

Submittal Data

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

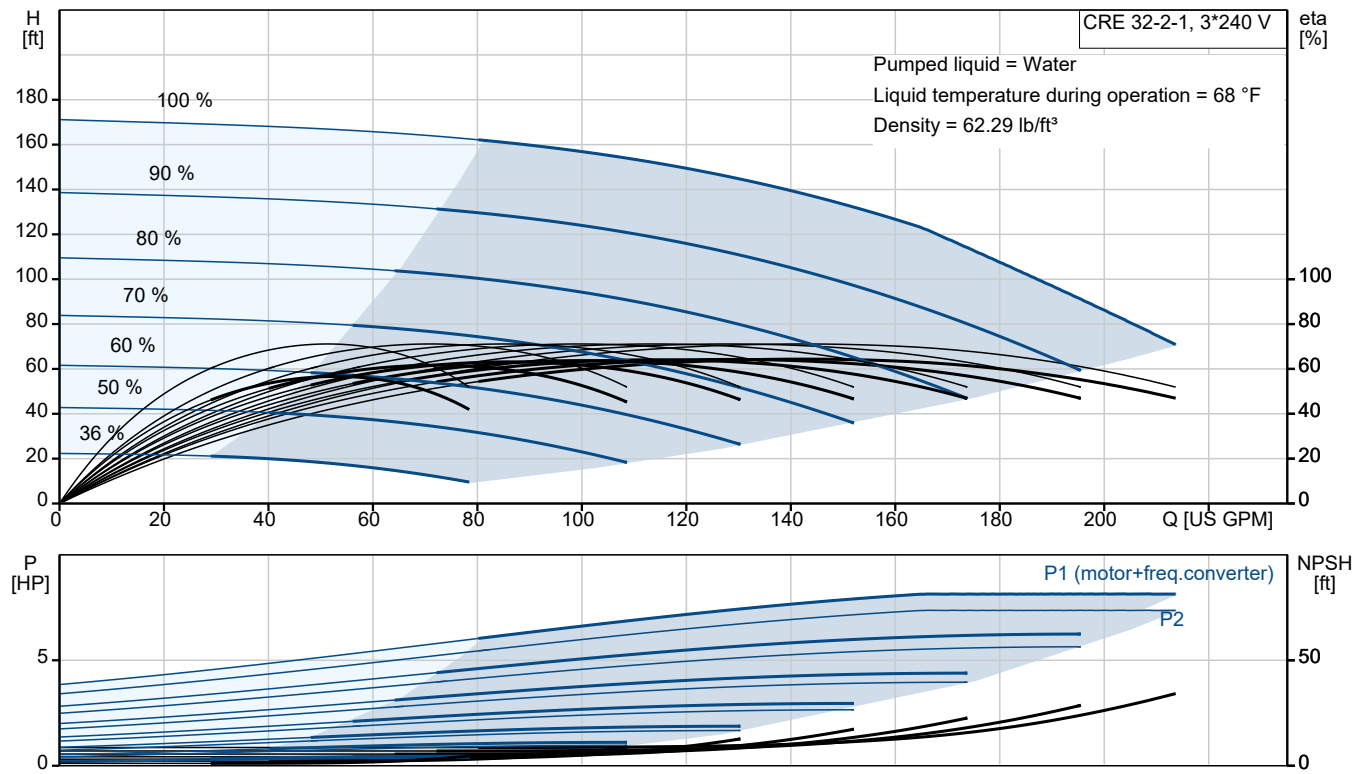


CRE 32-2-1 N-G-A-E-HQQE

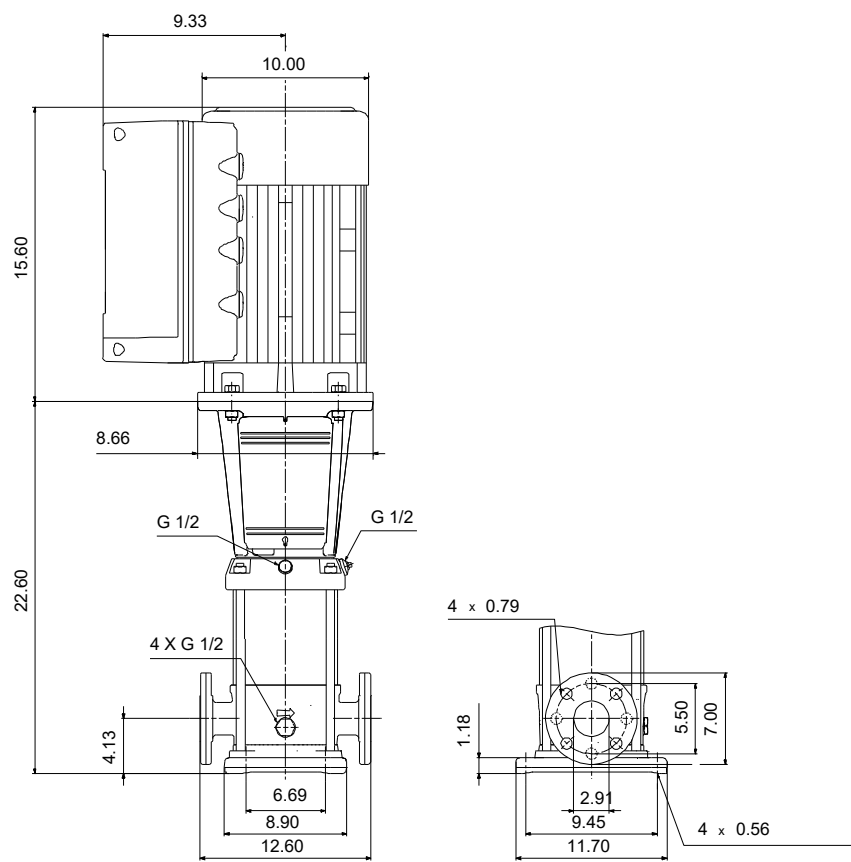
Vertical, multistage centrifugal pump with integrated frequency converter. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

Note! Product picture may differ from actual product

| Conditions of Service   | Pump Data                                     | Motor Data               |
|-------------------------|-----------------------------------------------|--------------------------|
| Liquid: Water           | Max pressure at stated temp: 232 psi / 250 °F | Rated power - P2: 7.5 HP |
| Temperature: 68 °F      | Liquid temperature range: -22 .. 248 °F       | Rated voltage: 200-240 V |
| Specific Gravity: 1.000 | Maximum ambient temperature: 104 °F           | Mains frequency: 60 Hz   |
|                         | Shaft seal: HQQE                              | Enclosure class: IP55    |
|                         | Product number: 99392748                      | Insulation class: F      |
|                         |                                               | Motor protection: ELEC   |
|                         |                                               | Motor type: 132F         |
|                         |                                               | Eta 1/1: 89.5 %          |



# Submittal Data



**Materials:**

Base: Cast iron  
EN 1563 EN-GJS-500-7  
ASTM A536 80-55-06

Impeller: Stainless steel  
AISI 304  
EN 1.4301

Material code: A  
Code for rubber: E

| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p><b>CRE 32-2-1 N-G-A-E-HQQE</b></p>  <p>Note! Product picture may differ from actual product</p> <p>Product No.: <a href="#">99392748</a></p> <p>Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via ANSI flanges.</p> <p>The pump is fitted with a 3-phase, fan-cooled, permanent-magnet, synchronous motor. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.</p> <p>The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement. The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.</p> <p>The display gives an intuitive and user-friendly interface to all functions.</p> <p>The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop".</p> <p>The Grundfos Eye indicator on the operating panel provides visual indication of pump status:</p> <ul style="list-style-type: none"> <li>• "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)</li> <li>• "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)</li> <li>• "Alarm": Motor has stopped (flashing red indicator lights).</li> </ul> <p>Communication with the pump is also possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".</p> <p>The terminal box has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:</p> <ul style="list-style-type: none"> <li>• two dedicated digital inputs</li> <li>• three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V</li> <li>• Safe Torque Off (STO) SIL3</li> <li>• 5 V voltage supply to potentiometer and sensor</li> <li>• one analog output, 0-10 V, 0(4)-20 mA</li> <li>• two configurable digital inputs or open-collector outputs</li> <li>• two Pt100/Pt1000 inputs</li> <li>• LiqTec, dry-running protection sensor input</li> <li>• Grundfos Digital Sensor input and output</li> <li>• 24 V voltage supply for sensors</li> <li>• two signal-relay outputs (potential-free contacts)</li> <li>• GENIbus connection</li> <li>• Modbus RTU integrated</li> <li>• Bluetooth for Grundfos GO app</li> <li>• Ethernet for direct Grundfos GO Link and Grundfos clouds</li> <li>• interface for Grundfos CIM fieldbus module.</li> </ul> <p>Liquid:<br/>Pumped liquid: Water</p> |



Company name:

Created by:

Phone:

Date:

12/07/2026

| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p>Liquid temperature range: -22 .. 248 °F<br/>Selected liquid temperature: 68 °F<br/>Density: 62.29 lb/ft<sup>3</sup></p> <p>Technical:<br/>Pump speed on which pump data are based: 3467 rpm<br/>Rated flow: 159 US GPM<br/>Rated head: 124.3 ft<br/>Actual impeller diameter: 4.66 in<br/>Pump orientation: Vertical<br/>Shaft seal arrangement: Single<br/>Primary shaft seal: HQQE<br/>Code for shaft seal: HQQE<br/>Approvals: CE,UKCA,SEPRO,RCM,<br/>Approvals for drinking water: NSF/ANSI 61<br/>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:<br/>Type key, code for materials: A<br/>Type key, code for rubber components. E = EPDM, V=FKM: E<br/>Base: Cast iron<br/>EN 1563 EN-GJS-500-7<br/>ASTM A536 80-55-06<br/>Impeller: Stainless steel<br/>EN 1.4301<br/>AISI 304<br/>Bearing: SIC<br/>Support bearing: Graflon</p> <p>Installation:<br/>Maximum ambient temperature: 104 °F<br/>Maximum operating pressure: 232.06 psi<br/>Max pressure at stated temp: 232 psi / 250 °F<br/>232 psi / -22 °F<br/>Type of connection: ANSI<br/>Size of inlet connection: 2 1/2 inch<br/>Size of outlet connection: 2 1/2 inch<br/>Pressure rating for connection: PN 16<br/>Flange rating inlet: 150 lb<br/>Flange size for motor: 213TC<br/>Terminal box position: 6</p> <p>Electrical data:<br/>Motor standard: NEMA<br/>Motor type: 132F<br/>Rated power - P2: 7.5 HP<br/>Power (P2) required by pump: 7.5 HP<br/>Over/undersize motor: Standard motor size</p> |



Company name:

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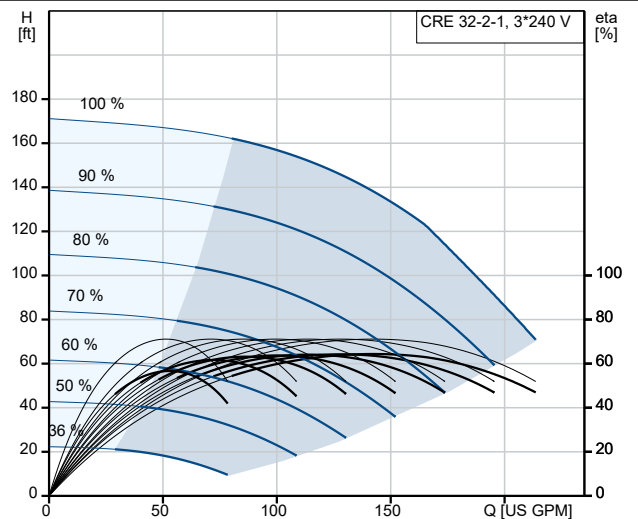
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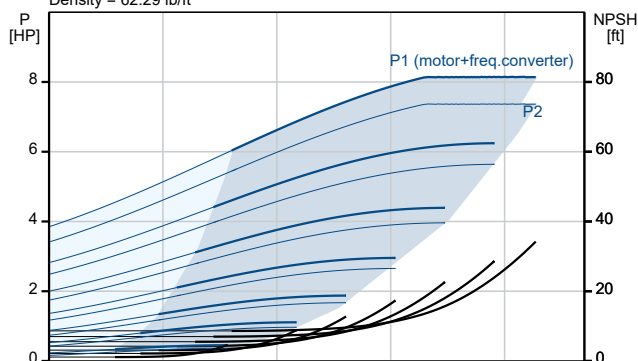
12/07/2026

| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <div>Mains frequency: 60 Hz</div> <div>Rated voltage: 3 x 200-240 V</div> <div>Service factor: 1.15</div> <div>Rated current: 20.0-16.6 A</div> <div>Cos phi - power factor: 0.94</div> <div>Rated speed: 360-4000 rpm</div> <div>IE Efficiency class: IE5</div> <div>Motor efficiency at full load: 89.5 %</div> <div>Enclosure class (IEC 34-5): IP55</div> <div>Insulation class (IEC 85): F</div> <div>Motor No: 93051308</div> <div>Controls:</div> <div>Terminal box position: 6</div> <div>Frequency converter: Built-in</div> <div>Pressure sensor: Y</div> <div>Others:</div> <div>DOE Pump Energy Index VL: 0.39</div> <div>Net weight: 194 lb</div> <div>Gross weight: 212 lb</div> <div>Shipping volume: 17.5 ft³</div> <div>Country of origin: US</div> <div>Custom tariff no.: 8413.70.2040</div> |

| Description                                            | Value                                                   |
|--------------------------------------------------------|---------------------------------------------------------|
| <b>General information:</b>                            |                                                         |
| Product name:                                          | CRE 32-2-1<br>N-G-A-E-HQQE                              |
| Product No:                                            | 99392748                                                |
| EAN number:                                            | 5713828380760                                           |
| Price:                                                 |                                                         |
| <b>Technical:</b>                                      |                                                         |
| Pump speed on which pump data are based:               | 3467 rpm                                                |
| Rated flow:                                            | 159 US GPM                                              |
| Rated head:                                            | 124.3 ft                                                |
| Maximum head:                                          | 168.6 ft                                                |
| Actual impeller diameter:                              | 4.66 in                                                 |
| Stages:                                                | 2                                                       |
| Impellers:                                             | 2                                                       |
| Number of reduced-diameter impellers:                  | 1                                                       |
| Low NPSH:                                              | N                                                       |
| Pump orientation:                                      | Vertical                                                |
| Shaft seal arrangement:                                | Single                                                  |
| Primary shaft seal:                                    | HQQE                                                    |
| Code for shaft seal:                                   | HQQE                                                    |
| Approvals:                                             | CE,UKCA,SEPRO,RCM,                                      |
| Approvals for drinking water:                          | NSF/ANSI 61                                             |
| Curve tolerance:                                       | ISO9906:2012 3B                                         |
| Pump version:                                          | N                                                       |
| Model:                                                 | B                                                       |
| Pump type:                                             | CRE                                                     |
| <b>Materials:</b>                                      |                                                         |
| Type key, code for materials:                          | A                                                       |
| Type key, code for rubber components. E = EPDM, V=FKM: | E                                                       |
| Base:                                                  | Cast iron<br>EN 1563 EN-GJS-500-7<br>ASTM A536 80-55-06 |
| Impeller:                                              | Stainless steel<br>EN 1.4301<br>AISI 304                |
| Material code:                                         | A                                                       |
| Code for rubber:                                       | E                                                       |
| Bearing:                                               | SIC                                                     |
| Support bearing:                                       | Graflon                                                 |
| <b>Installation:</b>                                   |                                                         |
| Maximum ambient temperature:                           | 104 °F                                                  |
| Maximum operating pressure:                            | 232.06 psi                                              |
| Max pressure at stated temp:                           | 232 psi / 250 °F<br>232 psi / -22 °F                    |
| Type key, code for pipework connection:                | G                                                       |
| Type of connection:                                    | ANSI                                                    |
| Size of inlet connection:                              | 2 1/2 inch                                              |
| Size of outlet connection:                             | 2 1/2 inch                                              |
| Pressure rating for connection:                        | PN 16                                                   |
| Flange rating inlet:                                   | 150 lb                                                  |
| Flange size for motor:                                 | 213TC                                                   |
| Terminal box position:                                 | 6                                                       |
| Connect code:                                          | G                                                       |
| <b>Liquid:</b>                                         |                                                         |



Pumped liquid = Water  
Liquid temperature during operation = 68 °F  
Density = 62.29 lb/ft³





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| Description                    | Value                    |
|--------------------------------|--------------------------|
| Pumped liquid:                 | Water                    |
| Liquid temperature range:      | -22 .. 248 °F            |
| Selected liquid temperature:   | 68 °F                    |
| Density:                       | 62.29 lb/ft³             |
| <b>Electrical data:</b>        |                          |
| Motor standard:                | NEMA                     |
| Motor type:                    | 132F                     |
| Rated power - P2:              | 7.5 HP                   |
| Power (P2) required by pump:   | 7.5 HP                   |
| Over/undersize motor:          | Standard motor size      |
| Mains frequency:               | 60 Hz                    |
| Rated voltage:                 | 3 x 200-240 V            |
| Service factor:                | 1.15                     |
| Rated current:                 | 20.0-16.6 A              |
| Cos phi - power factor:        | 0.94                     |
| Rated speed:                   | 360-4000 rpm             |
| IE Efficiency class:           | IE5                      |
| Motor efficiency at full load: | 89.5 %                   |
| Enclosure class (IEC 34-5):    | IP55                     |
| Insulation class (IEC 85):     | F                        |
| Built-in motor protection:     | ELEC                     |
| Motor No:                      | <a href="#">93051308</a> |
| <b>Controls:</b>               |                          |
| Control panel:                 | Graphical                |
| Function Module:               | FM310 - Advanced         |
| Terminal box position:         | 6                        |
| Frequency converter:           | Built-in                 |
| Pressure sensor:               | Y                        |
| <b>Others:</b>                 |                          |
| DOE Pump Energy Index VL:      | 0.39                     |
| Net weight:                    | 194 lb                   |
| Gross weight:                  | 212 lb                   |
| Shipping volume:               | 17.5 ft³                 |
| Config. file no:               | 99303467                 |
| Country of origin:             | US                       |
| Custom tariff no.:             | 8413.70.2040             |