

## PERFORMANCE DATA SHEET EPACT NR CAN NEMA 12 - 11

Catalogue #: **MPC-81W**

| HP  | kW    | Voltage | S.F. @ 60Hz | EFF.  | P.F. | Frame | Design | L.R. Amps |
|-----|-------|---------|-------------|-------|------|-------|--------|-----------|
| 125 | 93,25 | 575     | 1,15        | 94,5% | 0,91 | 444TS | C      | 726       |

| 60 Hz |     |     |     |     |     |     |      |          |
|-------|-----|-----|-----|-----|-----|-----|------|----------|
| FLA   |     |     |     |     |     |     | Code | F.L. RPM |
| 208   | 230 | 416 | 460 | 480 | 575 | 600 |      |          |
| /     | /   | /   | /   | /   | 108 | /   | G    | 3570     |

| 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 |
|----------|----|-------|--------------|------|-----------------|---------------|
| 1247     | 3  | Cont. | F            | 40°C | 1000M (3300 Ft) | < 80          |

| % Efficiency |       | % Power Factor |      | Torque           |       |                   |                        |
|--------------|-------|----------------|------|------------------|-------|-------------------|------------------------|
| Full Load:   | 94,5% | Full Load:     | 0,91 | Full Load Ft/Lbs | 183,8 | Winding Resist. Ω | Safe Cold Start (Secs) |
| 3/4 Load:    | 94,0% | 3/4 Load:      | 0,93 | Locked Rotor %   | 210   |                   |                        |
| 1/2 Load:    | 93,2% | 1/2 Load:      | 0,90 | Break Down %     | 280   | 0                 | 20                     |

| 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 |
|--------------------------|-----------------------------|----------------|----------------|-----------------|------------------|-----------|-------------|----------------|
| 16,14                    | 135,6                       | Standard       | Cast Iron      | Standard        | Standard         | TEFC      | IP55        | 5AWG           |

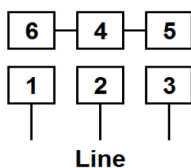
| Ball Bearings |      | Grease          | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|-------|----------------------|-------------|
| DE            | ODE  |                 |            |             | 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

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

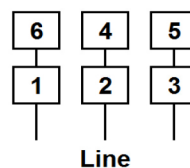
### WIRING CONNECTION DIAGRAM : E

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

Catalogue #: MPC-81W

| EPACT NR CAN NEMA 12 - 11 |     |      |           |       |           |        |       |                |                  |               |
|---------------------------|-----|------|-----------|-------|-----------|--------|-------|----------------|------------------|---------------|
| HP                        | VAC | RPM  | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
| 125                       | 575 | 3570 | TEFC      | 444TS | 60        | C      | 2     | G              | F                | < 80          |

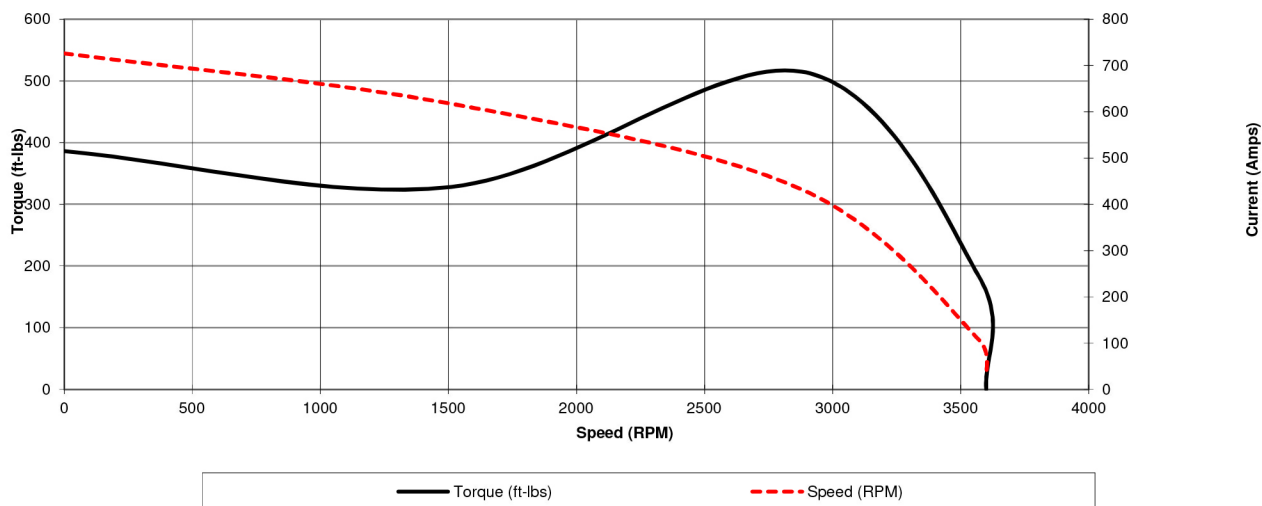
  

| Load %      | 0%    | 25%    | 50%   | 75%    | 100%   | 125%   | 150%   |
|-------------|-------|--------|-------|--------|--------|--------|--------|
| Amps        | 27,11 | 38,61  | 59,29 | 82,62  | 108,00 | 134,62 | 164,04 |
| Torq ft/lbs | 0     | 45,69  | 91,56 | 137,63 | 183,89 | 230,35 | 277,00 |
| RPM         | 0     | 3592,5 | 3585  | 3577,5 | 3570   | 3562,5 | 3555   |
| Eff         | 0     | 85,15  | 93,20 | 94,00  | 94,50  | 94,50  | 94,50  |
| PF          | 0     | 71,2   | 90    | 93     | 91     | 92     | 90,6   |

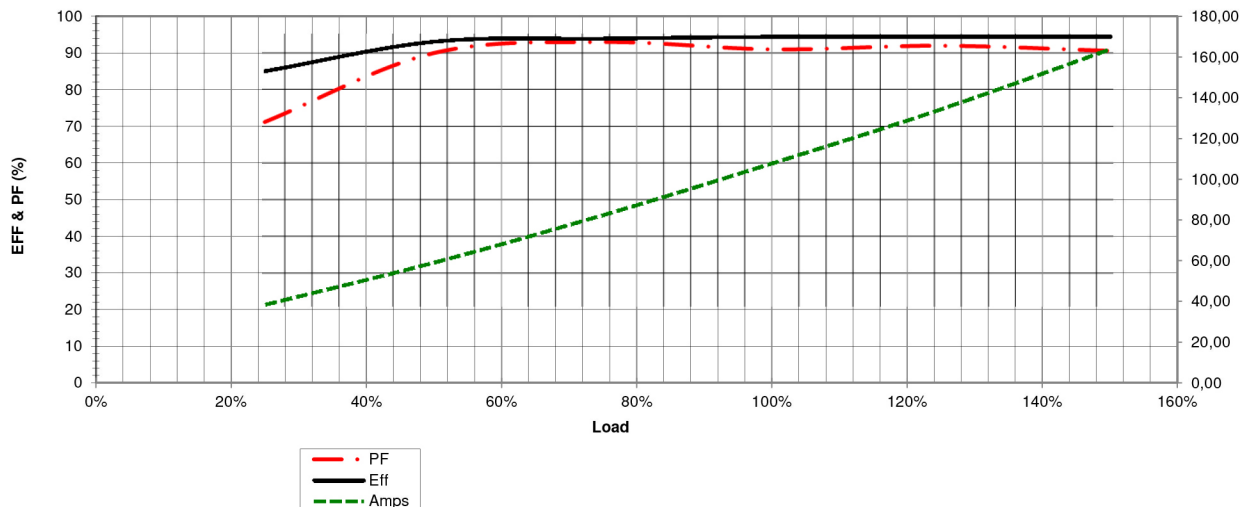
  

|                 | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle   | Duty                                 | S. F. | Ambient | Elevation | dBA @ 1M |
|-----------------|--------------|---------|-----------|------------|--------|--------------------------------------|-------|---------|-----------|----------|
| Speed (RPM)     | 0            | 1512    | 2880      | 3570       | 3600   | Continuous                           | 1,15  | 40°C    | 3,300 ft  | 92       |
| Current (Amps)  | 726          | 617,1   | 432,0     | 108        | 27,108 | VFD Rating: Meets MG1 parts 31.4.4.2 |       |         |           |          |
| Torque (ft-lbs) | 386,18       | 328,25  | 514,90    | 183,89     | 0,0    | C.T.                                 | 10:1  | V.T.    | 20:1      |          |

Motor Speed Data



Motor Load Data



Date: 2018-07-06  
 Customer:   
 Contact:   
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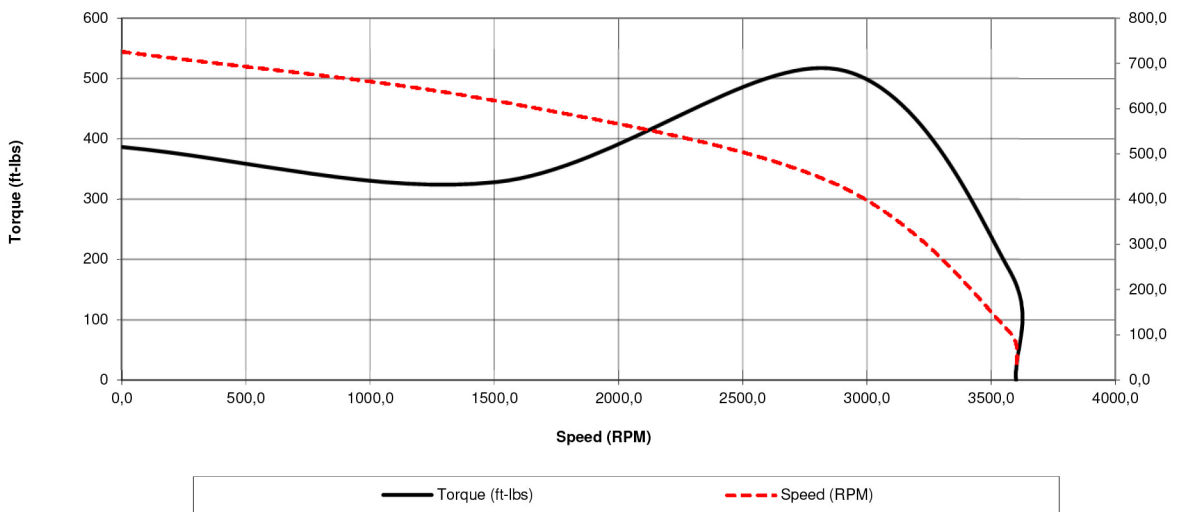
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| HP  | VAC | RPM  | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
|-----|-----|------|-----------|-------|-----------|--------|-------|----------------|------------------|---------------|
| 125 | 575 | 3570 | TEFC      | 444TS | 60        | C      | 2     | G              | F                | < 80          |

|               | 0Hz    | 6Hz    | 15Hz   | 30Hz   | 45Hz   | 60Hz   | 75Hz   | 90Hz   | 105Hz  | 120Hz  |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Amps          | 108    | 108    | 108    | 108    | 108    | 108    | 108    | 108    | 108    | 108    |
| RPM           | 0      | 357    | 892,5  | 1785   | 2677,5 | 3570   | 4462,5 | 5355   | 6247,5 | 7140   |
| Torq ft.lb    | 147,11 | 147,11 | 183,89 | 183,89 | 183,89 | 183,89 | 147,11 | 122,60 | 105,08 | 91,95  |
| Peak Tq ft.lb | 220,67 | 441,34 | 441,34 | 441,34 | 441,34 | 441,34 | 353,08 | 294,23 | 252,20 | 220,67 |
| HP            | 0      | 10,0   | 31,3   | 62,5   | 93,8   | 125,0  | 125,0  | 125,0  | 125,0  | 125,0  |

|                 | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty                                 | S. F. | Ambient | Elevation | dBA @ 1M |
|-----------------|--------------|---------|-----------|------------|------|--------------------------------------|-------|---------|-----------|----------|
| Speed (RPM)     | 0,0          | 1512    | 2880      | 3570       | 3600 | Continuous                           | 1,15  | 40°C    | 3,300 ft  | 92       |
| Current (Amps)  | 726,0        | 617,1   | 432,0     | 108,0      | 27,1 | VFD Rating: Meets MG1 parts 31.4.4.2 |       |         |           |          |
| Torque (ft-lbs) | 386,2        | 328,3   | 514,9     | 183,9      | 0,0  | C.T.                                 | 10:1  | V.T.    | 20:1      |          |

Motor Speed Data



Motor Torque Capability vs RPM

