



PERFORMANCE DATA SHEET

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

Catalogue #: **MPS-8014**

| HP | kW | Voltage | S.F. @ 60Hz | EFF. | P.F. | Frame | Design | L.R. Amps |
|------|------|---------|-------------|-------|-------|-------|--------|-----------|
| 0,75 | 0,56 | 575 | 1,15 | 79,0% | 0,795 | 80 | B | 8 |

| 60 Hz | | | | | | | | |
|-------|-----|-----|-----|-----|-------|-----|------|----------|
| FLA | | | | | | | Code | F.L. RPM |
| 208 | 230 | 416 | 460 | 480 | 575 | 600 | | |
| / | / | / | / | / | 0,896 | / | K | 1755 |

| 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 |
|----------|----|-------|--------------|------|-----------------|---------------|
| 38,5 | 3 | Cont. | F | 40°C | 1000M (3300 Ft) | 55 |

| % Efficiency | | % Power Factor | | Torque | | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|-----|-------------------|------------------------|
| Full Load: | 79,0% | Full Load: | 0,80 | Full Load Ft/Lbs | 2,2 | | |
| 3/4 Load: | 75,8% | 3/4 Load: | 0,67 | Locked Rotor % | 380 | / | 12 |
| 1/2 Load: | 68,7% | 1/2 Load: | 0,52 | Break Down % | 400 | | |

| 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 | | | | | | |
| 6204 | 6204 | 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) | 305 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

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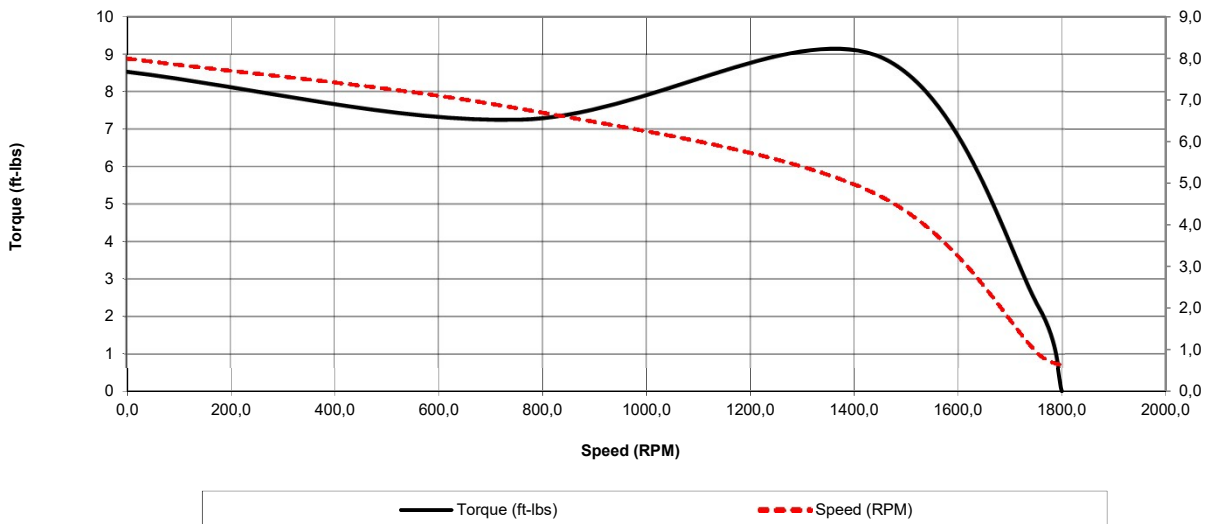
Meets or exceeds MEPS, as described by the US DOE in docket 10CFR431 and NRCan's Amendment 14

| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
|------|-----|------|-----------|-------|-----------|--------|-------|----------------|------------------|---------------|
| 0,75 | 575 | 1755 | TENV | 80 | 60 | B | 4 | K | F | 55 |

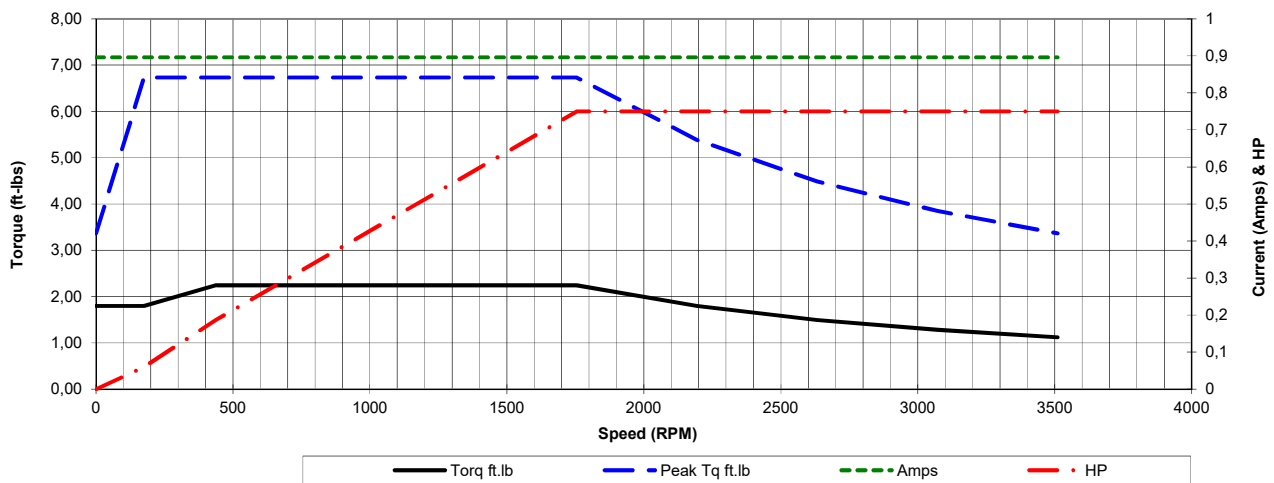
| | 0Hz | 6Hz | 15Hz | 30Hz | 45Hz | 60Hz | 75Hz | 90Hz | 105Hz | 120Hz |
|---------------|-------|-------|--------|-------|---------|-------|---------|--------|---------|-------|
| Amps | 0,896 | 0,896 | 0,896 | 0,896 | 0,896 | 0,896 | 0,896 | 0,896 | 0,896 | 0,896 |
| RPM | 0 | 175,5 | 438,75 | 877,5 | 1316,25 | 1755 | 2193,75 | 2632,5 | 3071,25 | 3510 |
| Torq ft.lb | 1,80 | 1,80 | 2,24 | 2,24 | 2,24 | 2,24 | 1,80 | 1,50 | 1,28 | 1,12 |
| Peak Tq ft.lb | 3,37 | 6,73 | 6,73 | 6,73 | 6,73 | 6,73 | 5,39 | 4,49 | 3,85 | 3,37 |
| 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 | 756 | 1440 | 1755 | 1800 | Continuous | 1,15 | 40°C | 3,300 ft | / |
| Current (Amps) | 8,0 | 6,8 | 4,8 | 0,9 | 0,6 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 8,5 | 7,2 | 9,0 | 2,2 | 0,0 | C.T. | 10:1 | V.T. | 20:1 | |

Motor Speed Data



Motor Torque Capability vs RPM



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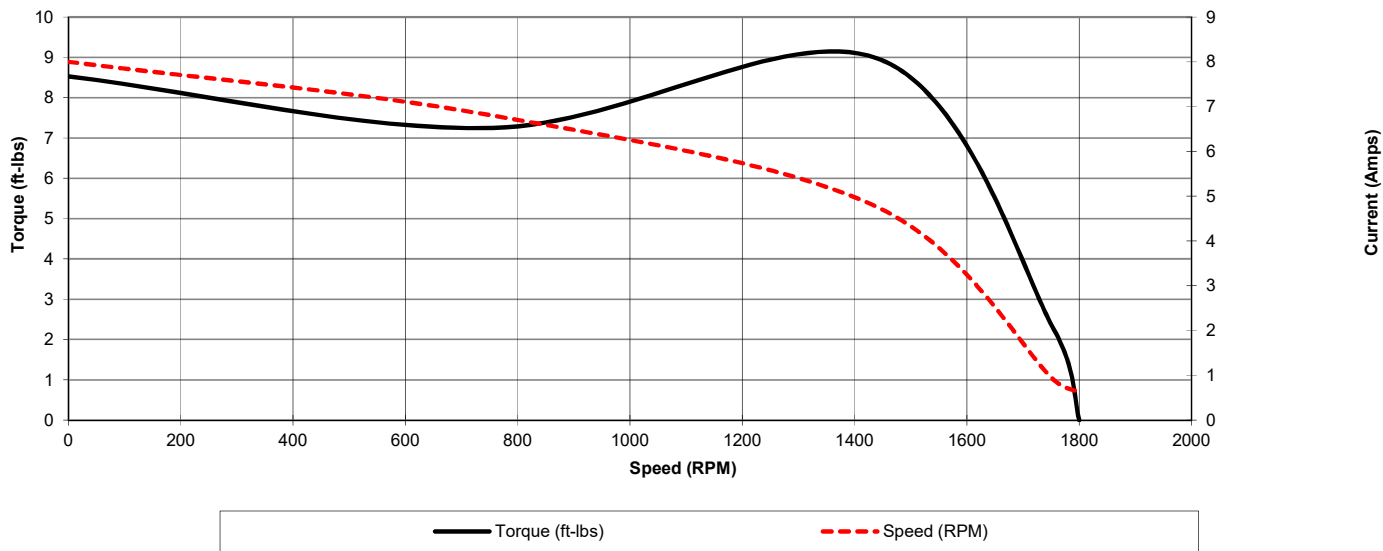
Meets or exceeds MEPS, as described by the US DOE in docket 10CFR431 and NRCAN's Amendment 14

| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
|------|-----|------|-----------|-------|-----------|--------|-------|----------------|------------------|---------------|
| 0,75 | 575 | 1755 | TENV | 80 | 60 | B | 4 | K | F | 55 |

| Load % | 0% | 25% | 50% | 75% | 100% | 125% | 150% |
|-------------|------|---------|---------|---------|-------|---------|--------|
| Amps | 0,64 | 0,68 | 0,73 | 0,79 | 0,90 | 1,12 | 1,34 |
| Torq ft/lbs | 0 | 0,55 | 1,11 | 1,67 | 2,24 | 2,82 | 3,41 |
| RPM | 0 | 1788,75 | 1777,5 | 1766,25 | 1755 | 1743,75 | 1732,5 |
| Eff | 0 | 60,28 | 68,73 | 75,76 | 79,00 | 77,32 | 75,11 |
| PF | 0 | 34,2 | 51,7545 | 67,1775 | 79,5 | 81,1 | 83,5 |

| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBa @ 1M |
|-----------------|--------------|---------|-----------|------------|---------|---|-------|---------|-----------|----------|
| Speed (RPM) | 0 | 756 | 1440 | 1755 | 1800 | Continuous | 1,15 | 40°C | 3,300 ft | / |
| Current (Amps) | 8 | 6,8 | 4,8 | 0,896 | 0,63616 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 8,53 | 7,25 | 8,98 | 2,24 | 0,0 | C.T. | 10:1 | V.T. | 20:1 | |

Motor Speed Data



Motor Load Data

