

PERFORMANCE DATA SHEET EPACT NR CAN NEMA 12 - 11

Catalogue #: **MPC-86W**

| HP | KW | Voltage | S.F. @ 60Hz | EFF. | P.F. | Frame | Design | L.R. Amps |
|-----|--------|---------|-------------|-------|------|-------|--------|-----------|
| 150 | 111,90 | 575 | 1,15 | 94,5% | 0,91 | 445TS | C | 868 |

| 60 Hz | | | | | | | | |
|-------|-----|-----|-----|-----|-------|-----|------|----------|
| FLA | | | | | | | Code | F.L. RPM |
| 208 | 230 | 416 | 460 | 480 | 575 | 600 | | |
| / | / | / | / | / | 129,6 | / | G | 3565 |

| 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 |
|----------|----|-------|--------------|------|-----------------|---------------|
| 1408 | 3 | Cont. | F | 40°C | 1000M (3300 Ft) | < 80 |

| % Efficiency | | % Power Factor | | Torque | | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|-------|-------------------|------------------------|
| Full Load: | 94,5% | Full Load: | 0,91 | Full Load Ft/Lbs | 220,5 | | |
| 3/4 Load: | 94,0% | 3/4 Load: | 0,93 | Locked Rotor % | 200 | 0 | 20 |
| 1/2 Load: | 93,3% | 1/2 Load: | 0,90 | Break Down % | 250 | | |

| 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 |
|--------------------------|-----------------------------|----------------|----------------|-----------------|------------------|-----------|-------------|----------------|
| 19,93 | 159,6 | Standard | Cast Iron | Standard | Standard | TEFC | IP55 | 4AWG |

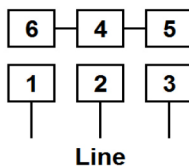
| Ball Bearings | | Grease | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|-------|----------------------|-------------|
| DE | ODE | | | | | | |
| 6314 | 6314 | Mobil PolyrexEm | Rigid | Horizontal | Blue | 92 | 104 |

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

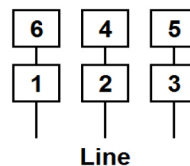
WIRING CONNECTION DIAGRAM : E

254T - 449T, Single Voltage, 6 Leads Connection
575 VAC 3 phase

WYE Start



DELTA Run

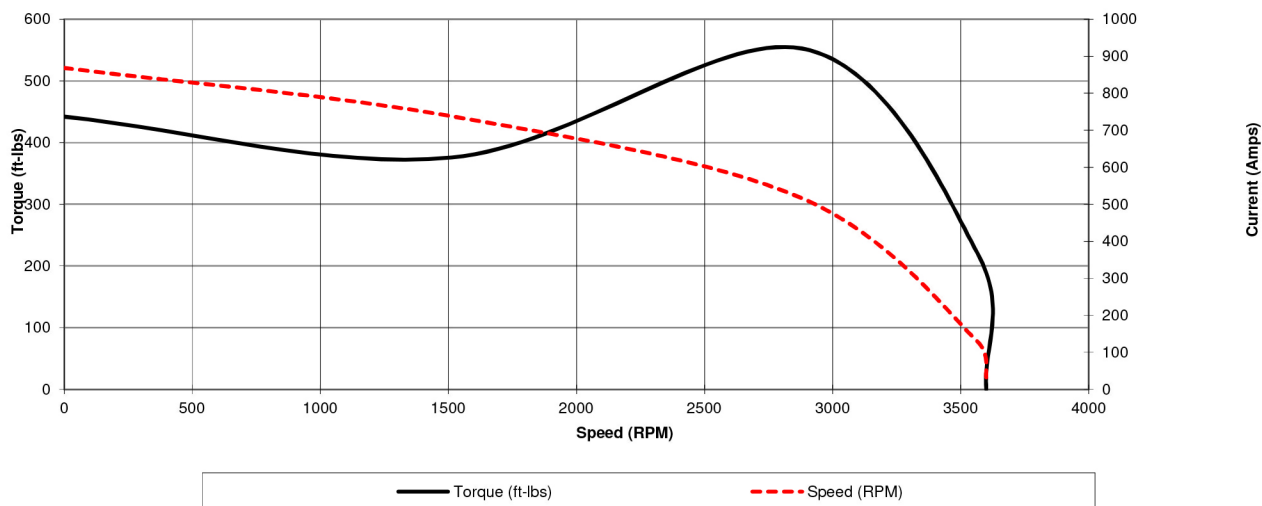


Date: 2018-07-06
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

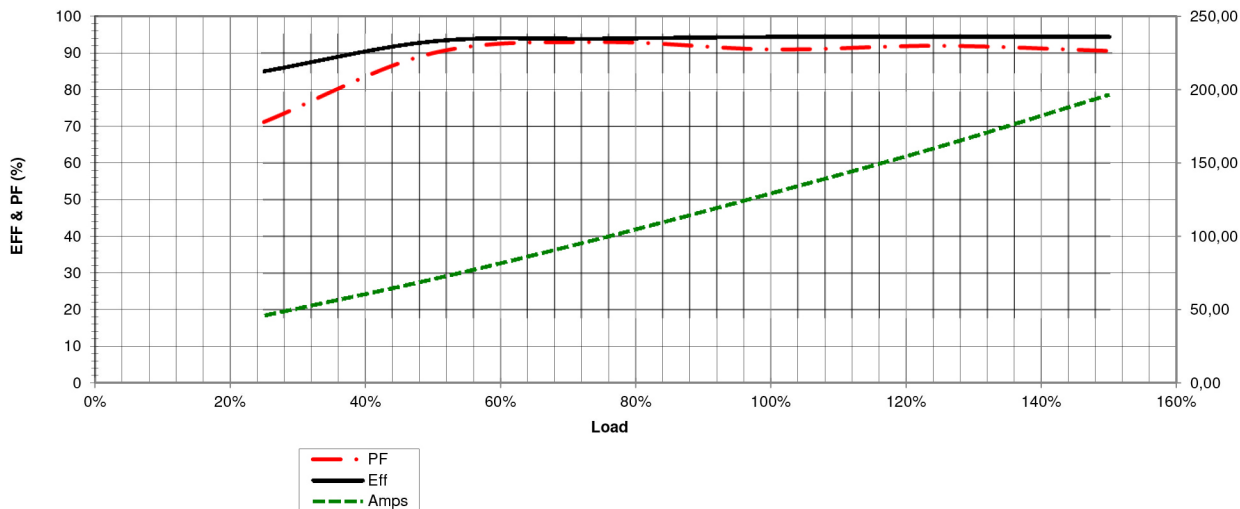
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|---------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|--------|----------------|------------------|---------------|
| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
| 150 | 575 | 3565 | TEFC | 445TS | 60 | C | 2 | G | F | < 80 |
| Load % | 0% | 25% | 50% | 75% | 100% | 125% | 150% | | | |
| Amps | 32,53 | 46,33 | 71,15 | 99,14 | 129,60 | 161,54 | 196,85 | | | |
| Torq ft/lbs | 0 | 54,84 | 109,95 | 165,33 | 220,98 | 276,91 | 333,11 | | | |
| RPM | 0 | 3591,25 | 3582,5 | 3573,75 | 3565 | 3556,25 | 3547,5 | | | |
| Eff | 0 | 85,15 | 93,30 | 94,00 | 94,50 | 94,50 | 94,50 | | | |
| PF | 0 | 71,2 | 90 | 93 | 91 | 92 | 90,6 | | | |
| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBa @ 1M |
| Speed (RPM) | 0 | 1512 | 2880 | 3565 | 3600 | Continuous | 1,15 | 40°C | 3,300 ft | 92 |
| Current (Amps) | 868 | 737,8 | 516,5 | 129,6 | 32,5296 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 441,96 | 375,67 | 552,45 | 220,98 | 0,0 | C.T. | 10:1 | V.T. | 20:1 | |

Motor Speed Data



Motor Load Data



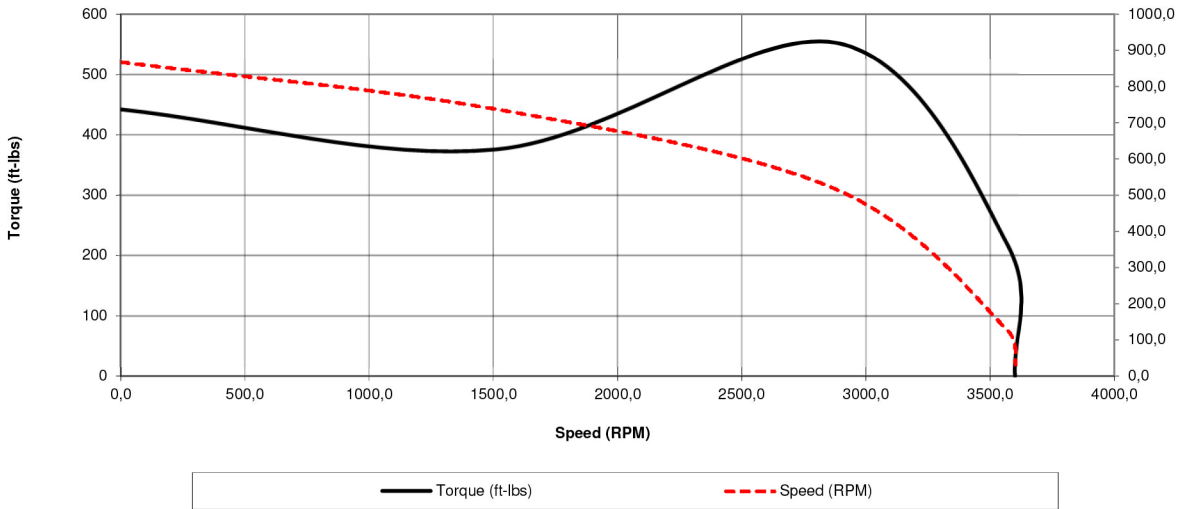
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| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
|-----------------|---------|-----------|------------|--------|-----------|--------------------------------------|---------|----------------|------------------|---------------|
| 150 | 575 | 3565 | TEFC | 445TS | 60 | C | 2 | G | F | < 80 |
| | 0Hz | 6Hz | 15Hz | 30Hz | 45Hz | 60Hz | 75Hz | 90Hz | 105Hz | 120Hz |
| Amps | 129,6 | 129,6 | 129,6 | 129,6 | 129,6 | 129,6 | 129,6 | 129,6 | 129,6 | 129,6 |
| RPM | 0 | 356,5 | 891,25 | 1782,5 | 2673,75 | 3565 | 4456,25 | 5347,5 | 6238,75 | 7130 |
| Torq ft.lb | 176,79 | 176,79 | 220,98 | 220,98 | 220,98 | 220,98 | 176,79 | 147,32 | 126,28 | 110,49 |
| Peak Tq ft.lb | 248,60 | 497,21 | 497,21 | 497,21 | 497,21 | 497,21 | 397,77 | 331,47 | 284,12 | 248,60 |
| HP | 0 | 12,0 | 37,5 | 75,0 | 112,5 | 150,0 | 150,0 | 150,0 | 150,0 | 150,0 |
| Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBA @ 1M | |
| Speed (RPM) | 0,0 | 1512 | 2880 | 3565 | 3600 | Continuous | 1,15 | 40°C | 3,300 ft | 92 |
| Current (Amps) | 868,0 | 737,8 | 516,5 | 129,6 | 32,5 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 442,0 | 375,7 | 552,5 | 221,0 | 0,0 | C.T. | 10:1 | V.T. | 20:1 | |

Motor Speed Data



Motor Torque Capability vs RPM

