



**PERFORMANCE DATA SHEET  
NEMA PREMIUM NR CAN NEMA 12 - 12**

Catalogue #: **MPSP-106TL**

| HP | kW   | Voltage | S.F. @ 60Hz | Efficiency | Power Factor | Frame | Design | L.R. Amps |
|----|------|---------|-------------|------------|--------------|-------|--------|-----------|
| 1  | 0,75 | 575     | 1,15        | 82,5%      | 0,649        | 143TC | B      | 12        |

| 60 Hz |     |     |     |     |     |     |      |          |
|-------|-----|-----|-----|-----|-----|-----|------|----------|
| FLA   |     |     |     |     |     |     | Code | F.L. RPM |
| 208   | 230 | 416 | 460 | 480 | 575 | 600 |      |          |
| /     | /   | /   | /   | /   | 1,4 | /   | K    | 1165     |

| 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 |
|----------|----|-------|--------------|------|-----------------|---------------|
| 42       | 3  | Cont. | F            | 40°C | 1000M (3300 Ft) | < 80          |

| % Efficiency |       | % Power Factor |      | Torque           |     |                   |                        |
|--------------|-------|----------------|------|------------------|-----|-------------------|------------------------|
| Full Load:   | 82,5% | Full Load:     | 0,65 | Full Load Ft/Lbs | 4,5 | Winding Resist. Ω | Safe Cold Start (Secs) |
| 3/4 Load:    | 82,0% | 3/4 Load:      | 0,60 | Locked Rotor %   | 260 |                   |                        |
| 1/2 Load:    | 80,0% | 1/2 Load:      | 0,47 | Break Down %     | 330 | 0                 | 12                     |

| 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 |
|--------------------------|-----------------------------|----------------|-----------------|-----------------|------------------|-----------|-------------|----------------|
| 0,04                     | 23                          | 304SS          | Stainless Steel |                 |                  | TEFC      | IP69K       | 16AWG          |

| Ball Bearings |      | Grease          | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|-------|----------------------|-------------|
| DE            | ODE  |                 |            |             |       |                      |             |
| 6205          | 6205 | Sealed Bearings | Foot       | Horizontal  | -     | 55                   | 64          |

| Inverter Duty.<br>Motor meets MG1 parts 31.4.4.2 | Constant Torque Range | Variable Torque Range | Constant HP RPM |
|--------------------------------------------------|-----------------------|-----------------------|-----------------|
|                                                  | 10:1                  | 20:1                  | 1800            |

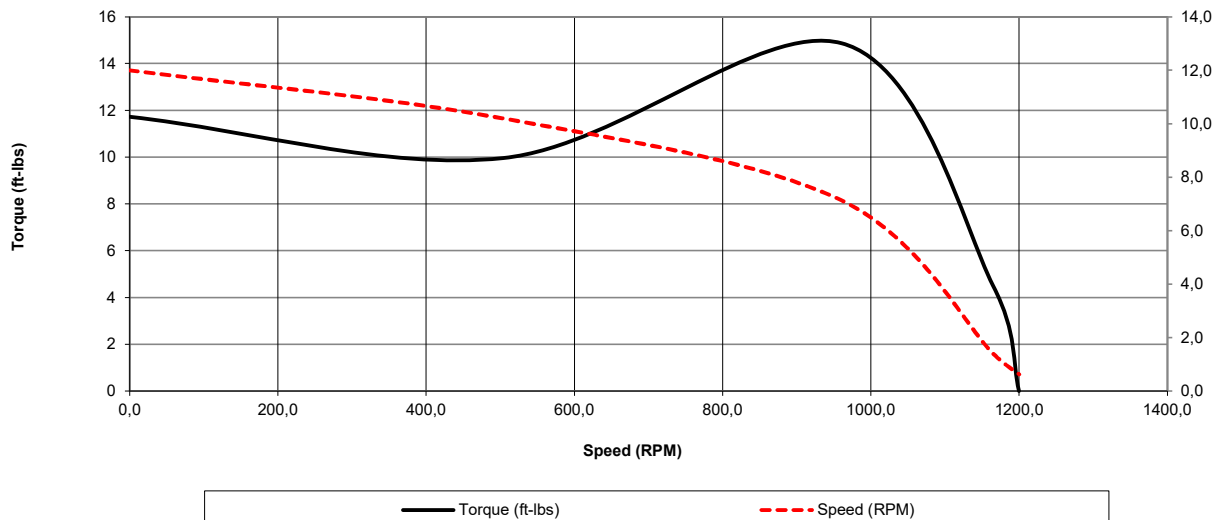
| WIRING CONNECTION DIAGRAM : D                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p align="center">143T - 215T, Single Voltage, DOL, 3 Leads WYE Connection<br/>575 VAC 3 phase</p> <div align="center"> <div>1</div> <div>2</div> <div>3</div> <div>Line</div> </div> |

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

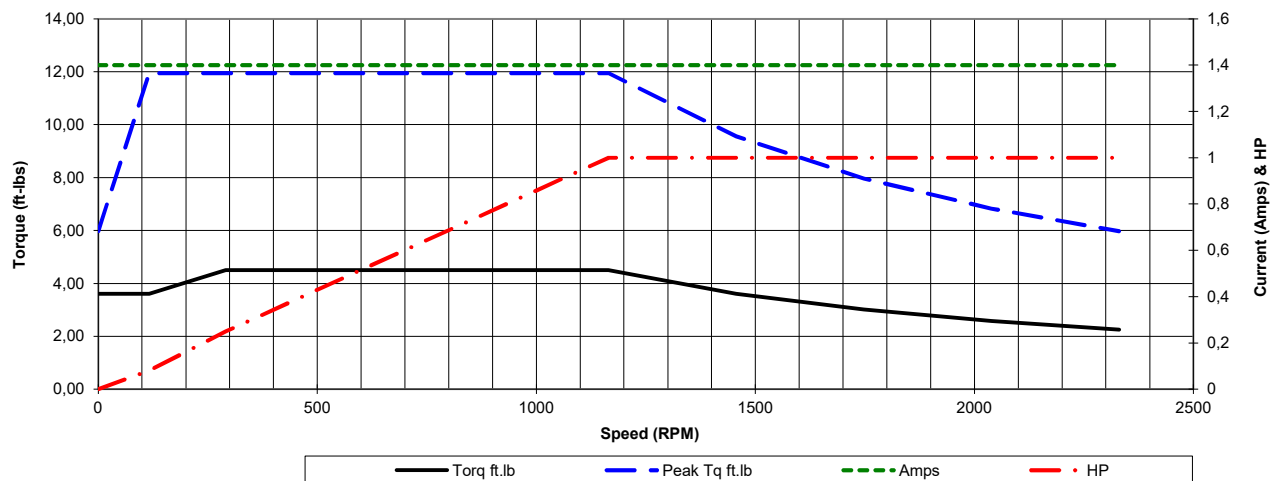
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| NEMA PREMIUM NR CAN NEMA 12 - 12 |              |         |           |            |           |                                      |         |                |                  |               |
|----------------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|---------|----------------|------------------|---------------|
| HP                               | VAC          | RPM     | Enclosure | Frame      | Frequency | Design                               | Poles   | LR Code Letter | Insulation Class | Temp. Rise °C |
| 1                                | 575          | 1165    | TEFC      | 143TC      | 60        | B                                    | 6       | K              | F                | < 80          |
|                                  | 0Hz          | 6Hz     | 15Hz      | 30Hz       | 45Hz      | 60Hz                                 | 75Hz    | 90Hz           | 105Hz            | 120Hz         |
| Amps                             | 1,4          | 1,4     | 1,4       | 1,4        | 1,4       | 1,4                                  | 1,4     | 1,4            | 1,4              | 1,4           |
| RPM                              | 0            | 116,5   | 291,25    | 582,5      | 873,75    | 1165                                 | 1456,25 | 1747,5         | 2038,75          | 2330          |
| Torq ft.lb                       | 3,61         | 3,61    | 4,51      | 4,51       | 4,51      | 4,51                                 | 3,61    | 3,01           | 2,58             | 2,25          |
| Peak Tq ft.lb                    | 5,97         | 11,95   | 11,95     | 11,95      | 11,95     | 11,95                                | 9,56    | 7,96           | 6,83             | 5,97          |
| HP                               | 0            | 0,1     | 0,3       | 0,5        | 0,8       | 1,0                                  | 1,0     | 1,0            | 1,0              | 1,0           |
|                                  | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle      | Duty                                 | S. F.   | Ambient        | Elevation        | dBA @ 1M      |
| Speed (RPM)                      | 0,0          | 504     | 960       | 1165       | 1200      | Continuous                           | 1,15    | 40°C           | 3,300 ft         | 55            |
| Current (Amps)                   | 12,0         | 10,2    | 7,1       | 1,4        | 0,6       | VFD Rating: Meets MG1 parts 31.4.4.2 |         |                |                  |               |
| Torque (ft-lbs)                  | 11,7         | 10,0    | 14,9      | 4,5        | 0,0       | CT                                   | 10:1    | VT             | 20:1             |               |

Motor Speed Data



Motor Torque Capability vs RPM



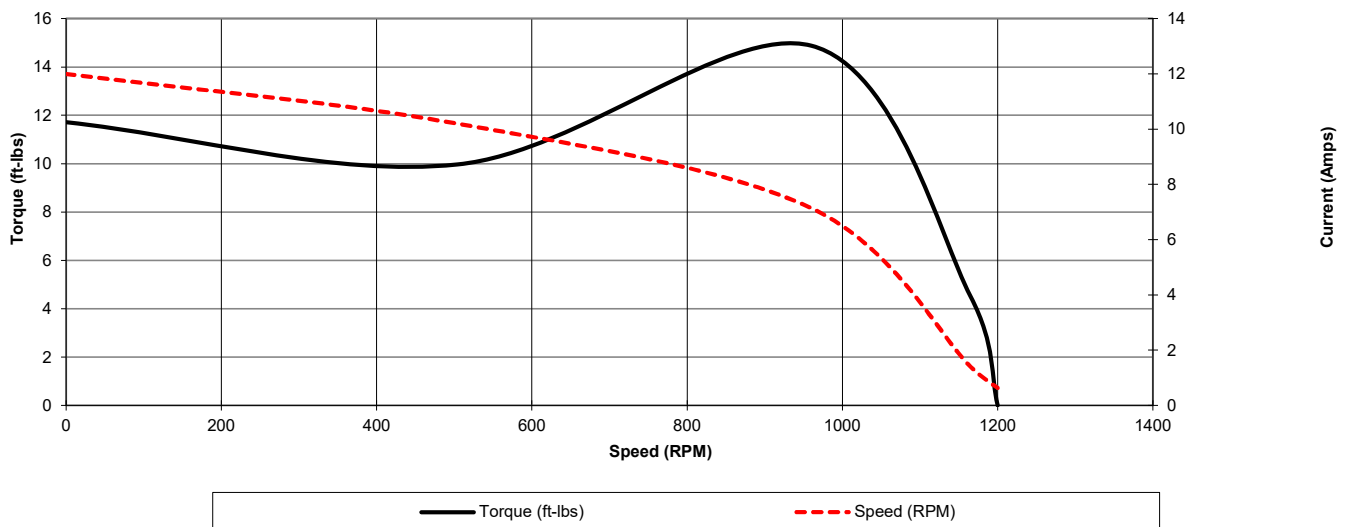
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## NEMA PREMIUM NR CAN NEMA 12 - 12

| HP              | VAC     | RPM       | Enclosure  | Frame   | Frequency | Design                               | Poles   | LR Code Letter | Insulation Class | Temp. Rise °C |
|-----------------|---------|-----------|------------|---------|-----------|--------------------------------------|---------|----------------|------------------|---------------|
| 1               | 575     | 1165      | TEFC       | 143TC   | 60        | B                                    | 6       | K              | F                | < 80          |
| Load %          | 0%      | 25%       | 50%        | 75%     | 100%      | 125%                                 | 150%    |                |                  |               |
| Amps            | 0,63    | 0,65      | 0,85       | 1,10    | 1,40      | 1,72                                 | 2,05    |                |                  |               |
| Torq ft/lbs     | 0       | 1,10      | 2,22       | 3,36    | 4,51      | 5,68                                 | 6,87    |                |                  |               |
| RPM             | 0       | 1191,25   | 1182,5     | 1173,75 | 1165      | 1156,25                              | 1147,5  |                |                  |               |
| Eff             | 0       | 67,20     | 80,00      | 82,00   | 82,50     | 82,50                                | 82,50   |                |                  |               |
| PF              | 0       | 27,9      | 47         | 60      | 64,9      | 66,2                                 | 66,5    |                |                  |               |
| Locked Rotor    | Pull-Up | Breakdown | Rated Load | Idle    | Duty      | S. F.                                | Ambient | Elevation      | dBA @ 1M         |               |
| Speed (RPM)     | 0       | 504       | 960        | 1165    | 1200      | Continuous                           | 1,15    | 40°C           | 3,300 ft         | 55            |
| Current (Amps)  | 12      | 10,2      | 7,1        | 1,4     | 0,63      | VFD Rating: Meets MG1 parts 31.4.4.2 |         |                |                  |               |
| Torque (ft-lbs) | 11,72   | 9,96      | 14,88      | 4,51    | 0,0       | CT                                   | 10:1    | VT             | 20:1             |               |

Motor Speed Data



Motor Load Data

