

|                 |                    |                  |             |           |       |
|-----------------|--------------------|------------------|-------------|-----------|-------|
| PROJECT:        | _____              | UNIT TAG:        | _____       | QUANTITY: | _____ |
| REPRESENTATIVE: | Hurley Engineering | TYPE OF SERVICE: | _____       | DATE:     | _____ |
| ENGINEER:       | _____              | SUBMITTED BY:    | Devin Carle | DATE:     | _____ |
| CONTRACTOR:     | TBD                | APPROVED BY:     | _____       | DATE:     | _____ |
|                 |                    | ORDER NO.:       | _____       | DATE:     | _____ |

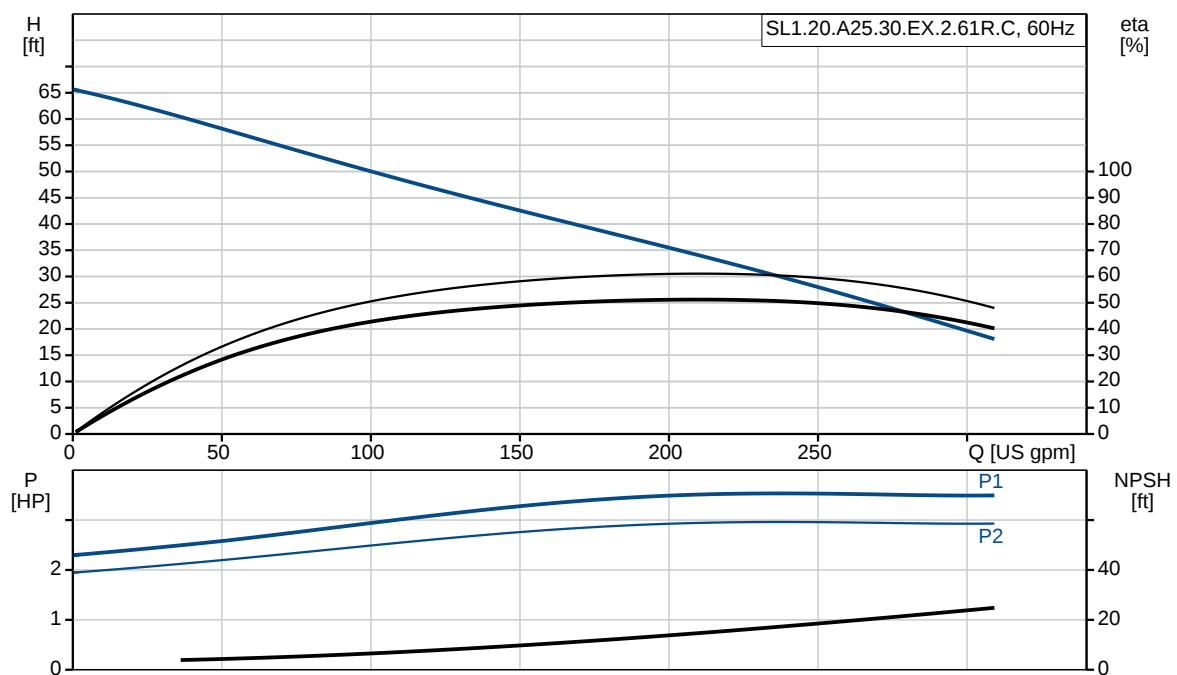
### SL1.20.A25.30.EX.2.61R.C

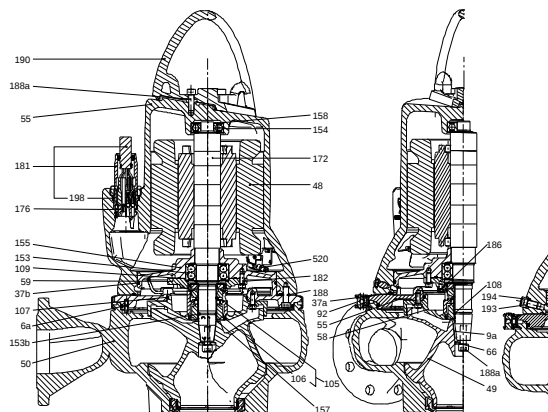
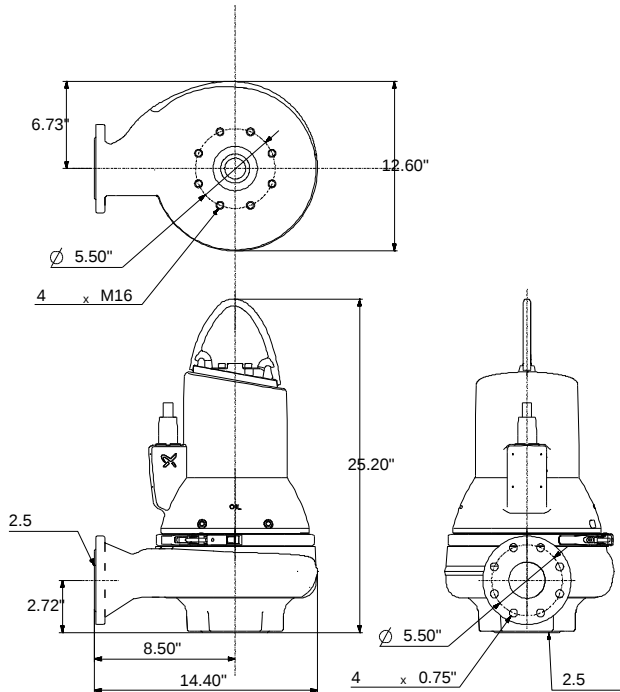
#### Sewage pumps



Product photo could vary from the actual product

| Conditions of Service     | Pump Data                           | Motor Data                       |
|---------------------------|-------------------------------------|----------------------------------|
| Flow: _____               | Maximum ambient temperature: 104 °F | Rated voltage: 230/460 V         |
| Head: _____               | Approvals: CSA, FM                  | Main frequency: 60 Hz            |
| Efficiency: _____         | Flange standard: ANSI               | Number of poles: 2               |
| Liquid: any viscous fluid | Product number: 99030117            | Enclosure class: IP68            |
| Temperature: _____        |                                     | Insulation class: H              |
| NPSH required: ft         |                                     | Motor protection: THERMAL SWITCH |
| Viscosity: _____          |                                     | Motor_efficiency: 83.8 %         |
| Specific Gravity: 1.000   |                                     |                                  |





**Materials:**

Pump housing: Cast iron  
 EN 5.1301 EN-GJL-250  
 ASTM A48-250B

Impeller: Cast iron  
 EN 5.1301 EN-GJL-250  
 ASTM A48-250B

Motor: EN-GJL-250

| Count                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------|----------------------|-----------------------------|----------------|-------------------|-----------------------------|--------|----------|--------------|-------------------|--------|------------------------|------------|---------------------|---------|-----------------------|-----------------|-------------------------|---------|------------------|----------------------|---------------|----------------------------------------------------|-----------|----------------------------------------------------|--------|------------|
| 1                           | <p><b>SL1.20.A25.30.EX.2.61R.C</b></p>  <p>Product photo could vary from the actual product</p> <p>Product No.: <a href="#">99030117</a></p> <p>Non-self-priming, single-stage, centrifugal pump designed for handling wastewater, process water and unscreened raw sewage.</p> <p>The pump is designed for intermittent and continuous operations in submerged installation. The revolutionary S-tube® impeller provides free spherical passage of solids up to 1 15/16 in and is suitable for wastewater with a dry matter content of up to 3 %.</p> <p>A unique stainless-steel clamp assembling system enables quick and easy disassembly of the pump from the motor unit for service and inspection. No special tools are required. Pipework connection is via a ANSI flange.</p> <p>The pump is explosion-proof.</p> <p><b>Controls:</b></p> <table> <tr> <td>Moisture sensor:</td><td>with moisture sensors</td></tr> <tr> <td>Water-in-oil sensor:</td><td>without water-in-oil sensor</td></tr> </table> <p><b>Liquid:</b></p> <table> <tr> <td>Pumped liquid:</td><td>any viscous fluid</td></tr> <tr> <td>Maximum liquid temperature:</td><td>104 °F</td></tr> <tr> <td>Density:</td><td>62.29 lb/ft³</td></tr> </table> <p><b>Technical:</b></p> <table> <tr> <td>Type of impeller:</td><td>S-TUBE</td></tr> <tr> <td>Maximum particle size:</td><td>1 15/16 in</td></tr> <tr> <td>Primary shaft seal:</td><td>SIC/SIC</td></tr> <tr> <td>Secondary shaft seal:</td><td>CARBON/CERAMICS</td></tr> <tr> <td>Approvals on nameplate:</td><td>CSA, FM</td></tr> <tr> <td>Curve tolerance:</td><td>ANSI/HI11.6:2012 3B2</td></tr> </table> <p><b>Materials:</b></p> <table> <tr> <td>Pump housing:</td><td>Cast iron<br/>EN 5.1301 EN-GJL-250<br/>ASTM A48-250B</td></tr> <tr> <td>Impeller:</td><td>Cast iron<br/>EN 5.1301 EN-GJL-250<br/>ASTM A48-250B</td></tr> <tr> <td>Motor:</td><td>EN-GJL-250</td></tr> </table> <p><b>Installation:</b></p> | Moisture sensor: | with moisture sensors | Water-in-oil sensor: | without water-in-oil sensor | Pumped liquid: | any viscous fluid | Maximum liquid temperature: | 104 °F | Density: | 62.29 lb/ft³ | Type of impeller: | S-TUBE | Maximum particle size: | 1 15/16 in | Primary shaft seal: | SIC/SIC | Secondary shaft seal: | CARBON/CERAMICS | Approvals on nameplate: | CSA, FM | Curve tolerance: | ANSI/HI11.6:2012 3B2 | Pump housing: | Cast iron<br>EN 5.1301 EN-GJL-250<br>ASTM A48-250B | Impeller: | Cast iron<br>EN 5.1301 EN-GJL-250<br>ASTM A48-250B | Motor: | EN-GJL-250 |
| Moisture sensor:            | with moisture sensors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Water-in-oil sensor:        | without water-in-oil sensor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Pumped liquid:              | any viscous fluid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Maximum liquid temperature: | 104 °F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Density:                    | 62.29 lb/ft³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Type of impeller:           | S-TUBE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Maximum particle size:      | 1 15/16 in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Primary shaft seal:         | SIC/SIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Secondary shaft seal:       | CARBON/CERAMICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Approvals on nameplate:     | CSA, FM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Curve tolerance:            | ANSI/HI11.6:2012 3B2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Pump housing:               | Cast iron<br>EN 5.1301 EN-GJL-250<br>ASTM A48-250B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Impeller:                   | Cast iron<br>EN 5.1301 EN-GJL-250<br>ASTM A48-250B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |
| Motor:                      | EN-GJL-250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                       |                      |                             |                |                   |                             |        |          |              |                   |        |                        |            |                     |         |                       |                 |                         |         |                  |                      |               |                                                    |           |                                                    |        |            |



Company name: Hurley Engineering

Created by:

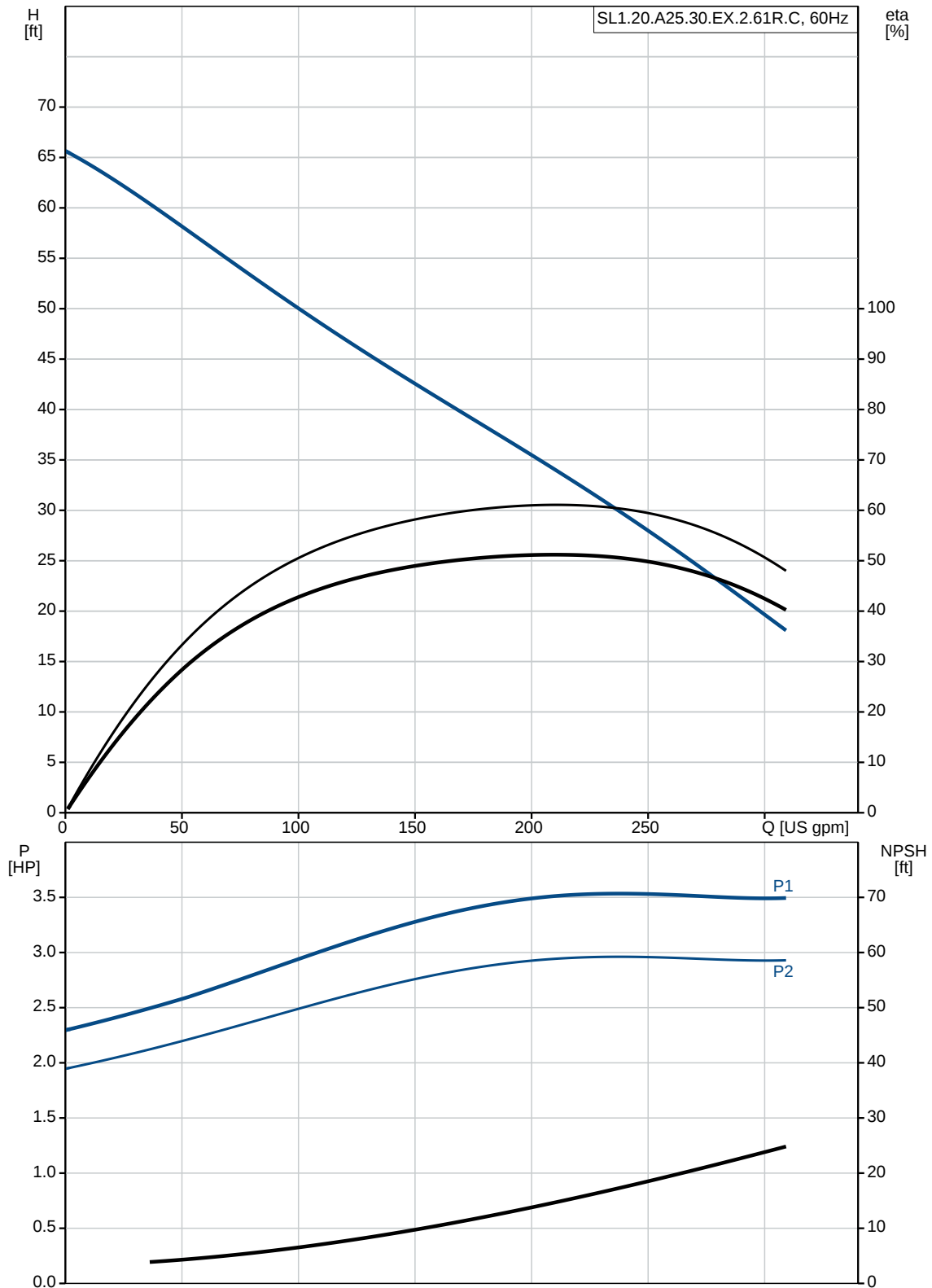
Phone:

Date:

1/6/2020

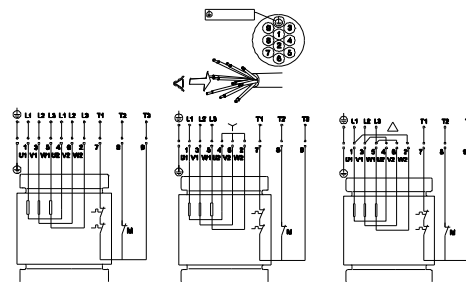
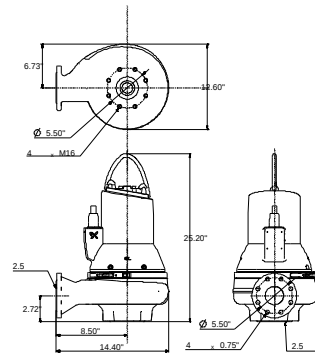
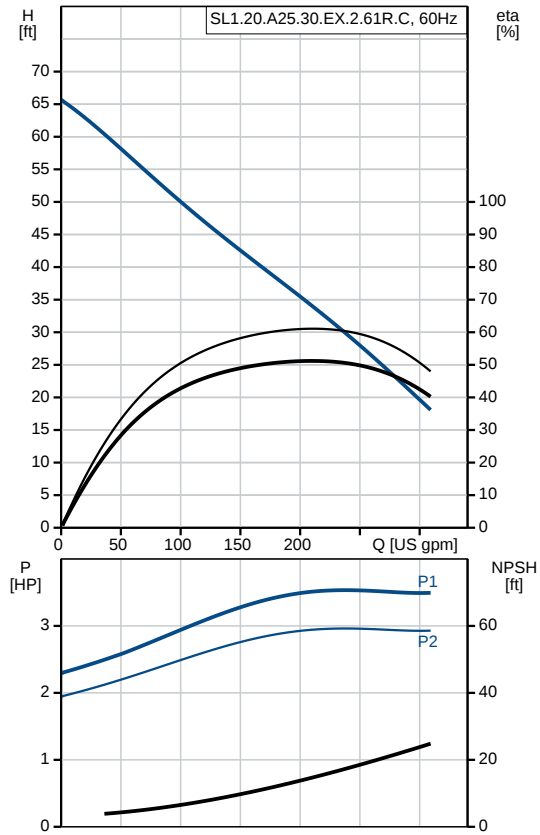
| Count | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | Maximum ambient temperature: 104 °F<br>Flange standard: ANSI<br>Pump inlet: 65<br>Pump outlet: 65<br>Pressure stage: PN 10<br>Maximum installation depth: 65.6 ft<br>Frame range: B<br><br><b>Electrical data:</b><br>Power input - P1: 3 kW<br>Rated power - P2: 3 HP<br>Main frequency: 60 Hz<br>Rated voltage: 3 x 230/460 V<br>Voltage tolerance: +10/-10 %<br>Max starts per. hour: 20<br>Rated current: 8.55/4.4 A<br>Starting current: 50 A<br>Cos phi - power factor: 0.9<br>Cos phi - p.f. at 3/4 load: 0.87<br>Cos phi - p.f. at 1/2 load: 0.81<br>Rated speed: 3470 rpm<br>Motor efficiency at full load: 83.8 %<br>Motor efficiency at 3/4 load: 85.2 %<br>Motor efficiency at 1/2 load: 84 %<br>Number of poles: 2<br>Start. method: star/delta<br>Enclosure class (IEC 34-5): IP68<br>Insulation class (IEC 85): H<br>Explosion proof: yes<br>Length of cable: 49 ft<br>Cable type: SEOW 600V<br><br><b>Others:</b><br>Net weight: 151 lb<br>Country of origin: US<br>Custom tariff no.: 8413.70.21 |

## 99030117 SL1.20.A25.30.EX.2.61R.C 60 Hz



Date: 1/6/2020

| Description                    | Value                    |
|--------------------------------|--------------------------|
| <b>General information:</b>    |                          |
| Product name:                  | SL1.20.A25.30.EX.2.61R.C |
| Product No.:                   | 99030117                 |
| EAN:                           | 5712605415312            |
|                                | 5712605415312            |
| Price:                         | \$ 4,349.00              |
| <b>Technical:</b>              |                          |
| Max flow:                      | 308 US gpm               |
| Head max:                      | 65.62 ft                 |
| Type of impeller:              | S-TUBE                   |
| Maximum particle size:         | 1 15/16 in               |
| Primary shaft seal:            | SIC/SIC                  |
| Secondary shaft seal:          | CARBON/CERAMICS          |
| Approvals on nameplate:        | CSA, FM                  |
| Curve tolerance:               | ANSI/HI11.6:2012 3B2     |
| Cooling jacket:                | without cooling jacket   |
| <b>Materials:</b>              |                          |
| Pump housing:                  | Cast iron                |
|                                | EN 5.1301 EN-GJL-250     |
|                                | ASTM A48-250B            |
| Impeller:                      | Cast iron                |
|                                | EN 5.1301 EN-GJL-250     |
|                                | ASTM A48-250B            |
| Motor:                         | EN-GJL-250               |
| <b>Installation:</b>           |                          |
| Maximum ambient temperature:   | 104 °F                   |
| Flange standard:               | ANSI                     |
| Pump inlet:                    | 65                       |
| Pump outlet:                   | 65                       |
| Pressure stage:                | PN 10                    |
| Maximum installation depth:    | 65.6 ft                  |
| Inst dry/wet:                  | SUBMERGED                |
| Installation:                  | Vertical                 |
| Frame range:                   | B                        |
| <b>Liquid:</b>                 |                          |
| Pumped liquid:                 | any viscous fluid        |
| Maximum liquid temperature:    | 104 °F                   |
| Density:                       | 62.29 lb/ft <sup>3</sup> |
| <b>Electrical data:</b>        |                          |
| Power input - P1:              | 3 kW                     |
| Rated power - P2:              | 3 HP                     |
| Main frequency:                | 60 Hz                    |
| Rated voltage:                 | 3 x 230/460 V            |
| Voltage tolerance:             | +10/-10 %                |
| Max starts per. hour:          | 20                       |
| Rated current:                 | 8.55/4.4 A               |
| Starting current:              | 50 A                     |
| Cos phi - power factor:        | 0.9                      |
| Cos phi - p.f. at 3/4 load:    | 0.87                     |
| Cos phi - p.f. at 1/2 load:    | 0.81                     |
| Rated speed:                   | 3470 rpm                 |
| Motor efficiency at full load: | 83.8 %                   |



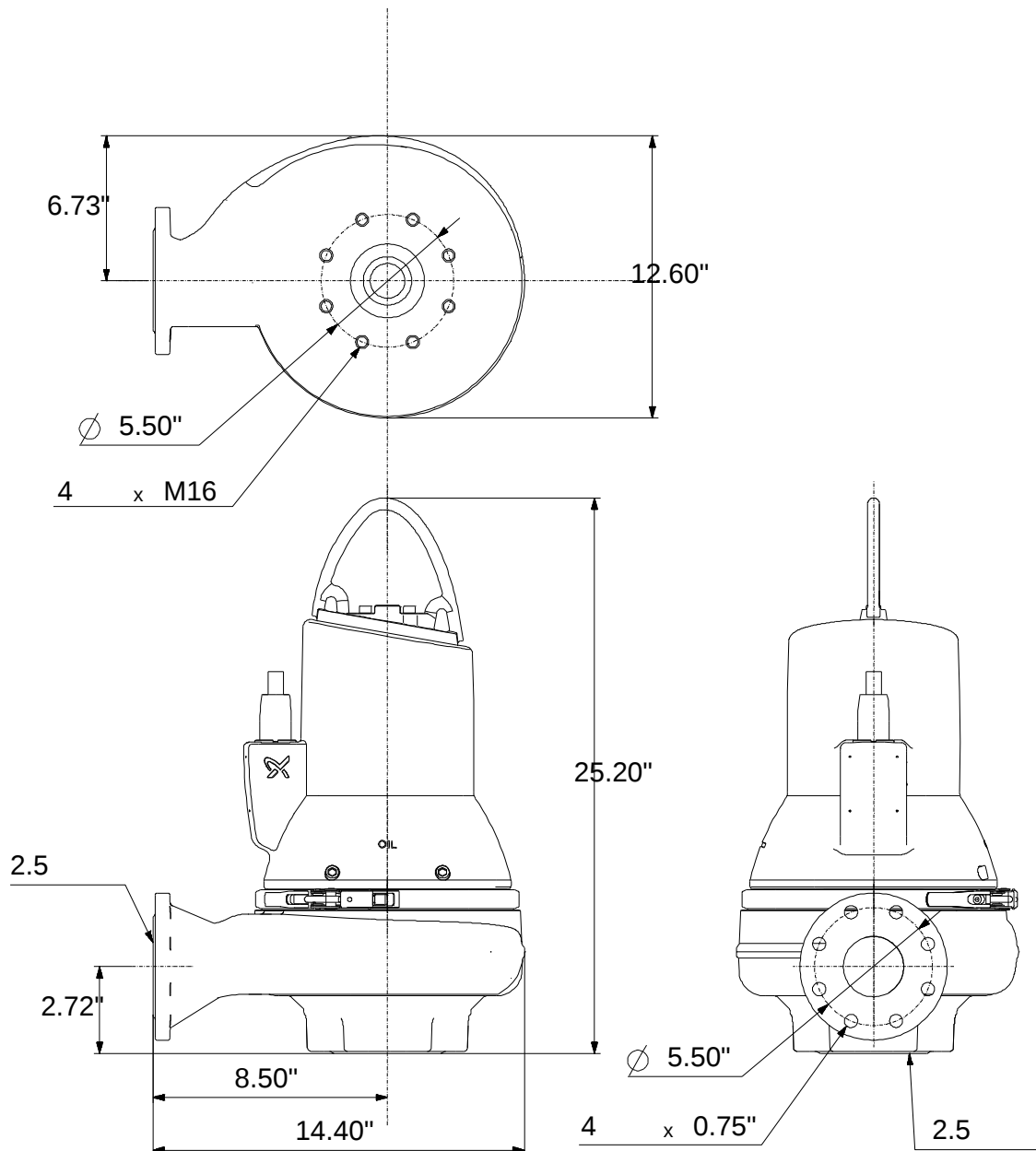


Company name: Hurley Engineering  
Created by:  
Phone:

Date: 1/6/2020

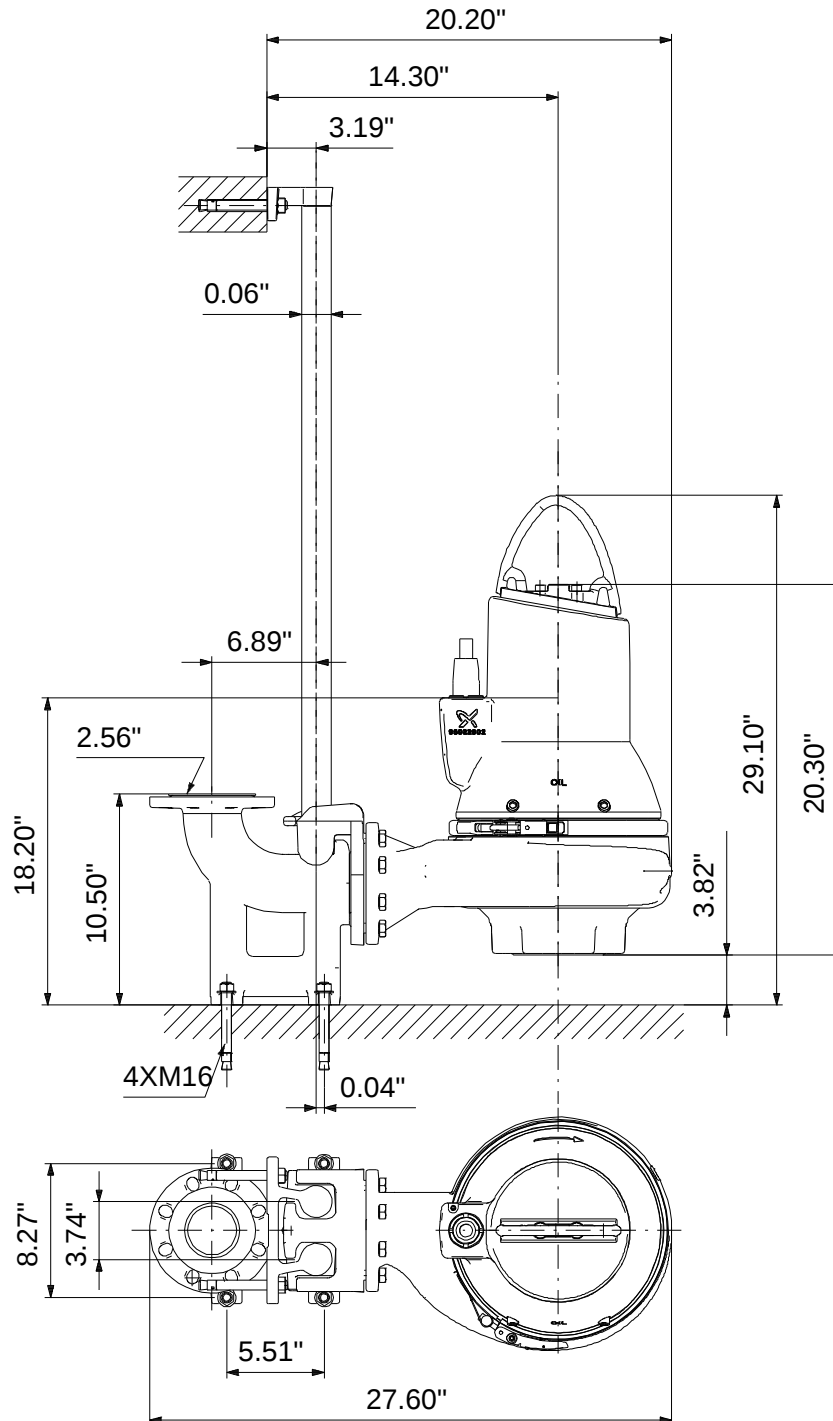
| Description                   | Value                       |
|-------------------------------|-----------------------------|
| Motor efficiency at 3/4 load: | 85.2 %                      |
| Motor efficiency at 1/2 load: | 84 %                        |
| Number of poles:              | 2                           |
| Start. method:                | star/delta                  |
| Enclosure class (IEC 34-5):   | IP68                        |
| Insulation class (IEC 85):    | H                           |
| Explosion proof:              | yes                         |
| Motor protection:             | THERMAL SWITCH              |
| Length of cable:              | 49 ft                       |
| Cable type:                   | SEOOW 600V                  |
| <b>Controls:</b>              |                             |
| Control box:                  | not included                |
| Moisture sensor:              | with moisture sensors       |
| Water-in-oil sensor:          | without water-in-oil sensor |
| <b>Others:</b>                |                             |
| Net weight:                   | 151 lb                      |
| Country of origin:            | US                          |
| Custom tariff no.:            | 8413.70.21                  |

## 99030117 SL1.20.A25.30.EX.2.61R.C 60 Hz



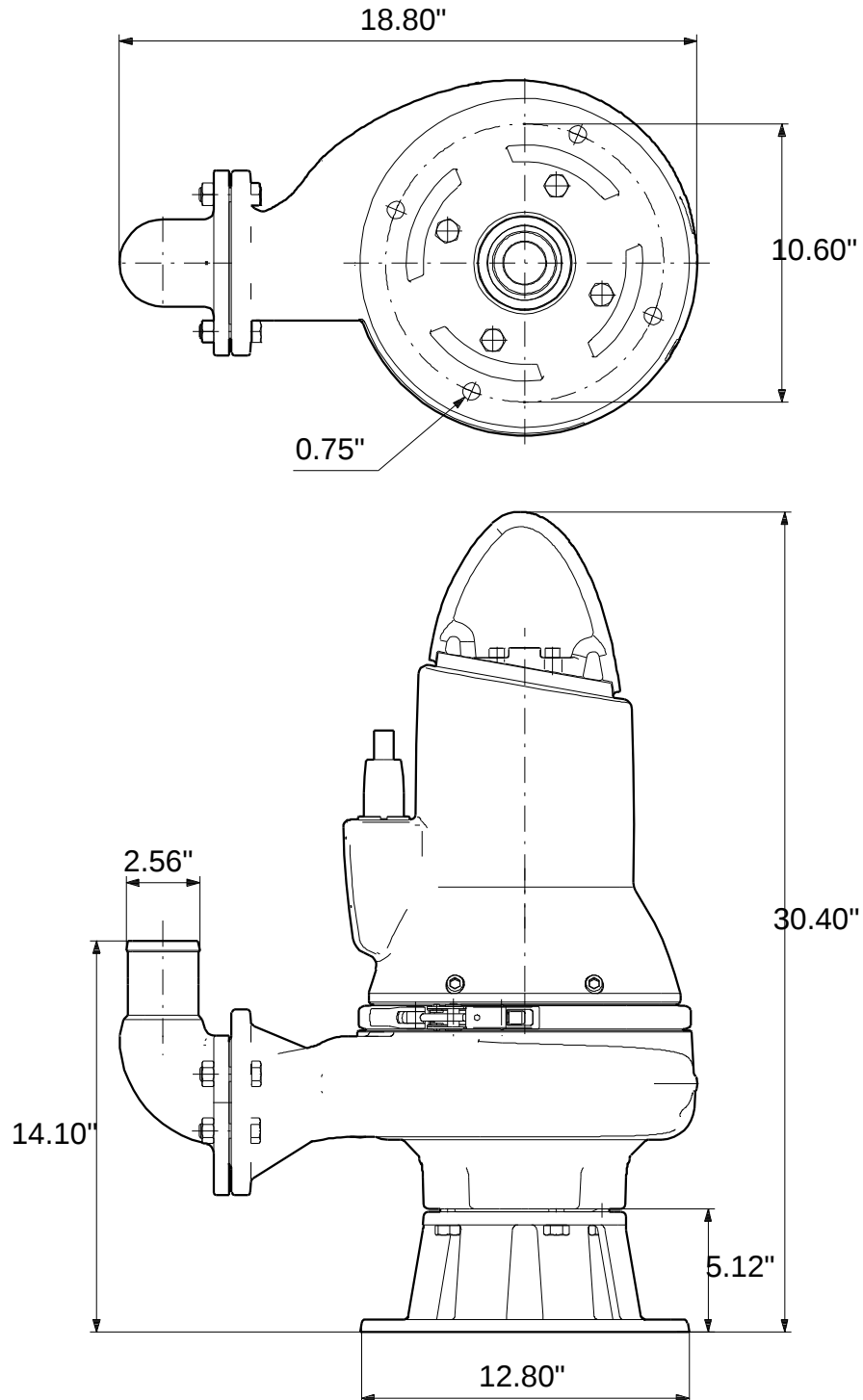
Note! All units are in [in] unless otherwise stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

## 99030117 SL1.20.A25.30.EX.2.61R.C 60 Hz



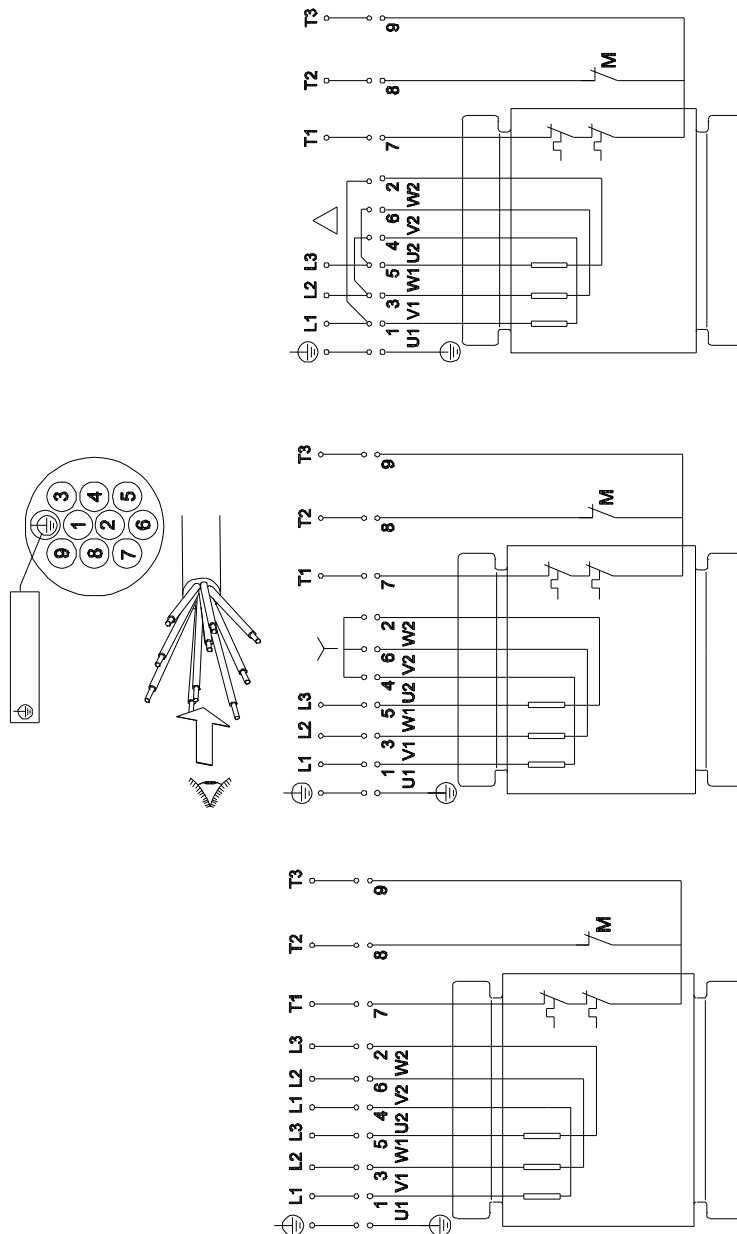
Note! All units are in [in] unless otherwise stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

## 99030117 SL1.20.A25.30.EX.2.61R.C 60 Hz



Note! All units are in [in] unless otherwise stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

## 99030117 SL1.20.A25.30.EX.2.61R.C 60 Hz



All units are [in] unless otherwise presented.