

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

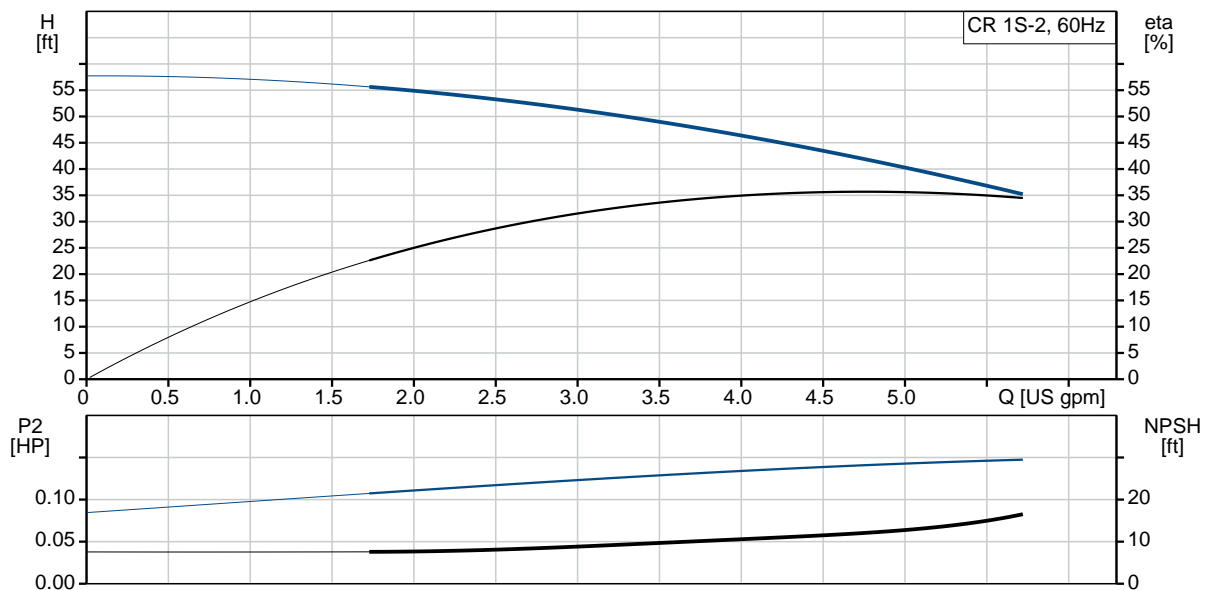


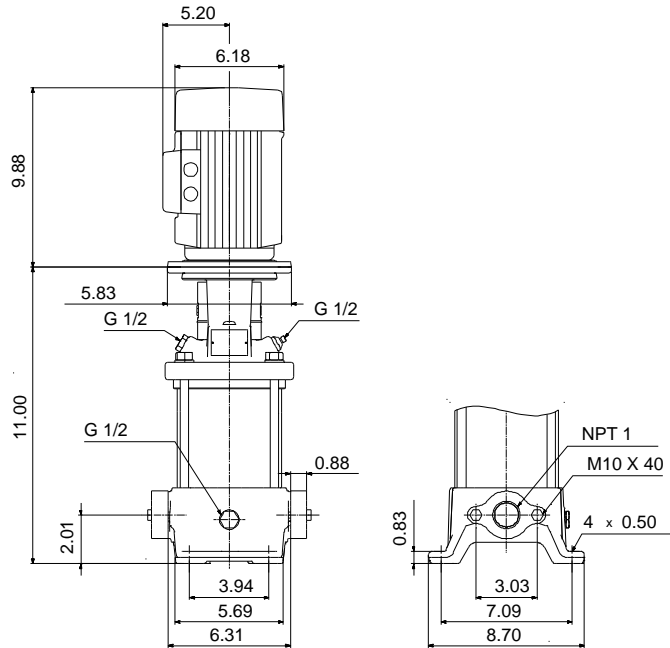
Product photo could vary from the actual product

### CR 1S-2 A-B-A-E-HQQE

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)


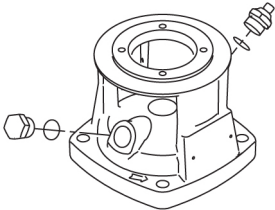
Conditions of Service	Pump Data	Motor Data
Efficiency: _____	Max pressure at stated temperature: 232 psi / 250 °F	Rated power - P2: 0.33 HP
Liquid: Water	Liquid temperature range: -4 .. 248 °F	Rated voltage: 115/230 V
Temperature: 68 °F	Maximum ambient temperature: 104 °F	Main frequency: 60 Hz
NPSH required: ft	Approvals: CURUS, NSF61	Insulation class: B
Specific Gravity: 1.000	Shaft seal: HQQE	Motor type: BALDOR
	Product number: 96080875	

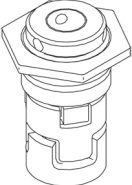
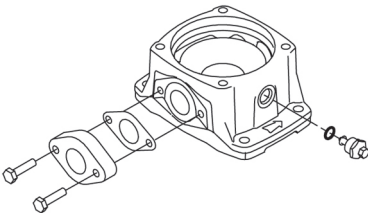




**Materials:**

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

Count	Description
1	<p><b>CR 1S-2 A-B-A-E-HQQE</b></p>  <p>Product No.: <a href="#">96080875</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. 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 1-phase, fan-cooled asynchronous motor.</p> <p><b>Further product details</b></p> <p>Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements:</p> <ol style="list-style-type: none"> <li>1) Alkaline-based cleaning.</li> <li>2) Zinc phosphating.</li> <li>3) Cathodic electro-deposition.</li> <li>4) Curing to a dry film thickness 18-22 my m.</li> </ol> <p>The colour code for the finished product is NCS 9000/RAL 9005.</p> <p><b>Pump</b></p> <p>The pump head, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.</p>  <p>The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.</p> <p>Primary seal:</p> <ul style="list-style-type: none"> <li>• Rotating seal ring material: silicon carbide (SiC)</li> <li>• Stationary seat material: silicon carbide (SiC)</li> </ul> <p>This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.</p>

Count	Description																								
	<p>Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.</p>  <p>The shaft seal is screwed into the pump head.</p> <p>The base is made of cast iron. The oval flanges are bolted to the base. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate.</p>  <p><b>Motor</b></p> <p>The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with tapped-hole flange (FT). Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II). Electrical tolerances comply with IEC 60034.</p> <p>The motor has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.</p> <p>As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.</p> <p><b>Technical data</b></p> <table> <tr> <td>Liquid:</td><td></td></tr> <tr> <td>Pumped liquid:</td><td>Water</td></tr> <tr> <td>Liquid temperature range:</td><td>-4 .. 248 °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> <table> <tr> <td>Technical:</td><td></td></tr> <tr> <td>Rated pump speed:</td><td>3436 rpm</td></tr> <tr> <td>Rated flow:</td><td>4.84 US gpm</td></tr> <tr> <td>Rated head:</td><td>41.34 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>HQQE</td></tr> </table>	Liquid:		Pumped liquid:	Water	Liquid temperature range:	-4 .. 248 °F	Selected liquid temperature:	68 °F	Density:	62.29 lb/ft³	Technical:		Rated pump speed:	3436 rpm	Rated flow:	4.84 US gpm	Rated head:	41.34 ft	Pump orientation:	Vertical	Shaft seal arrangement:	Single	Code for shaft seal:	HQQE
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Company name:

Created by:

Phone:

Date:

11/19/2020

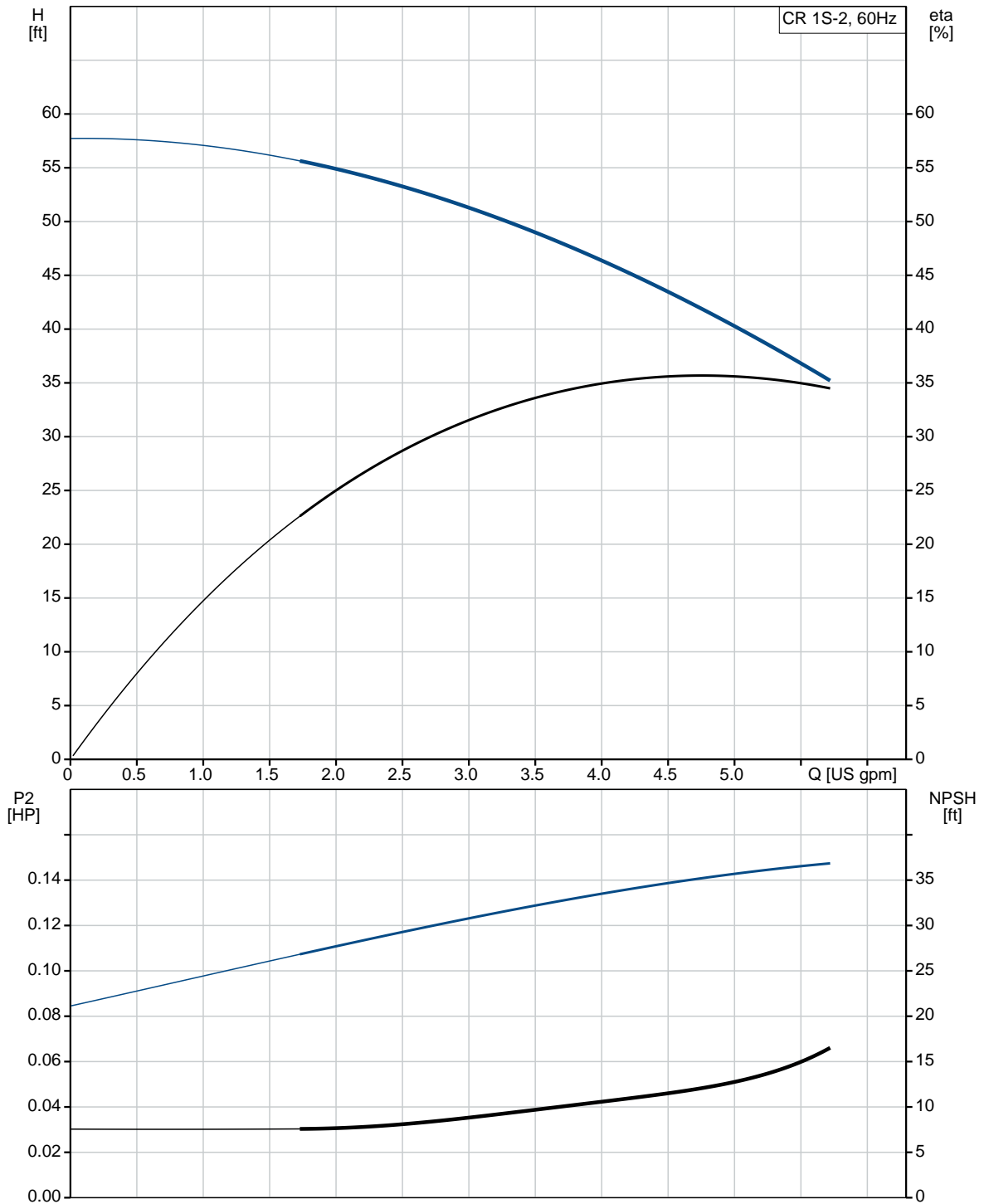
Count	Description
	Approvals on nameplate: CURUS,NSF61 Curve tolerance: ISO9906:2012 3B
	Materials: Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC
	Installation: Maximum ambient temperature: 104 °F Maximum operating pressure: 232.06 psi Max pressure at stated temperature: 232 psi / 250 °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
	Electrical data: Motor standard: NEMA Motor type: BALDOR Rated power - P2: 0.33 HP Power (P2) required by pump: 0.33 HP Main frequency: 60 Hz Rated voltage: 1 x 115/230 V Service factor: 1.35 Rated current: 6.00/3.00 A Rated speed: 3450 rpm IE efficiency: 58% Number of poles: 2 Insulation class (IEC 85): B Motor Number: 85680001
	Controls: Frequency converter: NONE
	Others: Net weight: 47.7 lb Gross weight: 58.7 lb Shipping volume: 4.94 ft³ Country of origin: US Custom tariff no.: 8413.70.2040



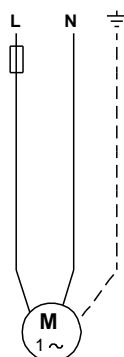
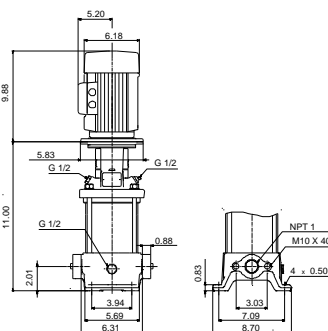
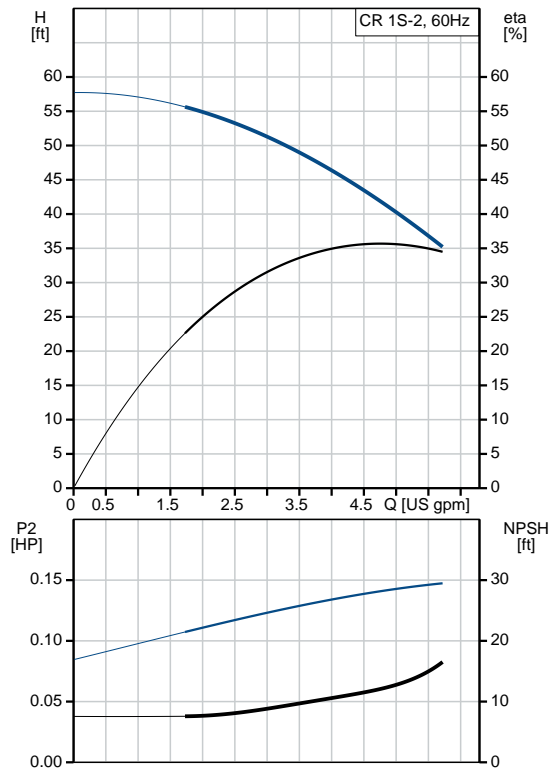
Company name:  
Created by:  
Phone:

Date: 11/19/2020

## 96080875 CR 1S-2 A-B-A-E-HQQE 60 Hz



Description	Value
<b>General information:</b>	
Product name:	CR 1S-2 A-B-A-E-HQQE
Product No.:	96080875
EAN:	5700395153330
Price:	
<b>Technical:</b>	
Rated pump speed:	3436 rpm
Rated flow:	4.84 US gpm
Rated head:	41.34 ft
Maximum head:	56.76 ft
Stages:	3
Impellers:	2
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CURUS, NSF61
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Cooling:	TEFC
<b>Materials:</b>	
Base:	Cast iron
Base:	EN 1561 EN-GJL-200
Base:	ASTM A48-25B
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
<b>Installation:</b>	
Maximum ambient temperature:	104 °F
Maximum operating pressure:	232.06 psi
Max pressure at stated temperature:	232 psi / 250 °F
Max pressure at stated temperature:	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
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-4 .. 248 °F
Selected liquid temperature:	68 °F





Company name:

Created by:

Phone:

Date:

11/19/2020

Description	Value
Density:	62.29 lb/ft <sup>3</sup>
<b>Electrical data:</b>	
Motor standard:	NEMA
Motor type:	BALDOR
Rated power - P2:	0.33 HP
Power (P2) required by pump:	0.33 HP
Main frequency:	60 Hz
Rated voltage:	1 x 115/230 V
Service factor:	1.35
Rated current:	6.00/3.00 A
Load current:	6.8/3.4 A
Rated speed:	3450 rpm
IE efficiency:	58%
Number of poles:	2
Insulation class (IEC 85):	B
Motor Number:	85680001
<b>Controls:</b>	
Frequency converter:	NONE
<b>Others:</b>	
Net weight:	47.7 lb
Gross weight:	58.7 lb
Shipping volume:	4.94 ft <sup>3</sup>
Country of origin:	US
Custom tariff no.:	8413.70.2040

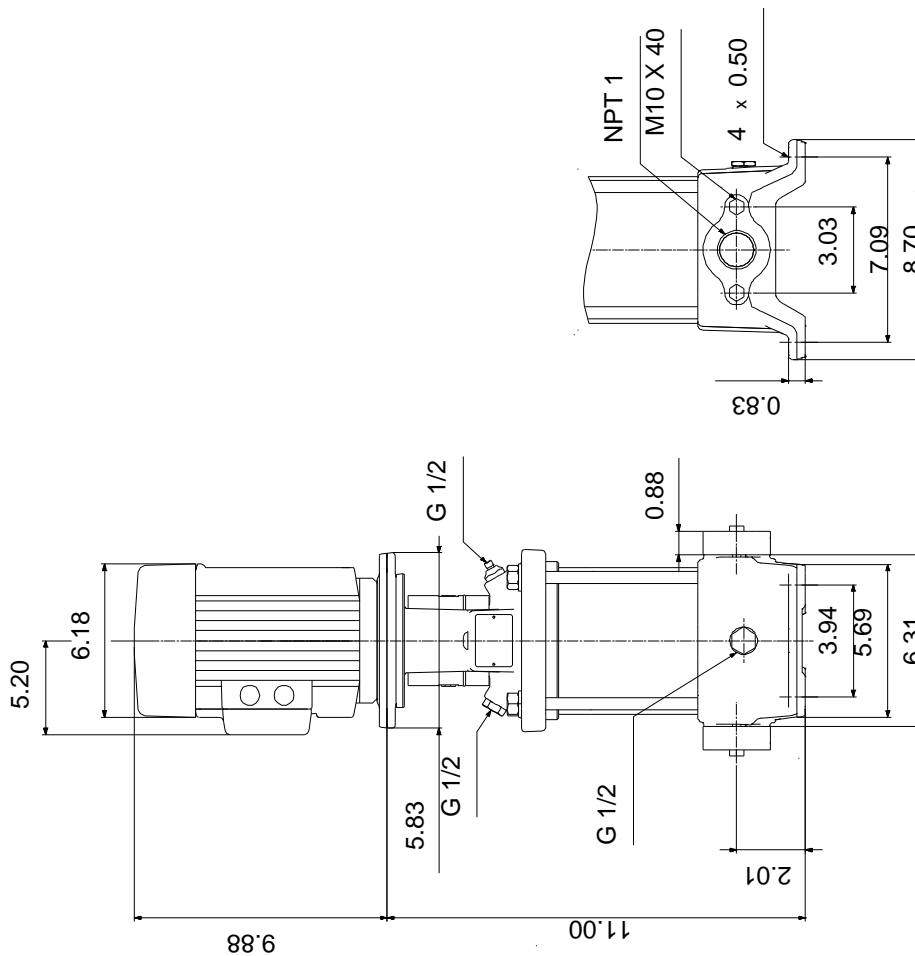




Company name:  
Created by:  
Phone:

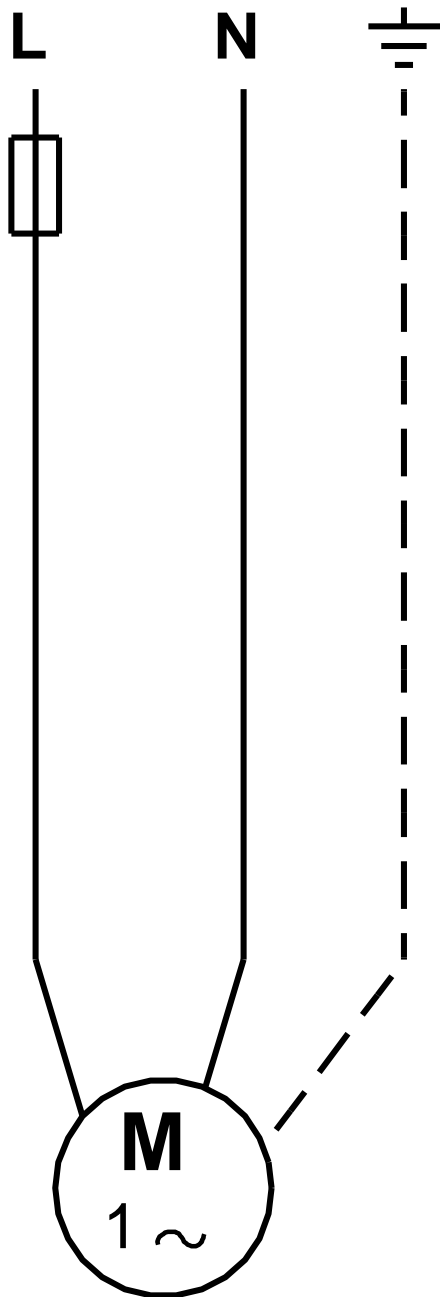
Date: 11/19/2020

## 96080875 CR 1S-2 A-B-A-E-HQQE 60 Hz



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

**96080875 CR 1S-2 A-B-A-E-HQQE 60 Hz**



All units are [in] unless otherwise presented.