | Temp. Rise° C |
|----------|----|-------|--------------|------|-----------------|---------------|
| 25,3 | 3 | Cont. | F | 40°C | 1000M (3300 Ft) | 30 |

| % Efficiency | | % Power Factor | | Torque | | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|-----|-------------------|------------------------|
| Full Load: | 80,0% | Full Load: | 0,76 | Full Load Ft/Lbs | 0,7 | | |
| 3/4 Load: | 76,7% | 3/4 Load: | 0,64 | Locked Rotor % | 400 | / | 12 |
| 1/2 Load: | 69,6% | 1/2 Load: | 0,49 | Break Down % | 450 | | |

| 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 |
|--------------------------|-----------------------------|---------------------|----------------|-----------------|------------------|-----------|-------------|----------------|
| / | / | Stainless Steel 304 | | | | TENV | IP66 | 0 |

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

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

| WIRING CONNECTION DIAGRAM : | D | Nema C (IEC L) Dimension (mm) | 250 mm |
|--|---|-------------------------------|--------|
| <p>63 - 132, Single Voltage, DOL, 3 Leads WYE Connection 575 VAC 3 phase</p>  | | | |

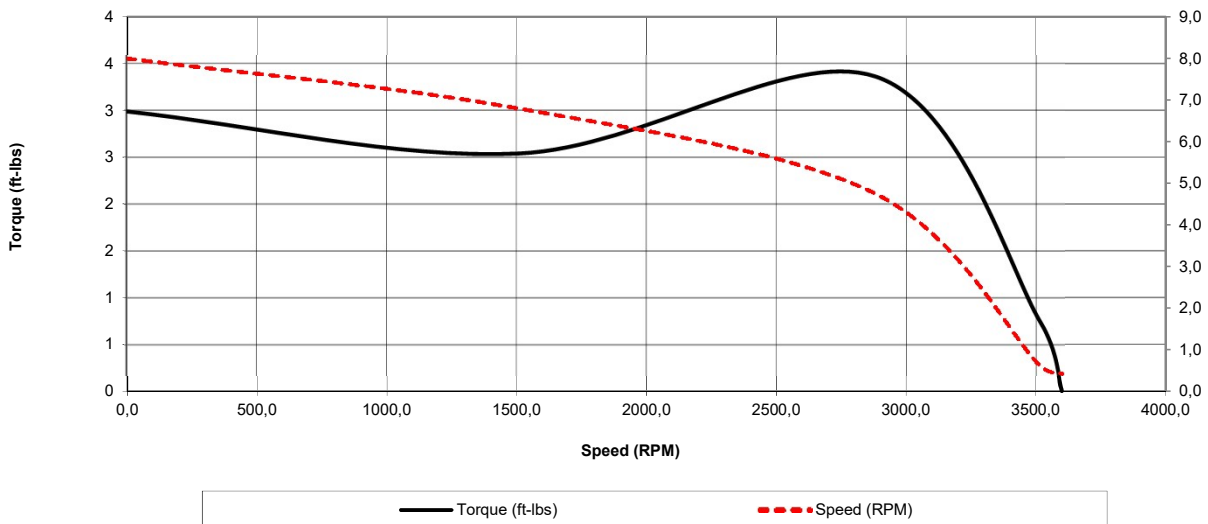
Date: 2019-01-29
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

Catalogue #: **MPS-7112**

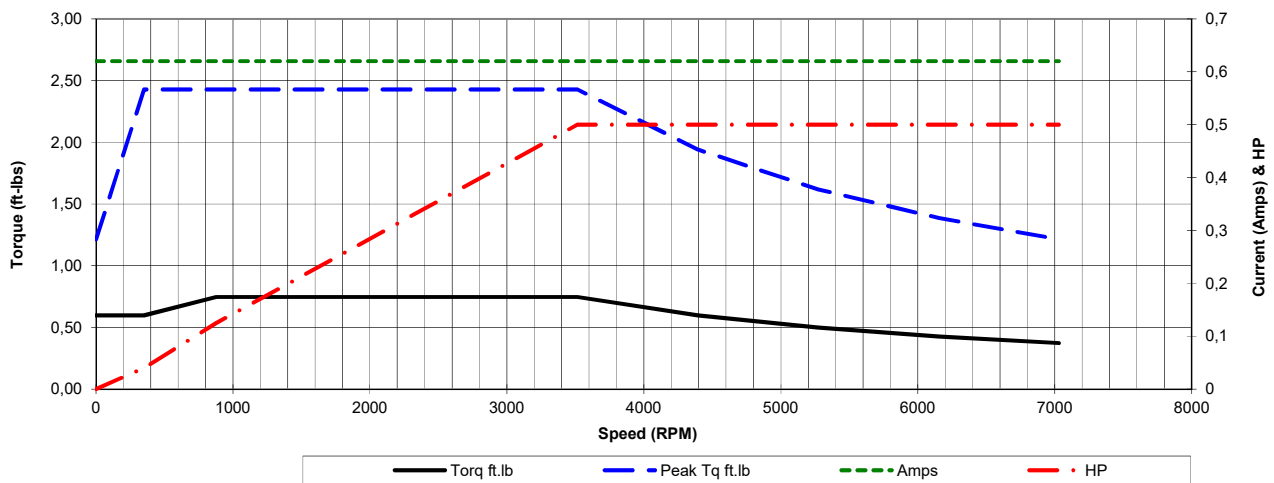
Meets or exceeds MEPS, as described by the US DOE in docket 10CFR431 and NRCan's Amendment 14

| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
|-----------------|--------------|---------|-----------|------------|-----------|--------------------------------------|---------|----------------|------------------|---------------|
| 0,5 | 575 | 3515 | TENV | 71 | 60 | B | 2 | K | F | 30 |
| | 0Hz | 6Hz | 15Hz | 30Hz | 45Hz | 60Hz | 75Hz | 90Hz | 105Hz | 120Hz |
| Amps | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 |
| RPM | 0 | 351,5 | 878,75 | 1757,5 | 2636,25 | 3515 | 4393,75 | 5272,5 | 6151,25 | 7030 |
| Torq ft.lb | 0,60 | 0,60 | 0,75 | 0,75 | 0,75 | 0,75 | 0,60 | 0,50 | 0,43 | 0,37 |
| Peak Tq ft.lb | 1,21 | 2,43 | 2,43 | 2,43 | 2,43 | 2,43 | 1,94 | 1,62 | 1,39 | 1,21 |
| HP | 0 | 0,0 | 0,1 | 0,3 | 0,4 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |
| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBa @ 1M |
| Speed (RPM) | 0,0 | 1512 | 2880 | 3515 | 3600 | Continuous | 1,15 | 40°C | 3,300 ft | / |
| Current (Amps) | 8,0 | 6,8 | 4,8 | 0,6 | 0,4 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 3,0 | 2,5 | 3,4 | 0,7 | 0,0 | C.T. | 10:1 | V.T. | 20:1 | |

Motor Speed Data



Motor Torque Capability vs RPM



Date: 2019-01-29
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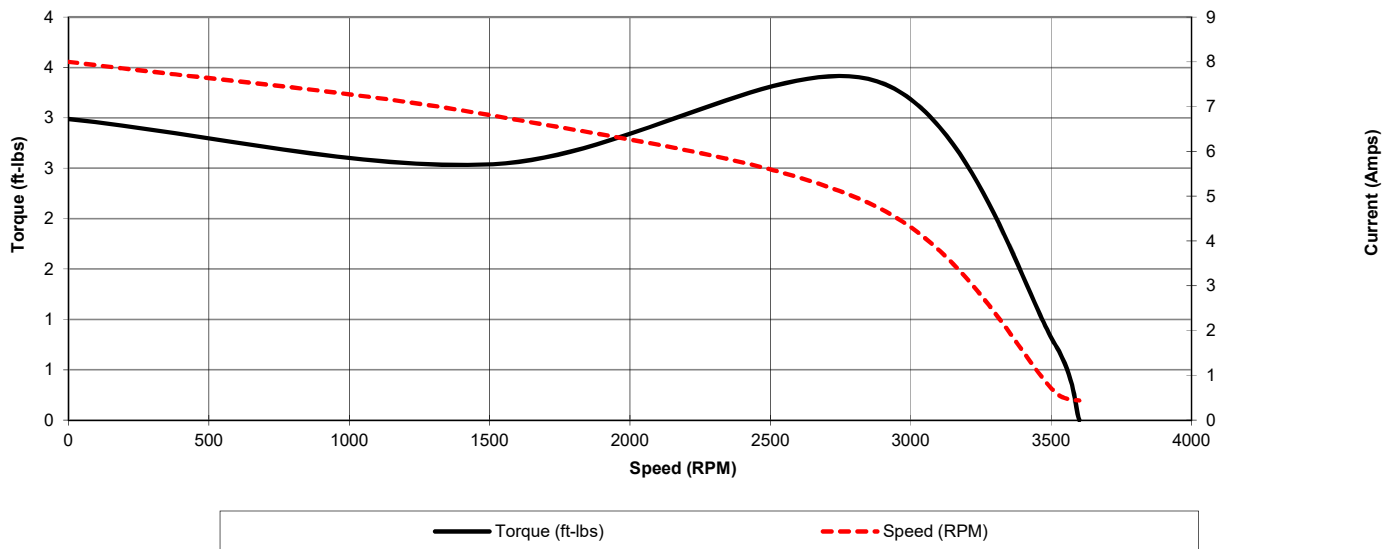
Meets or exceeds MEPS, as described by the US DOE in docket 10CFR431 and NRCAN's Amendment 14

| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
|-----|-----|------|-----------|-------|-----------|--------|-------|----------------|------------------|---------------|
| 0,5 | 575 | 3515 | TENV | 71 | 60 | B | 2 | K | F | 30 |

| Load % | 0% | 25% | 50% | 75% | 100% | 125% | 150% |
|-------------|------|---------|--------|---------|-------|---------|--------|
| Amps | 0,44 | 0,47 | 0,50 | 0,55 | 0,62 | 0,78 | 0,93 |
| Torq ft/lbs | 0 | 0,18 | 0,37 | 0,56 | 0,75 | 0,94 | 1,13 |
| RPM | 0 | 3578,75 | 3557,5 | 3536,25 | 3515 | 3493,75 | 3472,5 |
| Eff | 0 | 61,04 | 69,60 | 76,72 | 80,00 | 77,93 | 75,70 |
| PF | 0 | 32,7 | 49,476 | 64,22 | 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 | 3515 | 3600 | Continuous | 1,15 | 40°C | 3,300 ft | / |
| Current (Amps) | 8 | 6,8 | 4,8 | 0,62 | 0,4402 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 2,99 | 2,54 | 3,36 | 0,75 | 0,0 | C.T. | 10:1 | V.T. | 20:1 | |

Motor Speed Data



Motor Load Data

