



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

Catalogue #: MQSP-306TL

| HP | kW | Voltage | S.F. @ 60Hz | Efficiency | Power Factor | Frame | Design | L.R. Amps |
|----|------|---------|-------------|------------|--------------|-------|--------|-----------|
| 3 | 2,24 | 230/460 | 1,15 | 89,5% | 0,730 | 213TC | B | 32 |

| 60 Hz | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|------|----------|
| FLA | | | | | | | Code | F.L. RPM |
| 208 | 230 | 416 | 460 | 480 | 575 | 600 | | |
| / | 8,6 | / | 4,3 | / | / | / | K | 1175 |

| 50 Hz | | | | | | | | |
|-------|-----|-----|-------------|------------|--------------|------|----------|--|
| FLA | | | S.F. @ 50Hz | Efficiency | Power Factor | Code | F.L. RPM | |
| 190 | 380 | 415 | | | | | | |
| 10,4 | 5,2 | / | 1,00 | 87,5% | 0,75 | K | 960 | |

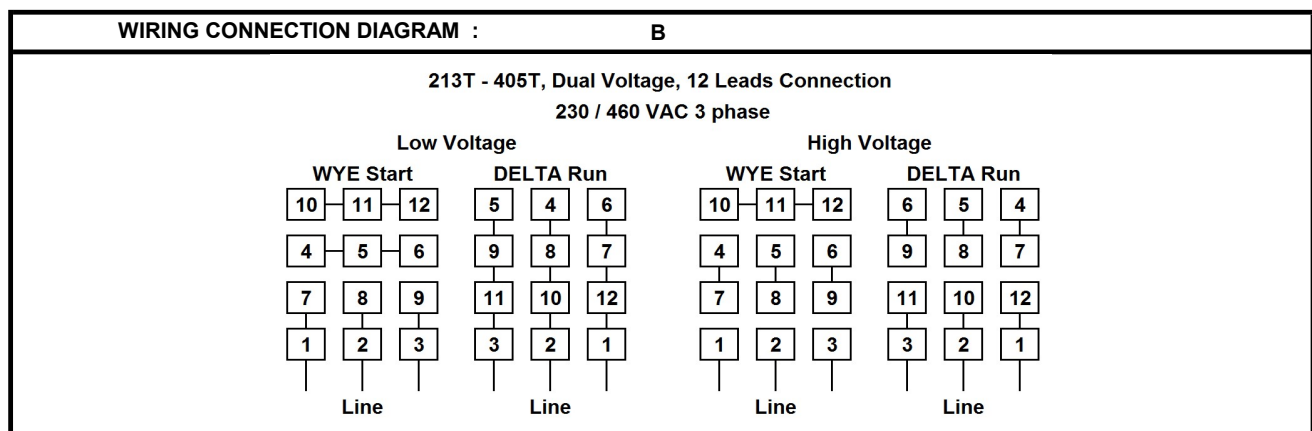
| Wgt. Lbs | PH | Duty | Insul. Class | Amb. | Elevation | Temp. Rise° C |
|----------|----|-------|--------------|------|-----------------|---------------|
| 110 | 3 | Cont. | F | 40°C | 1000M (3300 Ft) | < 80 |

| % Efficiency | | % Power Factor | | Torque | | Winding Resist. Ω | Safe Cold Start (Secs) |
|--------------|-------|----------------|------|------------------|------|-------------------|------------------------|
| Full Load: | 89,5% | Full Load: | 0,73 | Full Load Ft/Lbs | 13,4 | | |
| 3/4 Load: | 89,2% | 3/4 Load: | 0,67 | Locked Rotor % | 200 | | |
| 1/2 Load: | 87,7% | 1/2 Load: | 0,54 | Break Down % | 300 | 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 |
|--------------------------|-----------------------------|----------------|-----------------|-----------------|------------------|-----------|-------------|----------------|
| 0,71 | 66 | 304SS | Stainless Steel | | | TEFC | IP69K | 14 AWG |

| Ball Bearings | | Grease | Mount Type | Orientation | Paint | Sound Pressure @ 3FT | Sound Power |
|---------------|------|-----------------|------------|-------------|-------|----------------------|-------------|
| DE | ODE | | | | | | |
| 6308 | 6208 | Sealed Bearings | Foot | Horizontal | - | 61 | 71 |

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

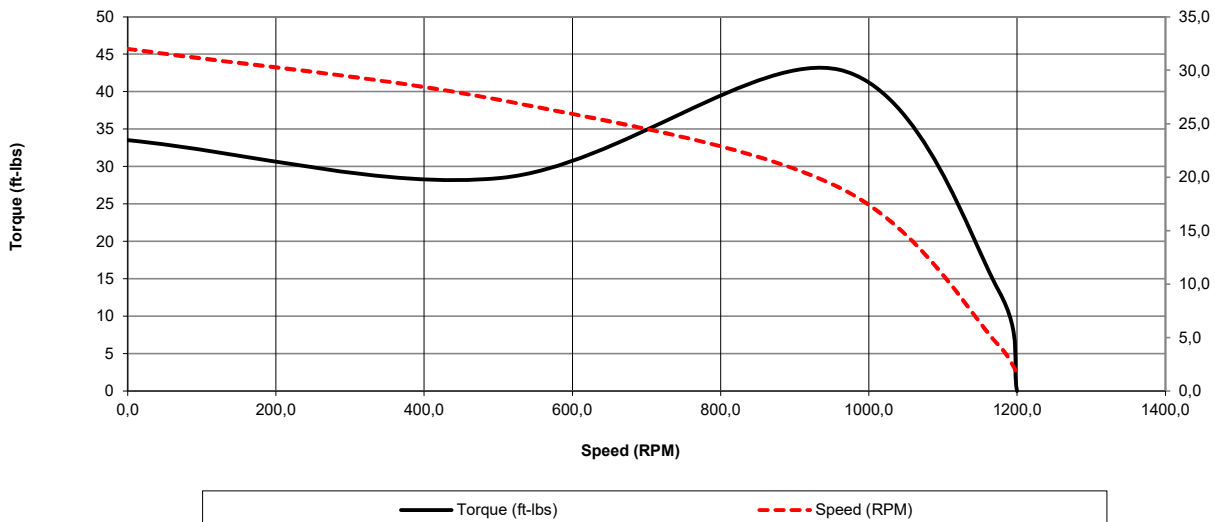


Date: 2024-01-29
 Customer: _____
 Contact: _____
 Submittee: J.C. Lavallée

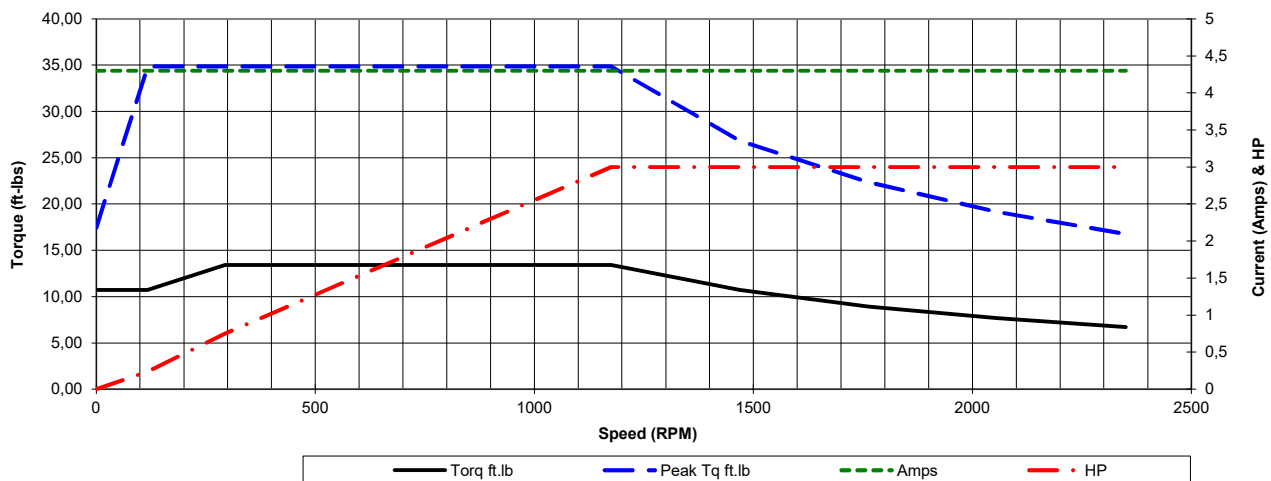
Catalogue #: **MQSP-306TL**

| NEMA PREMIUM NR CAN NEMA 12 - 12 | | | | | | | | | | |
|----------------------------------|--------------|---------|-----------|------------|-----------|---|---------|----------------|------------------|---------------|
| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
| 3 | 460 | 1175 | TEFC | 213TC | 60 | B | 6 | K | F | < 80 |
| | 0Hz | 6Hz | 15Hz | 30Hz | 45Hz | 60Hz | 75Hz | 90Hz | 105Hz | 120Hz |
| Amps | 4,3 | 4,3 | 4,3 | 4,3 | 4,3 | 4,3 | 4,3 | 4,3 | 4,3 | 4,3 |
| RPM | 0 | 117,5 | 293,75 | 587,5 | 881,25 | 1175 | 1468,75 | 1762,5 | 2056,25 | 2350 |
| Torq ft.lb | 10,73 | 10,73 | 13,41 | 13,41 | 13,41 | 13,41 | 10,73 | 8,94 | 7,66 | 6,70 |
| Peak Tq ft.lb | 17,43 | 34,86 | 34,86 | 34,86 | 34,86 | 34,86 | 26,82 | 22,35 | 19,16 | 16,76 |
| 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 | 504 | 960 | 1175 | 1200 | Continuous | 1,15 | 40°C | 3,300 ft | 61 |
| Current (Amps) | 32,0 | 27,2 | 19,0 | 4,3 | 1,6 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 33,5 | 28,5 | 42,9 | 13,4 | 0,0 | CT | 10:1 | VT | 20:1 | |

Motor Speed Data



Motor Torque Capability vs RPM



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|----------------------------------|--------------|---------|-----------|------------|-----------|--------------------------------------|--------|----------------|------------------|---------------|
| HP | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Code Letter | Insulation Class | Temp. Rise °C |
| 3 | 460 | 1175 | TEFC | 213TC | 60 | B | 6 | K | F | < 80 |
| Load % | 0% | 25% | 50% | 75% | 100% | 125% | 150% | | | |
| Amps | 1,63 | 1,84 | 2,55 | 3,36 | 4,30 | 5,27 | 6,29 | | | |
| Torq ft/lbs | 0 | 3,30 | 6,63 | 10,00 | 13,41 | 16,85 | 20,33 | | | |
| RPM | 0 | 1193,75 | 1187,5 | 1181,25 | 1175 | 1168,75 | 1162,5 | | | |
| Eff | 0 | 73,67 | 87,70 | 89,20 | 89,50 | 89,50 | 89,50 | | | |
| PF | 0 | 32,8 | 54 | 67 | 73,0 | 74,4 | 74,8 | | | |
| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBA @ 1M |
| Speed (RPM) | 0 | 504 | 960 | 1175 | 1200 | Continuous | 1,15 | 40°C | 3,300 ft | 61 |
| Current (Amps) | 32 | 27,2 | 19,0 | 4,3 | 1,634 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | |
| Torque (ft-lbs) | 33,52 | 28,49 | 42,91 | 13,41 | 0,0 | CT | 10:1 | VT | 20:1 | |

