

**NEMA**

**Model GPS.502C-01**  
MFG PN: SLF561/2Z2L

# Model **GPS.502C-01**

## Product Data Package



| MODEL       | HP  | RPM  | VOLTAGE     | PHASE | Hz | FRAME | MOUNT | ENCLOSURE |
|-------------|-----|------|-------------|-------|----|-------|-------|-----------|
| GPS.502C-01 | 0.5 | 3450 | 115/208-230 | 1     | 60 | 56    | Rigid | TEFC      |

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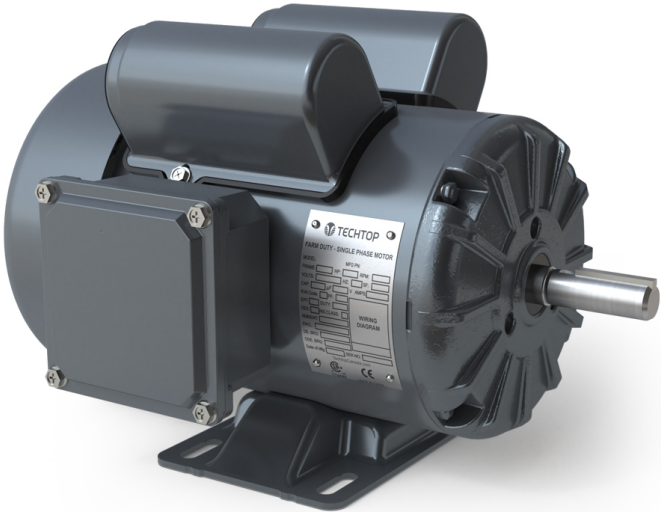
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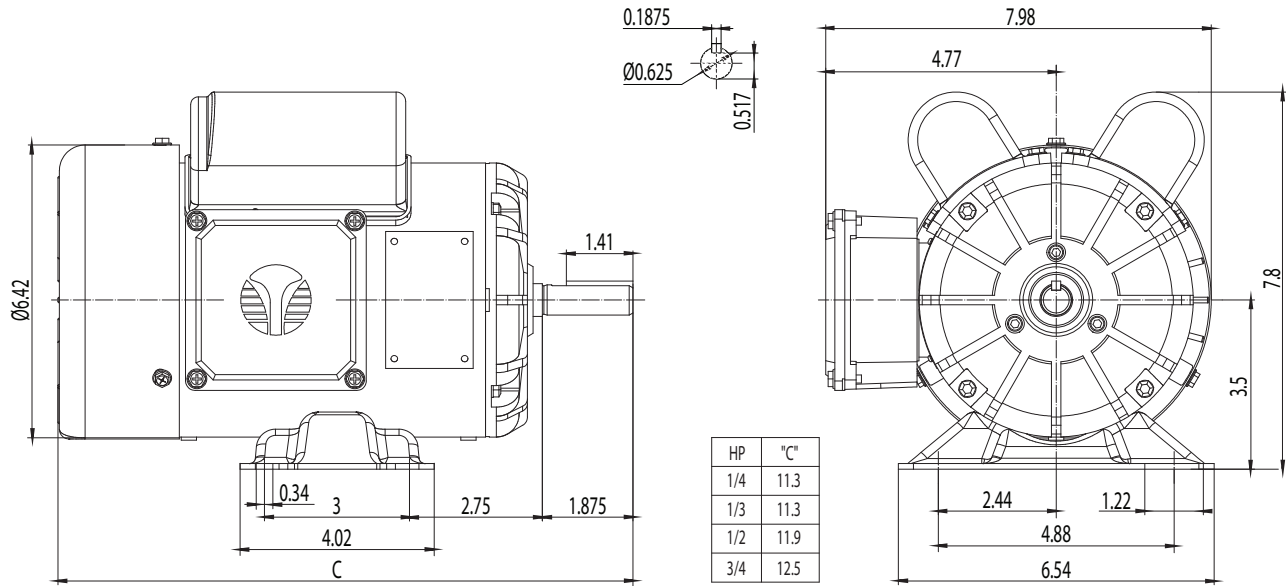
| ELECTRICAL DATA                     |              |                            |
|-------------------------------------|--------------|----------------------------|
| Rated Motor Output Power            | 0.5          | HP                         |
|                                     | -            | kW                         |
| Rated Motor Speed                   | 3450         | r/min 60Hz                 |
|                                     | -            | r/min 50Hz                 |
| Rated Motor Voltage (+/-10%)        | 115/208-230  | V/60Hz                     |
|                                     | -            | V/50Hz                     |
| Rated Motor Current                 | 5.0/2.7-2.5  | A (I <sub>n</sub> ) @ 60Hz |
|                                     | -            | A (I <sub>n</sub> ) @ 50Hz |
| Phase                               | 1            | Ø                          |
| Locked Rotor Current @ High Voltage | 18.61        | A (I <sub>n</sub> ) @ 60Hz |
| FI Current @ 208V                   | 2.7          | A (I <sub>n</sub> ) @ 60Hz |
| Service Factor                      | 1.15         | @ 60Hz                     |
|                                     | -            | @ 50Hz                     |
| KVA Code                            | K            | 60Hz                       |
|                                     | -            | 50Hz                       |
| Nominal Efficiency                  | 71           | % @ 60Hz                   |
| Nominal Power Factor                | 0.9          | cosΦ @ 60Hz                |
| Leads (Qty, Size)                   | 6            | 14                         |
| Connection                          | -            | -                          |
| Coil Resistance                     | -            | Ω                          |
| Start Capacitor                     | 250/125      | µF/V                       |
| Run Capacitor                       | 40/250       | µF/V                       |
| <b>VFD DUTY (S.F. 1.0)</b>          | <b>RATIO</b> | <b>Hz</b>                  |
| Variable Torque                     | -            | -                          |
| Constant Torque                     | -            | -                          |
| FULL LOAD TEMPERATURE RISE          |              |                            |
| Full Load Temperature Rise          | 36           | °C @ 60Hz                  |
|                                     | -            | °C @ 50Hz                  |

| GENERAL DATA                        |                  |       |
|-------------------------------------|------------------|-------|
| Frame Size                          | 56               |       |
| Enclosure                           | TEFC             |       |
| Mounting                            | Rigid            |       |
| Approximate Weight (lbs.)           | 24 lbs.          |       |
| Casing Material / Fan Cover         | Rolled Steel     | Steel |
| Shaft Material                      | 1045             |       |
| NEMA Design                         | L                |       |
| Degree of Protection (IP)           | 54               |       |
| Insulation Class / Temp Rise (60Hz) | F                | B     |
| Tropicalization                     | NO               |       |
| Duty                                | Cont. / S1       |       |
| Conduit Box Location                | F1               |       |
| Feet Removable / Double Drilled     | NO               | NO    |
| Paintwork                           | 7024             |       |
|                                     | Graphite Gray    |       |
| MECHANICAL DATA                     |                  |       |
| Bearing DE Side                     | 6203 2RS         |       |
| Bearing ODE Side                    | 6202 2RS         |       |
| Grease Type                         | Mobil Polyrex EM |       |
| Compensation Ring (wavy washer)     | NDE              |       |
| Moment of Inertia (lb-ft²)          | -                |       |
| Sound Pressure @ 3 FT dBA           | -                |       |
| SITE CONDITIONS                     |                  |       |
| Ambient Temperature (°C)            | 40               |       |
| Meters Above Sea Level (MASL)       | 1000             |       |
| HAZARDOUS LOCATIONS                 |                  |       |
| CSA Certified                       | -                |       |
| Temperature Code                    | -                | -     |

Questions? Call 1.888.286.1820

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| NAMEPLATE DATA             | 60Hz        | 50Hz |
|----------------------------|-------------|------|
| Horse Power                | 0.5         | -    |
| RPM                        | 3450        | -    |
| Voltage                    | 115/208-230 | -    |
| Full Load Amps             | 5.0/2.7-2.5 | -    |
| Service Factor             | 1.15        | -    |
| KVA Code                   | K           | -    |
| Full Load Amps (208V)      | 2.7         | -    |
| Nominal Efficiency         | 71          | -    |
| Nominal Power Factor       | 0.9         | -    |
| Design                     | L           |      |
| Frame                      | 56          |      |
| Enclosure Type             | TEFC        |      |
| IP Rating                  | 54          |      |
| Duty                       | Cont. / S1  |      |
| Insulation Class           | F           |      |
| Ambient Rating             | 40          |      |
| Drive End Bearing          | 6203 2RS    |      |
| Opposite Drive End Bearing | 6202 2RS    |      |
| Weight (lbs)               | 24          |      |

**NAMEPLATE LAYOUT**

 **TECHTOP**

GEN. PURPOSE SINGLE PHASE MOTOR

MODEL: \_\_\_\_\_ MFG PN: \_\_\_\_\_

FRAME: \_\_\_\_\_ HP: \_\_\_\_\_ RPM: \_\_\_\_\_

VOLTS: \_\_\_\_\_ HZ: \_\_\_\_\_ SF: \_\_\_\_\_

CAP: \_\_\_\_\_  $\mu$ F \_\_\_\_\_ V AMPs: \_\_\_\_\_

KVA Code: \_\_\_\_\_ PF: \_\_\_\_\_

EFF: \_\_\_\_\_ DUTY: \_\_\_\_\_

DES: \_\_\_\_\_ INS. CLASS: \_\_\_\_\_

AMBIENT: \_\_\_\_\_

ENCL: \_\_\_\_\_

DE. BRG: \_\_\_\_\_

ODE. BRG: \_\_\_\_\_

Date of Mfg: \_\_\_\_\_ SER NO. \_\_\_\_\_

WIRING DIAGRAM

224693 C US CE MADE IN CHINA

**CAPACITOR DATA**

Start Capacitor  
Run Capacitor

$\mu$ F

250  
40

**VOLTAGE**

125  
250

\*For max speed please contact Techtop Canada

**HAZARDOUS LOCATIONS**

Class / Division  
Groups

-  
-  
-

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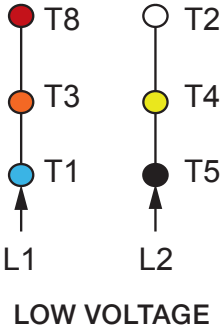
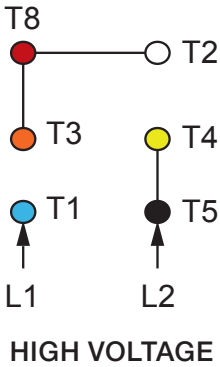
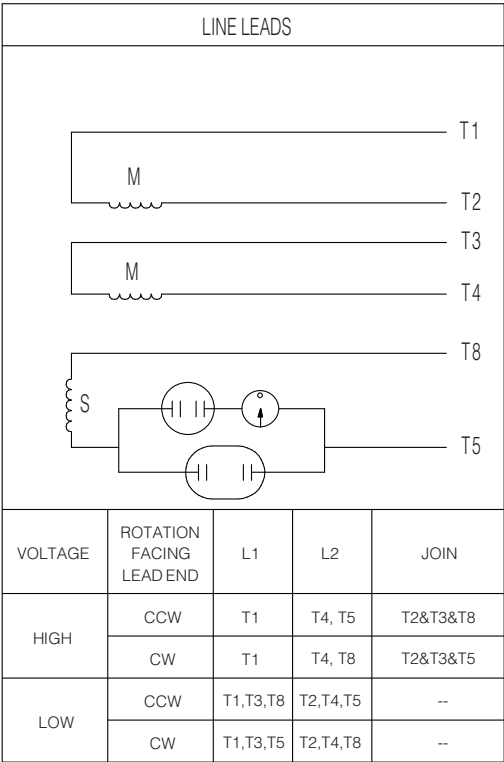
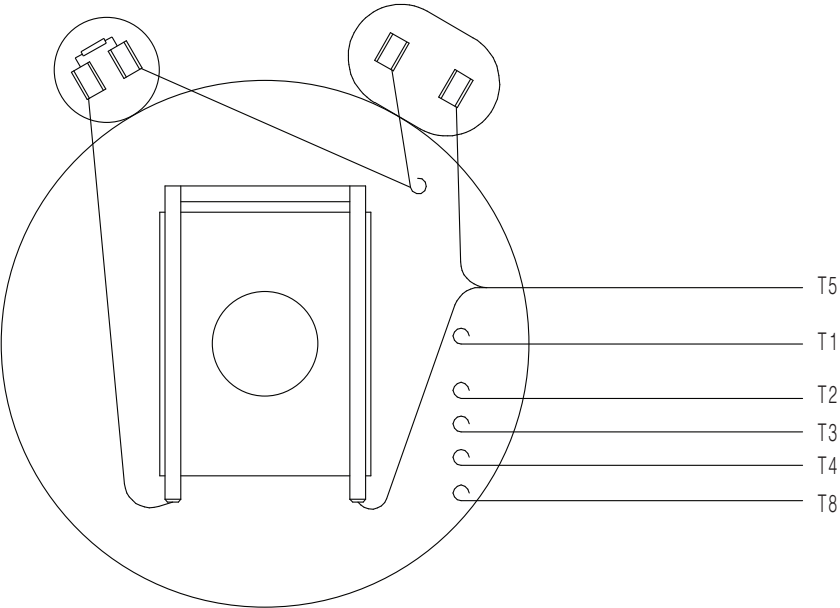


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| PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz |                |                      | TYPICAL PERFORMANCE - NOT GUARANTEED VALUES |       |
|---------------------------------------------|----------------|----------------------|---------------------------------------------|-------|
| TORQUE VALUES                               | TORQUE (lb-ft) | TORQUE (% FULL LOAD) | PERFORMANCE VALUES                          |       |
| Locked Rotor Torque                         | 0.8            | 339                  | Start Configuration                         | DOL   |
| Pull-Up Torque                              | 2              | 268                  | Starting Current (A)                        | 18.61 |
| Breakdown Torque                            | 2.3            | 299                  | No-Load Current (A)                         | 0.8   |
| Full Load Torque                            | 2.6            | 100                  | No-Load Power Factor                        | -     |

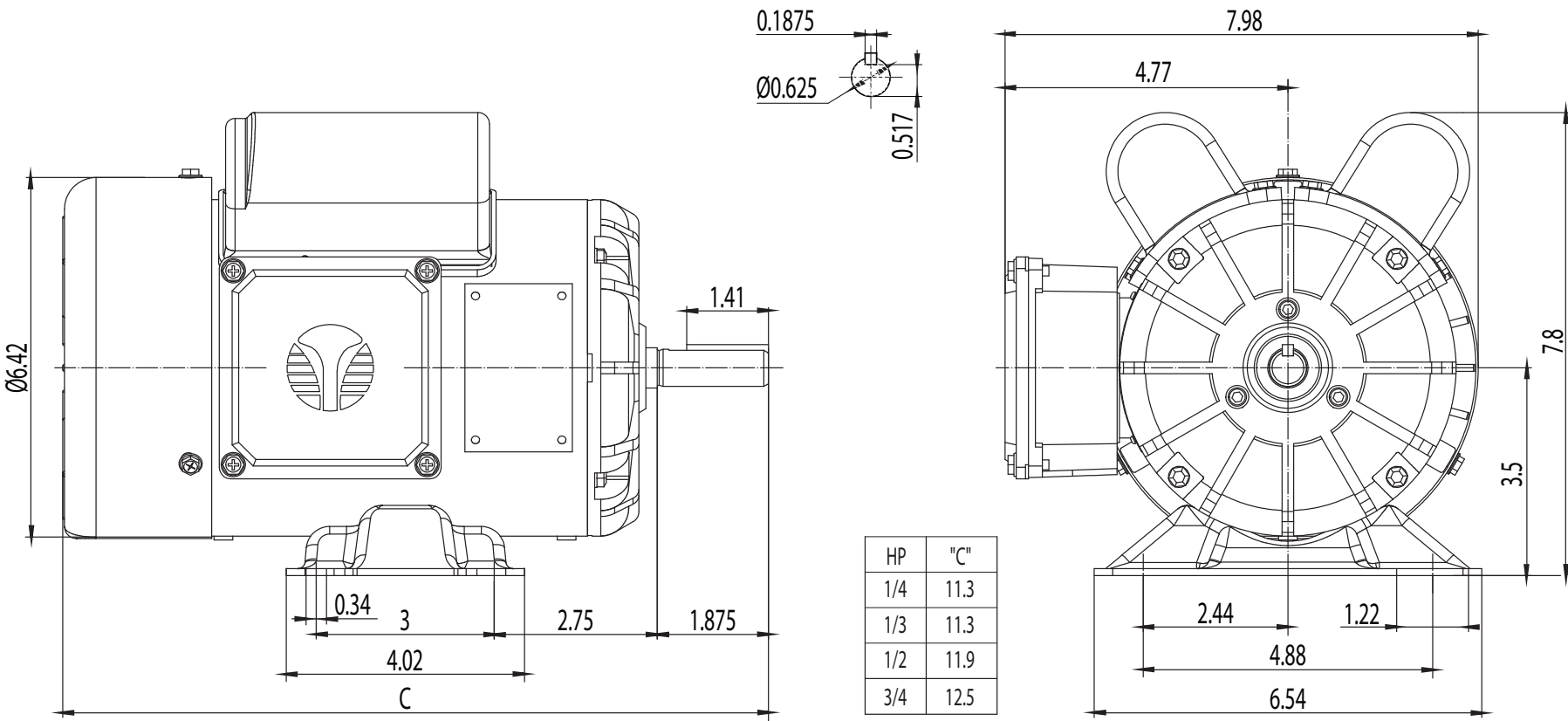
| % OF RATED LOAD     | 25 | 50 | 75 | 100  | 125 | S.F. 1.15 |
|---------------------|----|----|----|------|-----|-----------|
| Line Amperes (A)    | -  | -  | -  | 2.2  | -   | 2.5       |
| Efficiency (%)      | -  | -  | -  | 75.9 | -   | 77.6      |
| Speed (r/min)       | -  | -  | -  | 3528 | -   | 3516      |
| Power Factor (cosΦ) | -  | -  | -  | 0.98 | -   | 0.98      |
| Input Power (kW)    | -  | -  | -  | -    | -   | -         |

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NEMA 10 General Purpose Dual Voltage

|                     |                 |                                     |          |
|---------------------|-----------------|-------------------------------------|----------|
| DRAWING NUMBER:     | NEMA-GP-56-140T | ISSUED DATE                         | 28/07/25 |
| CONNECTION:         | -               | GENERAL PURPOSE SINGLE PHASE MOTORS |          |
| NUMBER OF LEADS:    | 6               |                                     |          |
| THERMAL PROTECTION: | Optional        |                                     |          |



TEFC 56

|                  |                 |                                     |          |
|------------------|-----------------|-------------------------------------|----------|
| DRAWING NUMBER:  | BL1-RS-TF-56-01 | ISSUED DATE                         | 28/07/25 |
| DIMENSIONS:      | Inches          | GENERAL PURPOSE SINGLE PHASE MOTORS |          |
| MOUNTING:        | Rigid           |                                     |          |
| CASING MATERIAL: | Rolled Steel    |                                     |          |