

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

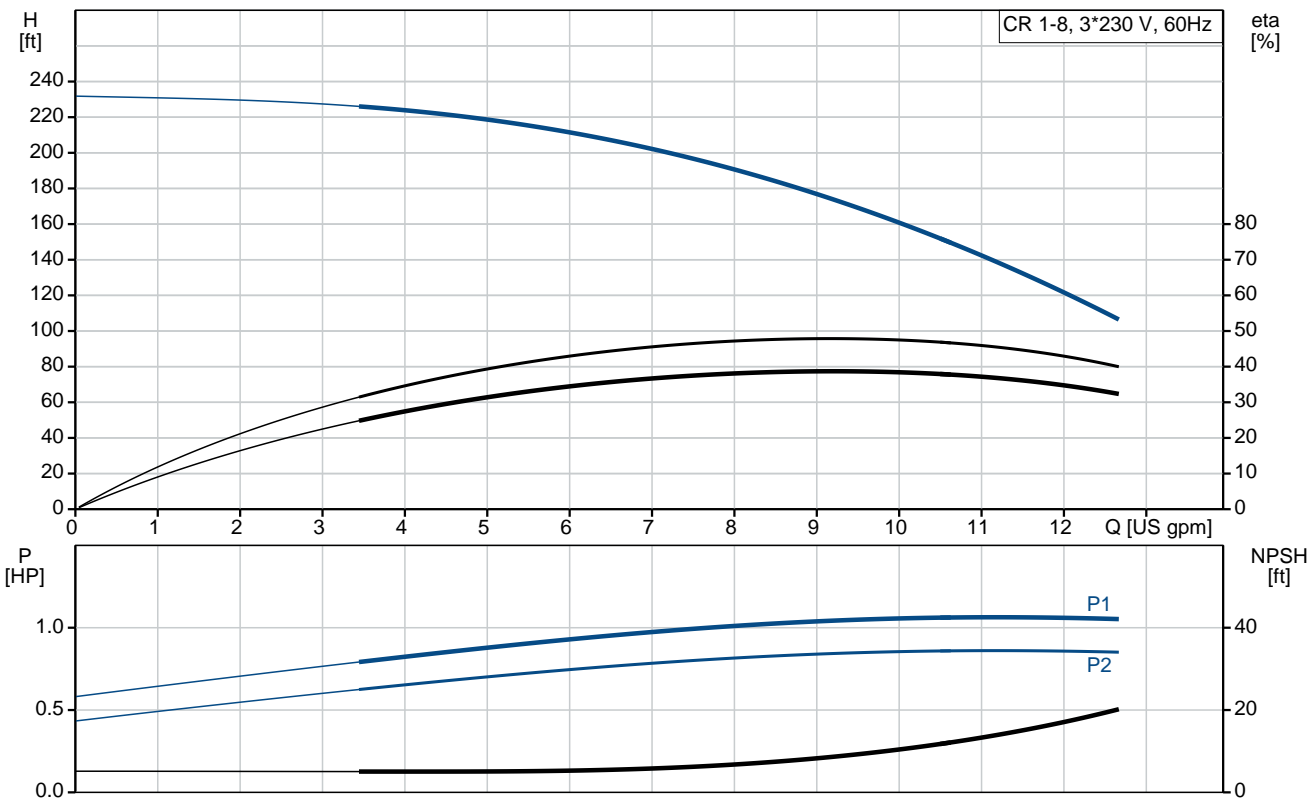


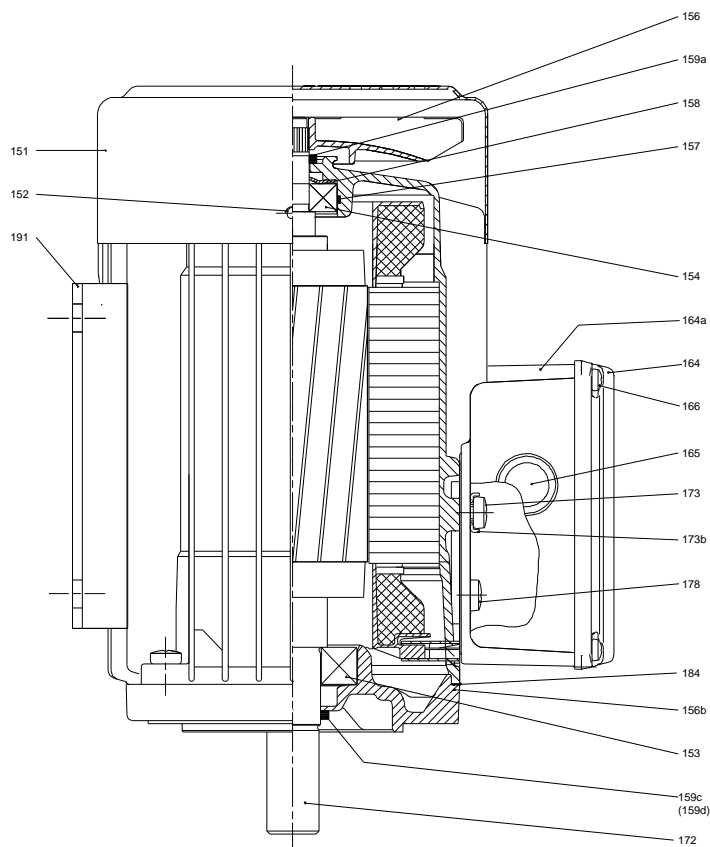
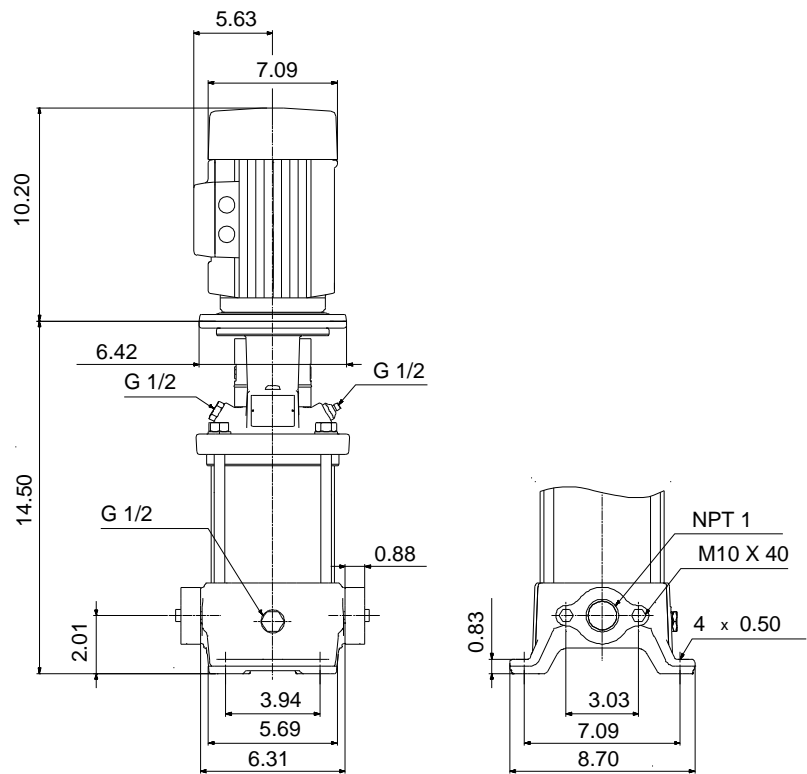
CR 1-8 A-B-A-V-HQQV

Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron. All other wetted parts are in stainless steel (EN 1.4301)(AISI 304)

Product photo could vary from the actual product


| Conditions of Service | Pump Data | Motor Data |
|-------------------------|--|----------------------------------|
| Flow: _____ | Max pressure at stated temperature: 232 psi / 194 °F | Rated power - P2: 1 HP |
| Head: _____ | Liquid temperature range: -4 .. 194 °F | Rated voltage: 208-230YY/460Y V |
| Efficiency: _____ | Maximum ambient temperature: 140 °F | Main frequency: 60 Hz |
| Liquid: Water | Approvals: CURUS | Enclosure class: 55 Dust/Jetting |
| Temperature: 68 °F | Shaft seal: HQQV | Insulation class: F |
| NPSH required: ft | Product number: 96082048 | Motor protection: NONE |
| Viscosity: _____ | | Motor type: 71BB |
| Specific Gravity: 1.000 | | Motor_efficiency: 80.0 % |





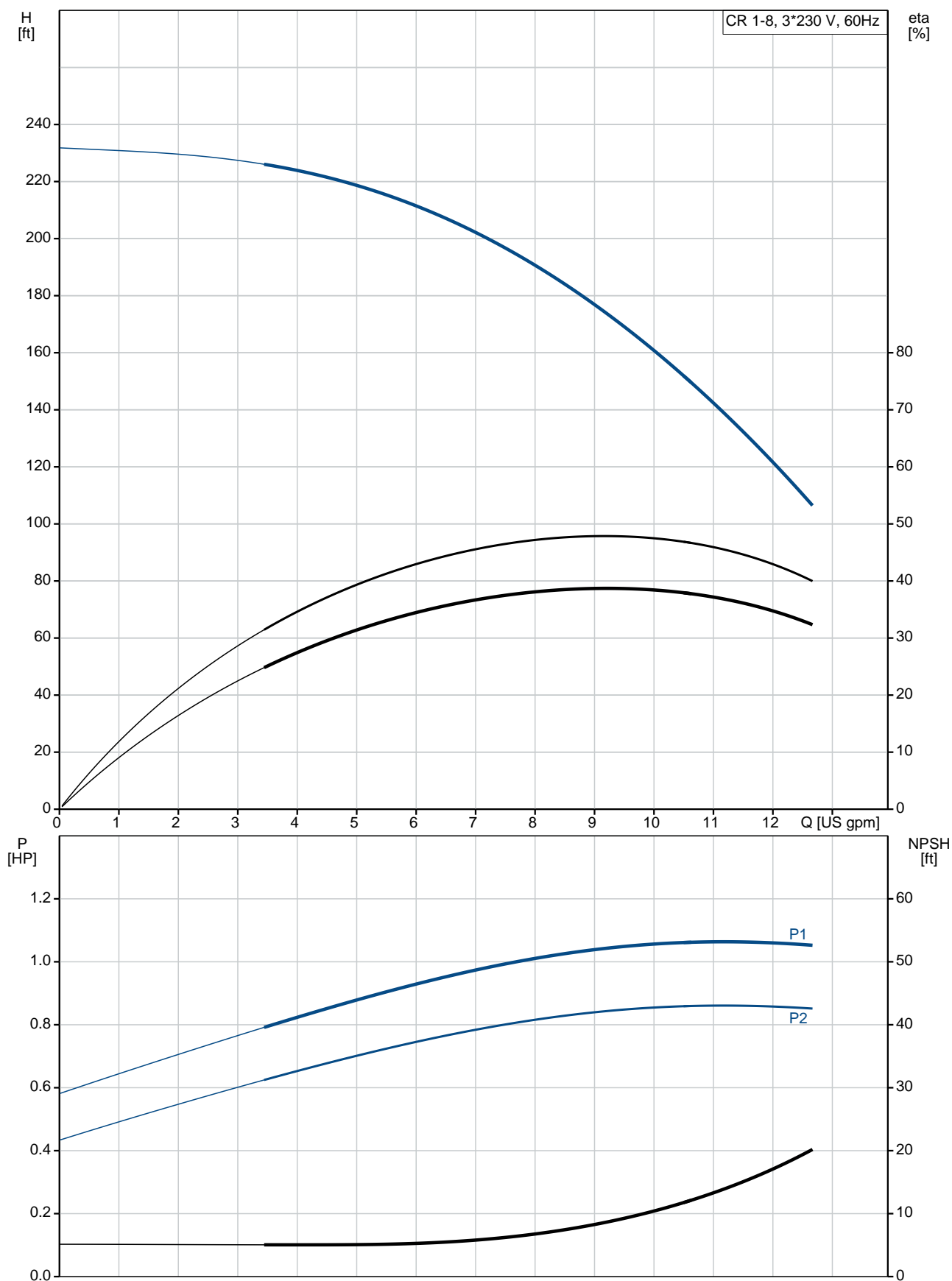
Materials:

| | |
|------------------|---|
| Base: | Cast iron EN 1561 EN-GJL-200 ASTM A48-25B |
| Impeller: | Stainless steel AISI 304 EN 1.4301 |
| Material code: | A |
| Code for rubber: | V |

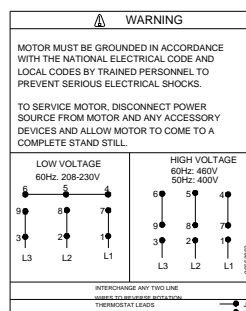
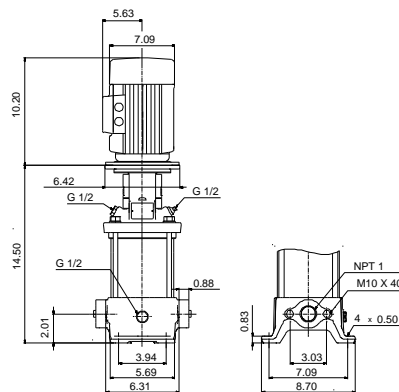
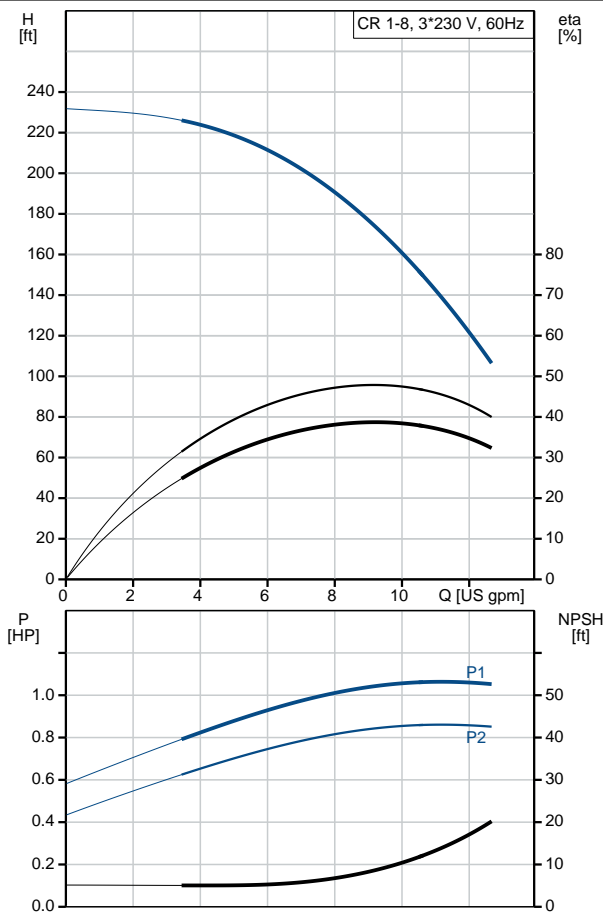
| Count | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|----------------|-------|---------------------------|--------------|------------------------------|-------|----------|--------------|-------------------|----------|-------------|-------------|-------------|----------|-------------------|----------|-------------------------|--------|----------------------|------|-------------------------|-------|------------------|-----------------|-------|---|-----------|--|----------|-----|------------------------------|--------|-----------------------------|------------|-------------------------------------|-------------------------------------|---------------------|---------------|-----------------------|--------|----------------------|--------|---------------------------------|-------|------------------------|-----|-----------------|------|-------------|------|
| 1 | <p>CR 1-8 A-B-A-V-HQQV</p>  <p>Product No.: 96082048</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 oval flanges with internal NPT threads.</p> <p>The pump is fitted with a 3-phase, fan-cooled asynchronous motor.</p> <p>Liquid:</p> <table> <tr> <td>Pumped liquid:</td><td>Water</td></tr> <tr> <td>Liquid temperature range:</td><td>-4 .. 194 °F</td></tr> <tr> <td>Selected liquid temperature:</td><td>68 °F</td></tr> <tr> <td>Density:</td><td>62.29 lb/ft³</td></tr> </table> <p>Technical:</p> <table> <tr> <td>Rated pump speed:</td><td>3484 rpm</td></tr> <tr> <td>Rated flow:</td><td>9.69 US gpm</td></tr> <tr> <td>Rated head:</td><td>170.9 ft</td></tr> <tr> <td>Pump orientation:</td><td>Vertical</td></tr> <tr> <td>Shaft seal arrangement:</td><td>Single</td></tr> <tr> <td>Code for shaft seal:</td><td>HQQV</td></tr> <tr> <td>Approvals on nameplate:</td><td>CURUS</td></tr> <tr> <td>Curve tolerance:</td><td>ISO9906:2012 3B</td></tr> </table> <p>Materials:</p> <table> <tr> <td>Base:</td><td>Cast iron EN 1561 EN-GJL-200 ASTM A48-25B</td></tr> <tr> <td>Impeller:</td><td>Stainless steel EN 1.4301 AISI 304</td></tr> <tr> <td>Bearing:</td><td>SIC</td></tr> </table> <p>Installation:</p> <table> <tr> <td>Maximum ambient temperature:</td><td>140 °F</td></tr> <tr> <td>Maximum operating pressure:</td><td>232.06 psi</td></tr> <tr> <td>Max pressure at stated temperature:</td><td>232 psi / 194 °F 232 psi / -4 °F</td></tr> <tr> <td>Type of connection:</td><td>Oval / NPT(F)</td></tr> <tr> <td>Size of suction port:</td><td>1 inch</td></tr> <tr> <td>Size of outlet port:</td><td>1 inch</td></tr> <tr> <td>Pressure rating for connection:</td><td>PN 16</td></tr> <tr> <td>Flange size for motor:</td><td>56C</td></tr> </table> <p>Electrical data:</p> <table> <tr> <td>Motor standard:</td><td>NEMA</td></tr> <tr> <td>Motor type:</td><td>71BB</td></tr> </table> | Pumped liquid: | Water | Liquid temperature range: | -4 .. 194 °F | Selected liquid temperature: | 68 °F | Density: | 62.29 lb/ft³ | Rated pump speed: | 3484 rpm | Rated flow: | 9.69 US gpm | Rated head: | 170.9 ft | Pump orientation: | Vertical | Shaft seal arrangement: | Single | Code for shaft seal: | HQQV | Approvals on nameplate: | CURUS | Curve tolerance: | ISO9906:2012 3B | Base: | Cast iron EN 1561 EN-GJL-200 ASTM A48-25B | Impeller: | Stainless steel EN 1.4301 AISI 304 | Bearing: | SIC | Maximum ambient temperature: | 140 °F | Maximum operating pressure: | 232.06 psi | Max pressure at stated temperature: | 232 psi / 194 °F 232 psi / -4 °F | Type of connection: | Oval / NPT(F) | Size of suction port: | 1 inch | Size of outlet port: | 1 inch | Pressure rating for connection: | PN 16 | Flange size for motor: | 56C | Motor standard: | NEMA | Motor type: | 71BB |
| Pumped liquid: | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liquid temperature range: | -4 .. 194 °F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Selected liquid temperature: | 68 °F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Density: | 62.29 lb/ft³ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated pump speed: | 3484 rpm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated flow: | 9.69 US gpm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated head: | 170.9 ft | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pump orientation: | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shaft seal arrangement: | Single | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code for shaft seal: | HQQV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approvals on nameplate: | CURUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Curve tolerance: | ISO9906:2012 3B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base: | Cast iron EN 1561 EN-GJL-200 ASTM A48-25B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Impeller: | Stainless steel EN 1.4301 AISI 304 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bearing: | SIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum ambient temperature: | 140 °F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum operating pressure: | 232.06 psi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max pressure at stated temperature: | 232 psi / 194 °F 232 psi / -4 °F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type of connection: | Oval / NPT(F) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Size of suction port: | 1 inch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Size of outlet port: | 1 inch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pressure rating for connection: | PN 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flange size for motor: | 56C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor standard: | NEMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor type: | 71BB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Count | Description |
|-------|---|
| | <p>IE Efficiency class: NEMA Premium / IE3 60Hz</p> <p>Rated power - P2: 1 HP</p> <p>Power (P2) required by pump: 1 HP</p> <p>Main frequency: 60 Hz</p> <p>Rated voltage: 3 x 208-230YY/460Y V</p> <p>Service factor: 1.25</p> <p>Rated current: 3,25-3,35/1,68 A</p> <p>Starting current: 590-650 %</p> <p>Cos phi - power factor: 0.81-0.72</p> <p>Rated speed: 3430-3460 rpm</p> <p>IE efficiency: IE3 77,0%</p> <p>Motor efficiency at full load: 80.0 %</p> <p>Motor efficiency at 3/4 load: 79.5 %</p> <p>Motor efficiency at 1/2 load: 75.0 %</p> <p>Number of poles: 2</p> <p>Enclosure class (IEC 34-5): 55 Dust/Jetting</p> <p>Insulation class (IEC 85): F</p> <p>Motor Number: 85900703</p> <p>Controls:</p> <p>Frequency converter: NONE</p> <p>Others:</p> <p>Net weight: 51.3 lb</p> <p>Gross weight: 62.3 lb</p> <p>Shipping volume: 4.94 ft³</p> <p>Country of origin: US</p> <p>Custom tariff no.: 8413.70.2040</p> |

96082048 CR 1-8 A-B-A-V-HQQV 60 Hz



| Description | Value |
|---------------------------------------|-------------------------|
| General information: | |
| Product name: | CR 1-8 A-B-A-V-HQQV |
| Product No.: | 96082048 |
| EAN: | 5700395167863 |
| | 5700395167863 |
| Technical: | |
| Rated pump speed: | 3484 rpm |
| Rated flow: | 9.69 US gpm |
| Rated head: | 170.9 ft |
| Maximum head: | 232.3 ft |
| Stages: | 8 |
| Impellers: | 8 |
| Number of reduced-diameter impellers: | 0 |
| Low NPSH: | N |
| Pump orientation: | Vertical |
| Shaft seal arrangement: | Single |
| Code for shaft seal: | HQQV |
| Approvals on nameplate: | CURUS |
| Curve tolerance: | ISO9906:2012 3B |
| Pump version: | A |
| Model: | A |
| Cooling: | TEFC |
| Materials: | |
| Base: | Cast iron |
| | EN 1561 EN-GJL-200 |
| | ASTM A48-25B |
| Impeller: | Stainless steel |
| | EN 1.4301 |
| | AISI 304 |
| Material code: | A |
| Code for rubber: | V |
| Bearing: | SIC |
| Installation: | |
| Maximum ambient temperature: | 140 °F |
| Maximum operating pressure: | 232.06 psi |
| Max pressure at stated temperature: | 232 psi / -4 °F |
| | 232 psi / -4 °F |
| Type of connection: | Oval / NPT(F) |
| Size of suction port: | 1 inch |
| Size of outlet port: | 1 inch |
| Pressure rating for connection: | PN 16 |
| Flange size for motor: | 56C |
| Connect code: | B |
| Liquid: | |
| Pumped liquid: | Water |
| Liquid temperature range: | -4 .. 194 °F |
| Selected liquid temperature: | 68 °F |
| Density: | 62.29 lb/ft³ |
| Electrical data: | |
| Motor standard: | NEMA |
| Motor type: | 71BB |
| IE Efficiency class: | NEMA Premium / IE3 60Hz |
| Rated power - P2: | 1 HP |
| Power (P2) required by pump: | 1 HP |
| Main frequency: | 60 Hz |
| Rated voltage: | 3 x 208-230YY/460Y V |
| Service factor: | 1.25 |





Company name:

Created by:

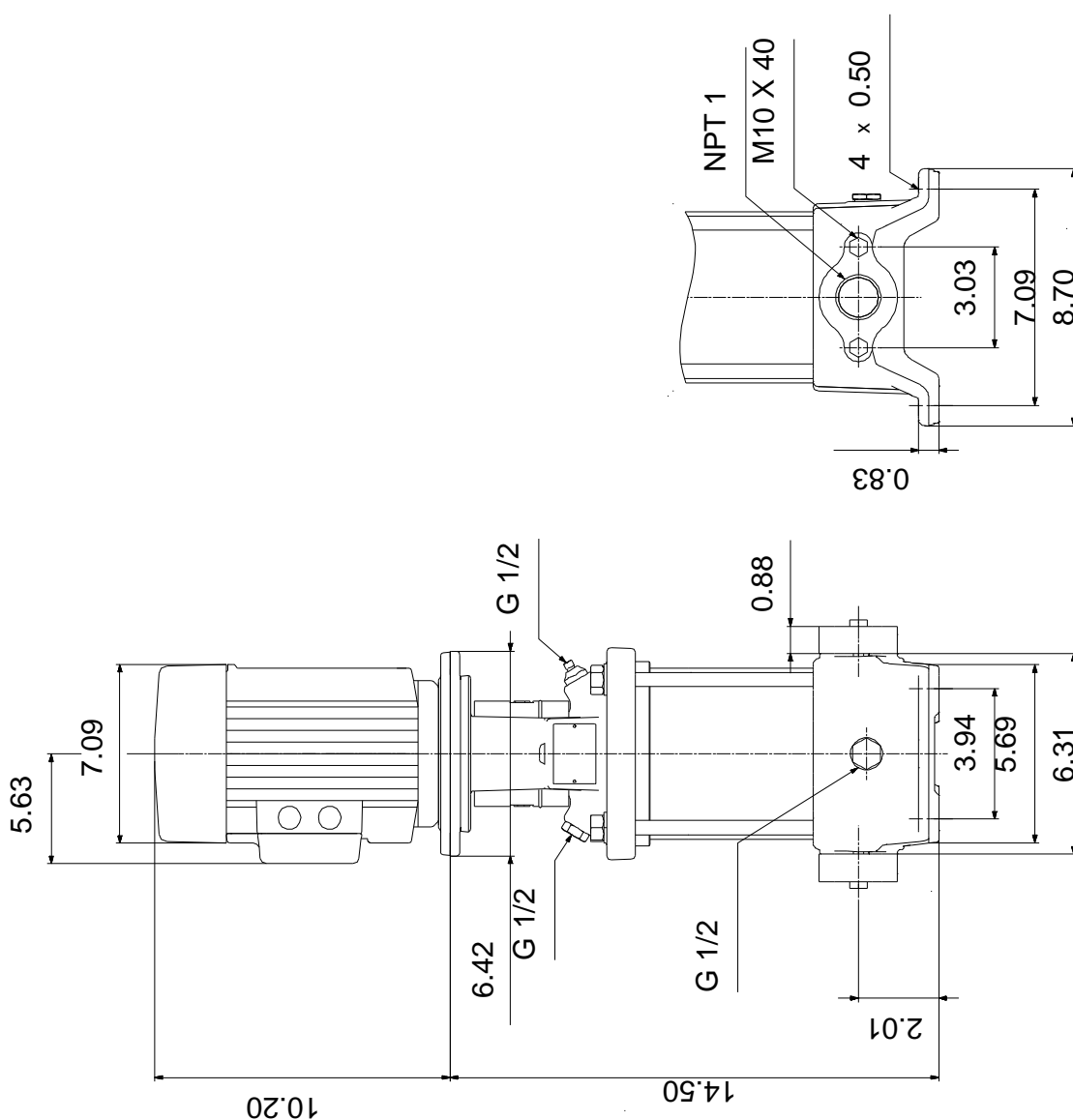
Phone:

Date:

4/20/2020

| Description | Value |
|--------------------------------|----------------------|
| Rated current: | 3,25-3,35/1,68 A |
| Starting current: | 590-650 % |
| Load current: | 4,0-3,9/1,95 A |
| Cos phi - power factor: | 0.81-0.72 |
| Rated speed: | 3430-3460 rpm |
| IE efficiency: | IE3 77,0% |
| Motor efficiency at full load: | 80.0 % |
| Motor efficiency at 3/4 load: | 79.5 % |
| Motor efficiency at 1/2 load: | 75.0 % |
| Number of poles: | 2 |
| Enclosure class (IEC 34-5): | 55 Dust/Jetting |
| Insulation class (IEC 85): | F |
| Motor protection: | NONE |
| Motor Number: | 85900703 |
| Controls: | |
| Frequency converter: | NONE |
| Others: | |
| Net weight: | 51.3 lb |
| Gross weight: | 62.3 lb |
| Shipping volume: | 4.94 ft ³ |
| Country of origin: | US |
| Custom tariff no.: | 8413.70.2040 |

96082048 CR 1-8 A-B-A-V-HQQV 60 Hz



Note! All units are in [in] unless otherwise stated.

Disclaimer: This simplified dimensional drawing does not show all details.

96082048 CR 1-8 A-B-A-V-HQQV 60 Hz

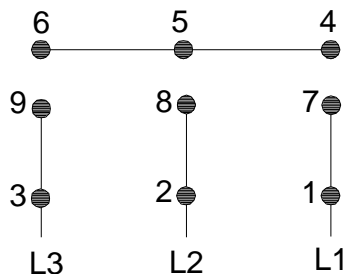


WARNING

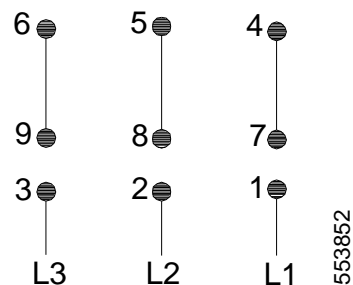
MOTOR MUST BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES BY TRAINED PERSONNEL TO PREVENT SERIOUS ELECTRICAL SHOCKS.

TO SERVICE MOTOR, DISCONNECT POWER SOURCE FROM MOTOR AND ANY ACCESSORY DEVICES AND ALLOW MOTOR TO COME TO A COMPLETE STAND STILL.

LOW VOLTAGE 60Hz. 208-230V



HIGH VOLTAGE 60Hz: 460V 50Hz: 400V



INTERCHANGE ANY TWO LINE
WIRES TO REVERSE ROTATION

THERMOSTAT LEADS
(WHEN PROVIDED)

