



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

Catalogue #: **MPSP-302TL**

| HP | kW   | Voltage | S.F. @ 60Hz | Efficiency | Power Factor | Frame | Design | L.R. Amps |
|----|------|---------|-------------|------------|--------------|-------|--------|-----------|
| 3  | 2,24 | 575     | 1,15        | 86,5%      | 0,802        | 182TC | B      | 26        |

| 60 Hz |     |     |     |     |      |     |      |          |
|-------|-----|-----|-----|-----|------|-----|------|----------|
| FLA   |     |     |     |     |      |     | Code | F.L. RPM |
| 208   | 230 | 416 | 460 | 480 | 575  | 600 |      |          |
| /     | /   | /   | /   | /   | 3,24 | /   | K    | 3535     |

| 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 |
|----------|----|-------|--------------|------|-----------------|---------------|
| 81       | 3  | Cont. | F            | 40°C | 1000M (3300 Ft) | 32            |

| % Efficiency |       | % Power Factor |      | Torque           |     |                   |                        |
|--------------|-------|----------------|------|------------------|-----|-------------------|------------------------|
| Full Load:   | 86,5% | Full Load:     | 0,80 | Full Load Ft/Lbs | 4,5 | Winding Resist. Ω | Safe Cold Start (Secs) |
| 3/4 Load:    | 87,1% | 3/4 Load:      | 0,79 | Locked Rotor %   | 200 |                   |                        |
| 1/2 Load:    | 84,2% | 1/2 Load:      | 0,67 | Break Down %     | 330 | 5,9               | 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 |
|--------------------------|-----------------------------|----------------|-----------------|-----------------|------------------|-----------|-------------|----------------|
| 0,14                     | 5,2                         | 304SS          | Stainless Steel |                 |                  | TEFC      | IP69K       | 14 AWG         |

| Ball Bearings |      | Grease          | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|-------|----------------------|-------------|
| DE            | ODE  |                 |            |             |       |                      |             |
| 6308          | 6306 | Sealed Bearings | Foot       | Horizontal  | -     | 78                   | 88          |

| 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            |

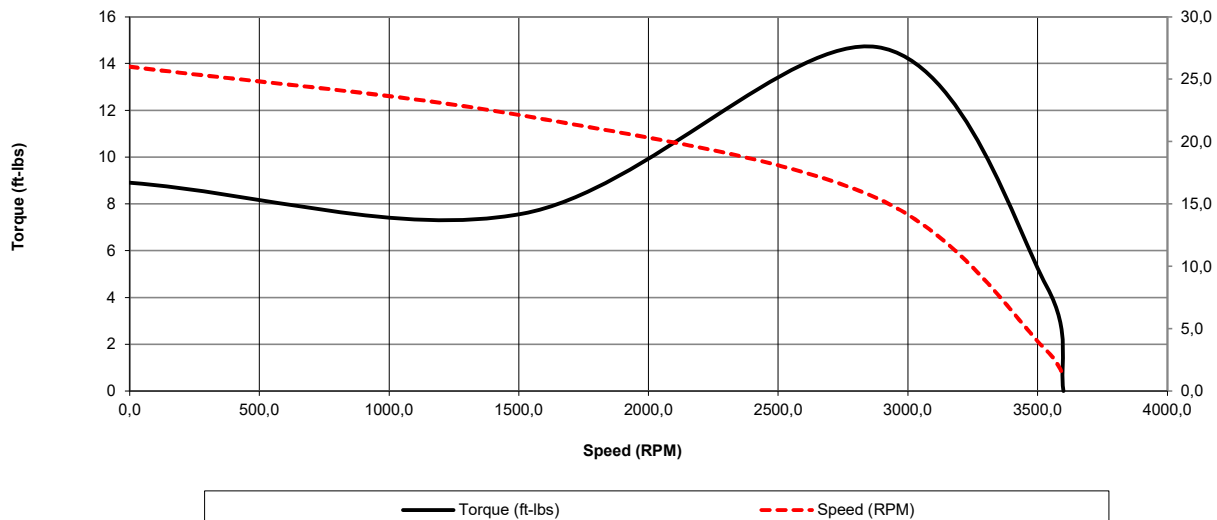
| WIRING CONNECTION DIAGRAM : D                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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

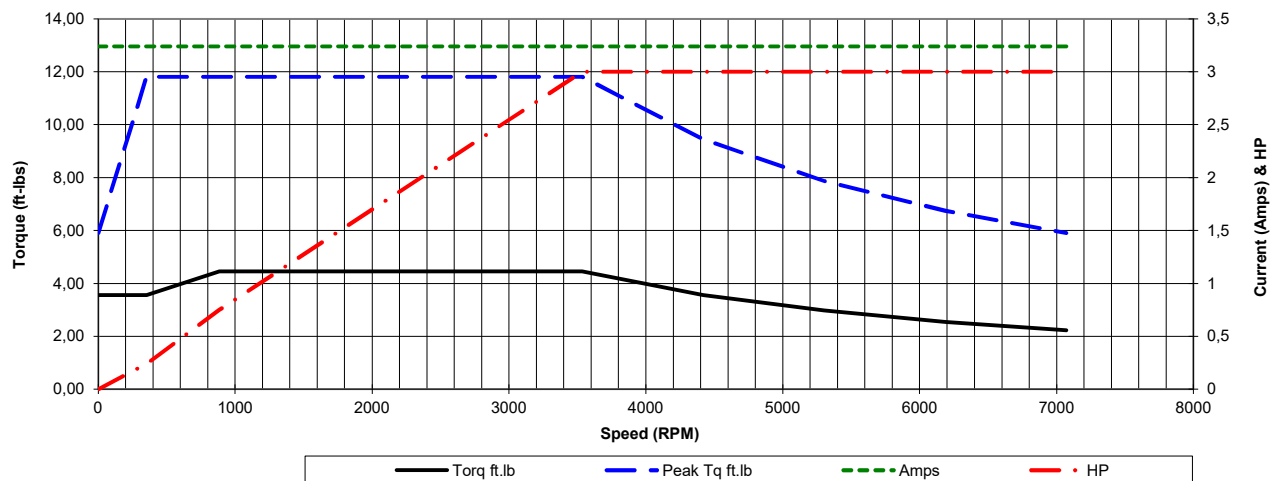
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| NEMA PREMIUM NR CAN NEMA 12 - 12 |              |         |           |            |           |                                      |         |                |                  |               |
|----------------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|---------|----------------|------------------|---------------|
| HP                               | VAC          | RPM     | Enclosure | Frame      | Frequency | Design                               | Poles   | LR Code Letter | Insulation Class | Temp. Rise °C |
| 3                                | 575          | 3535    | TEFC      | 182TC      | 60        | B                                    | 2       | K              | F                | 32            |
|                                  | 0Hz          | 6Hz     | 15Hz      | 30Hz       | 45Hz      | 60Hz                                 | 75Hz    | 90Hz           | 105Hz            | 120Hz         |
| Amps                             | 3,24         | 3,24    | 3,24      | 3,24       | 3,24      | 3,24                                 | 3,24    | 3,24           | 3,24             | 3,24          |
| RPM                              | 0            | 353,5   | 883,75    | 1767,5     | 2651,25   | 3535                                 | 4418,75 | 5302,5         | 6186,25          | 7070          |
| Torq ft.lb                       | 3,57         | 3,57    | 4,46      | 4,46       | 4,46      | 4,46                                 | 3,57    | 2,97           | 2,55             | 2,23          |
| Peak Tq ft.lb                    | 5,91         | 11,81   | 11,81     | 11,81      | 11,81     | 11,81                                | 9,45    | 7,87           | 6,75             | 5,91          |
| HP                               | 0            | 0,2     | 0,8       | 1,5        | 2,3       | 3,0                                  | 3,0     | 3,0            | 3,0              | 3,0           |
|                                  | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle      | Duty                                 | S. F.   | Ambient        | Elevation        | dBA @ 1M      |
| Speed (RPM)                      | 0,0          | 1512    | 2880      | 3535       | 3600      | Continuous                           | 1,15    | 40°C           | 3,300 ft         | 78            |
| Current (Amps)                   | 26,0         | 22,1    | 15,5      | 3,2        | 1,2       | VFD Rating: Meets MG1 parts 31.4.4.2 |         |                |                  |               |
| Torque (ft-lbs)                  | 8,9          | 7,6     | 14,7      | 4,5        | 0,0       | CT                                   | 10:1    | VT             | 20:1             |               |

Motor Speed Data



Motor Torque Capability vs RPM



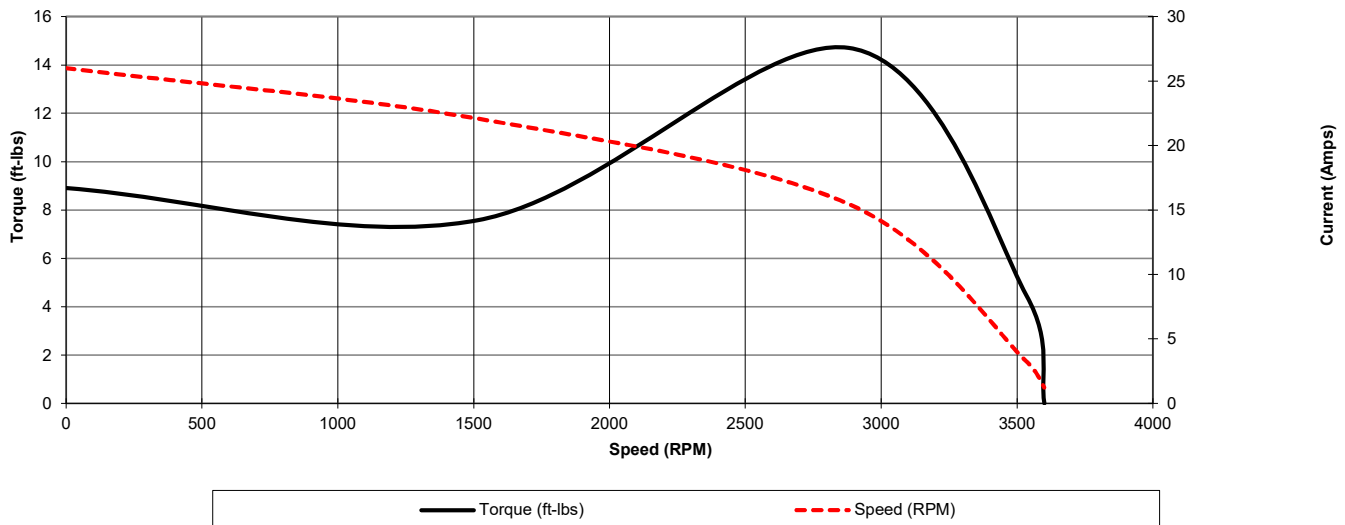
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## NEMA PREMIUM NR CAN NEMA 12 - 12

| HP              | VAC          | RPM     | Enclosure | Frame      | Frequency | Design                               | Poles  | LR Code Letter | Insulation Class | Temp. Rise °C |
|-----------------|--------------|---------|-----------|------------|-----------|--------------------------------------|--------|----------------|------------------|---------------|
| 3               | 575          | 3535    | TEFC      | 182TC      | 60        | B                                    | 2      | K              | F                | 32            |
| Load %          | 0%           | 25%     | 50%       | 75%        | 100%      | 125%                                 | 150%   |                |                  |               |
| Amps            | 1,23         | 1,38    | 1,92      | 2,53       | 3,24      | 3,97                                 | 4,74   |                |                  |               |
| Torq ft/lbs     | 0            | 1,10    | 2,21      | 3,33       | 4,46      | 5,60                                 | 6,75   |                |                  |               |
| RPM             | 0            | 3583,75 | 3567,5    | 3551,25    | 3535      | 3518,75                              | 3502,5 |                |                  |               |
| Eff             | 0            | 70,73   | 84,20     | 87,10      | 86,50     | 86,50                                | 86,50  |                |                  |               |
| PF              | 0            | 52,1    | 67,1      | 78,5       | 80,2      | 81,8                                 | 82,2   |                |                  |               |
|                 | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle      | Duty                                 | S. F.  | Ambient        | Elevation        | dBA @ 1M      |
| Speed (RPM)     | 0            | 1512    | 2880      | 3535       | 3600      | Continuous                           | 1,15   | 40°C           | 3,300 ft         | 78            |
| Current (Amps)  | 26           | 22,1    | 15,5      | 3,24       | 1,2312    | VFD Rating: Meets MG1 parts 31.4.4.2 |        |                |                  |               |
| Torque (ft-lbs) | 8,91         | 7,58    | 14,71     | 4,46       | 0,0       | CT                                   | 10:1   | VT             | 20:1             |               |

Motor Speed Data



Motor Load Data

