



# Submittal Data Information

## SFI Series Pumps

301-2738-E

EFFECTIVE: May 05, 2023

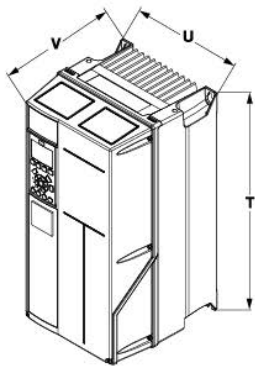
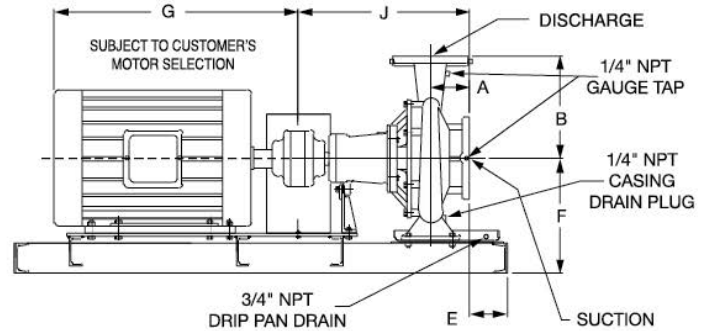
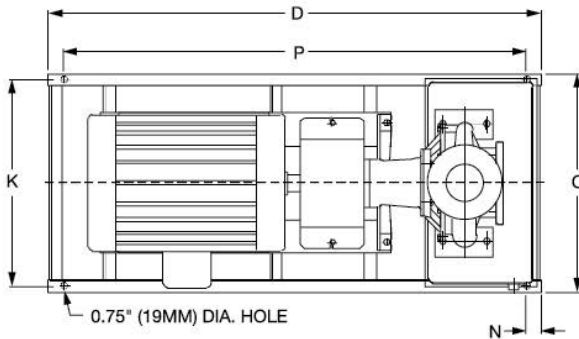
SUPERSEDES: January 27, 2020

MODEL SFI2510C-1760-7.5

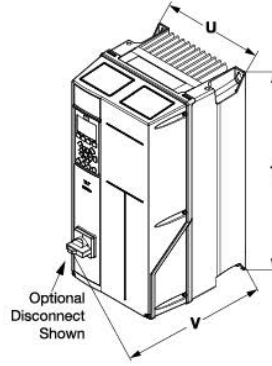
JOB: \_\_\_\_\_ ENGINEER: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ REP: \_\_\_\_\_

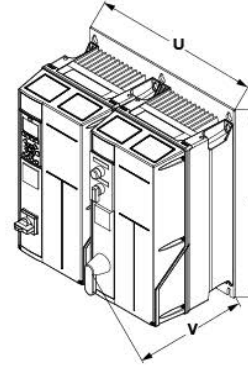
| ITEM NO.             | MODEL NO.              | IMPELLER DIA.      |      | G.P.M.        | HEAD/FT                       | H.P. | ELEC. CHAR. |
|----------------------|------------------------|--------------------|------|---------------|-------------------------------|------|-------------|
| Configuration        | DOE Basic Model Number | PEI Value          |      | Energy Rating | WEIGHT _____ PUMP/MOTOR _____ |      |             |
| Pump + Motor + Drive | SFI2510C-A-4P-PD       | PEI <sub>eff</sub> | 0.47 | 53            |                               |      |             |



Basic drive



Drive with optional disconnect



Drive with bypass

| HP Range              |                       |                       | Frame                | Dimensions - Inches (mm) |            |            |
|-----------------------|-----------------------|-----------------------|----------------------|--------------------------|------------|------------|
| 208V                  | 460V                  | 575V                  |                      | T                        | U          | V          |
| 1.5 (1.1) - 5 (4.0)   | 1.5 (1.1) - 10 (7.5)  | 1.5 (1.1) - 10 (7.5)  | Without bypass<br>A5 | 16.5 (420)               | 9.5 (242)  | 9.6 (243)  |
| 1.5 (1.1) - 5 (4.0)   | 1.5 (1.1) - 10 (7.5)  | 1.5 (1.1) - 10 (7.5)  | With bypass<br>A5    | 18.9 (478)               | 19.2 (487) | 10.3 (262) |
| 7.5 (5.5) - 15 (11.0) | 15 (11.0) - 25 (18.0) | 15 (11.0) - 25 (18.0) | Without bypass<br>B1 | 18.9 (480)               | 9.5 (242)  | 12.1 (308) |
| 7.5 (5.5) - 15 (11.0) | 15 (11.0) - 25 (18.0) | 15 (11.0) - 25 (18.0) | With bypass<br>B1    | 21.5 (546)               | 19.1 (485) | 12.9 (327) |

### DIMENSIONS for NEMA TEFC Type 12 / IP55

50 Cycle Performance Curves attached when applicable.

| Model No.<br>Flange Size<br>(Suction x Discharge) | Motor<br>Frame | HP<br>1760<br>RPM | A<br>ANSI<br>Class<br>125 | B<br>ANSI<br>Class<br>125 | C              | D              | E<br>ANSI<br>Class<br>125 | F              | G              | J<br>ANSI<br>Class<br>125 | K              | N            | P             |
|---------------------------------------------------|----------------|-------------------|---------------------------|---------------------------|----------------|----------------|---------------------------|----------------|----------------|---------------------------|----------------|--------------|---------------|
| 2510C-7.5<br>3 x 2 1/2<br>(76 x 64)               | 213T           | 7.5               | 4.72<br>(120)             | 9.75<br>(248)             | 17.18<br>(436) | 40.0<br>(1016) | 1.14<br>(29)              | 12.06<br>(306) | 17.94<br>(456) | 18.30<br>(465)            | 15.68<br>(398) | 2.00<br>(51) | 36.0<br>(914) |

English dimensions are in inches. Metric dimensions are in millimeters. Metric data is presented in ( ).  
Do not use for construction purposes unless certified.

# MATERIALS OF CONSTRUCTION

|                 | BRONZE FITTED               |                                    | ALL IRON                           |                                    |
|-----------------|-----------------------------|------------------------------------|------------------------------------|------------------------------------|
|                 | Standard Pump Construction  | Optional                           | Standard Pump Construction         | Optional                           |
| Impeller        | Bronze ASTM B584-836        | N/A                                | Cast Iron ASTM A48 Class 30A       | N/A                                |
| Wear Ring       | N/A                         | Bronze ASTM B584-932 SAE660        | N/A                                | N/A                                |
| Shaft           | Carbon Steel AISI 1054      | Stainless Steel AISI 416 ASTM A382 | Carbon Steel AISI 1054             | Stainless Steel AISI 416 ASTM A382 |
| Shaft Sleeve    | Bronze ASTM B584-932 SAE660 | Stainless Steel AISI 303 ASTM A276 | Stainless Steel AISI 303 ASTM A276 | N/A                                |
| Mech. Seal      | Ceramic/EPT                 | C/F                                | Ceramic/EPT                        | C/F                                |
| Seal Flush Line | N/A                         | Copper                             | N/A                                | Stainless Steel                    |

CF - Consult Factory

NA - Not Available

| Model No.<br>Flange Size<br>(Suction x Discharge) | HP<br>1760<br>RPM | A<br>ANSI<br>Class<br>250 | B<br>ANSI<br>Class<br>250 | E<br>ANSI<br>Class<br>250 | J<br>ANSI<br>Class<br>250 |
|---------------------------------------------------|-------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 2510C-7.5<br>3 x 2 1/2<br>(76 x 64)               | 7.5               | 5.09<br>(129)             | 10.06<br>(256)            | 0.77<br>(20)              | 18.67<br>(474)            |

## MAXIMUM ASSEMBLY WEIGHT

| Motor Frame | Weight<br>Lbs (Kg) |
|-------------|--------------------|
| 213T        | 542 (246)          |

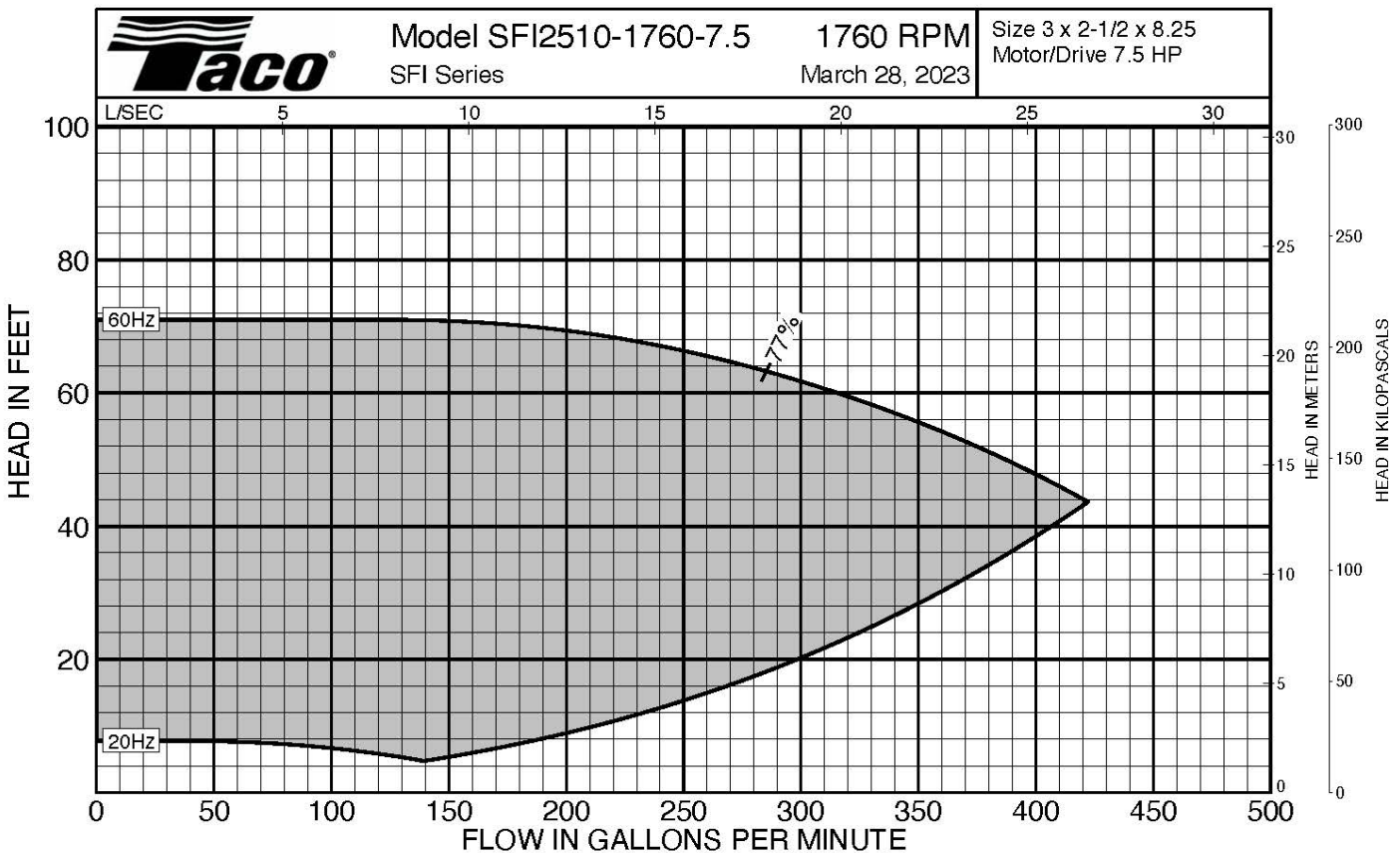
## OPERATING SPECIFICATIONS

|             | Standard             | Optional              |
|-------------|----------------------|-----------------------|
| Flange      | ANSI Class 125       | ANSI Class 250        |
| Pressure    | 175 PSIG* (1210 KPA) | 300 PSIG** (2070 KPA) |
| Temperature | 250°F (120°C)        | 250°F (120°C)         |

Motors: All NEMA Standard (T Frame)

\* In accordance with ANSI Standard B16.1 Class 125

\*\* In accordance with ANSI Standard B16.1 Class 250 Dim.



COMMENTS: \_\_\_\_\_

**SPECIFICATIONS:**

| MOTOR DESIGN DATA |    |
|-------------------|----|
| HP                |    |
| Volts             |    |
| Frequency         | Hz |
| Phase             |    |

| DRIVE DATA                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocols (Standard)       | BACnet, Modbus RTU, N2 Metasys, FLN Apogee, FC Protocol                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Protocols (Optional)       | <input type="checkbox"/> LonWorks® <input type="checkbox"/> DeviceNet <input type="checkbox"/> Profibus                                                                                                                                                                                                                                                                                                                                                                                                           |
| Enclosure                  | <input type="checkbox"/> NEMA Type 1 / IP21                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| I/O (Standard)             | 6 Digital Inputs / 2 Digital Outputs<br>1 Analog Current Output / 2 Analog Inputs<br>2 Pulse Inputs<br>2 Form C Relays                                                                                                                                                                                                                                                                                                                                                                                            |
| Additional Control Options | <input type="checkbox"/> None <input type="checkbox"/> General Purpose I/O <input type="checkbox"/> Relay Card <input type="checkbox"/> 24VDC Supply <input type="checkbox"/> Analog I/O                                                                                                                                                                                                                                                                                                                          |
| Electrical Configuration   | <input type="checkbox"/> Basic (no disconnect)<br><input type="checkbox"/> Mechanical disconnect<br><input type="checkbox"/> Fused disconnect<br><input type="checkbox"/> 2 Contactor Bypass - Drive Fusing & Main Disconnect (5kA SCCR)<br><input type="checkbox"/> 2 Contactor Bypass - Main Fusing & Disconnect (100kA SCCR)<br><input type="checkbox"/> 3 Contactor Bypass - Drive Fusing & Main Disconnect (5kA SCCR)<br><input type="checkbox"/> 3 Contactor Bypass - Main Fusing & Disconnect (100kA SCCR) |
| ENI/RFI Control            | Integated filter designed to meet EN61800-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Harmonic Suppression       | Dual DC-link chokes (Equivalent: 5% AC line reactor)<br>Supporting IEEE 519-1992 requirements                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cooling                    | Fan-cooled through back channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Ambient Temperature        | -10°C to 45°C up to 1000 meters above sea level<br>-14°F to 113°F up to 3300 feet above sea level                                                                                                                                                                                                                                                                                                                                                                                                                 |

| CONTROL CONNECTIONS            |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Analog input (follower signal) | 2; selectable voltage or current, direct and inverse acting |
| Digital inputs (programmable)  | 6 (2 can be used as digital outputs)                        |
| Analog outputs (programmable)  | 1; 0/4 to 20 mA                                             |
| Relay outputs (programmable)   | 2 standard Form C 240 V AC, 2 A; 1 or 3 additional optional |
| Auxiliary voltage              | +24 V DC, maximum 200 mA                                    |
| Communication port             | 1 RS485, 1 USB                                              |

