

⁴⁾ Curing to a dry film thickness 18-22 my m.



30/11/2022

Qty. | Description

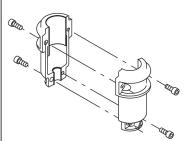
1 The col

The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.

Date:



The motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and vent screw.



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.

Seal faces:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PEEK neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The pump has a stainless-steel base mounted on a separate cast-iron base plate.

The base and base plate are kept in position by the tension of the staybolts which hold the pump together.

Both the inlet and the outlet side of the base have two pressure gauge tappings.

The pump is secured to the foundation by four bolts through the base plate.

The flanges are fastened to the base by means of locking rings.



30/11/2022

Qty. | Description

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Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II).

Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

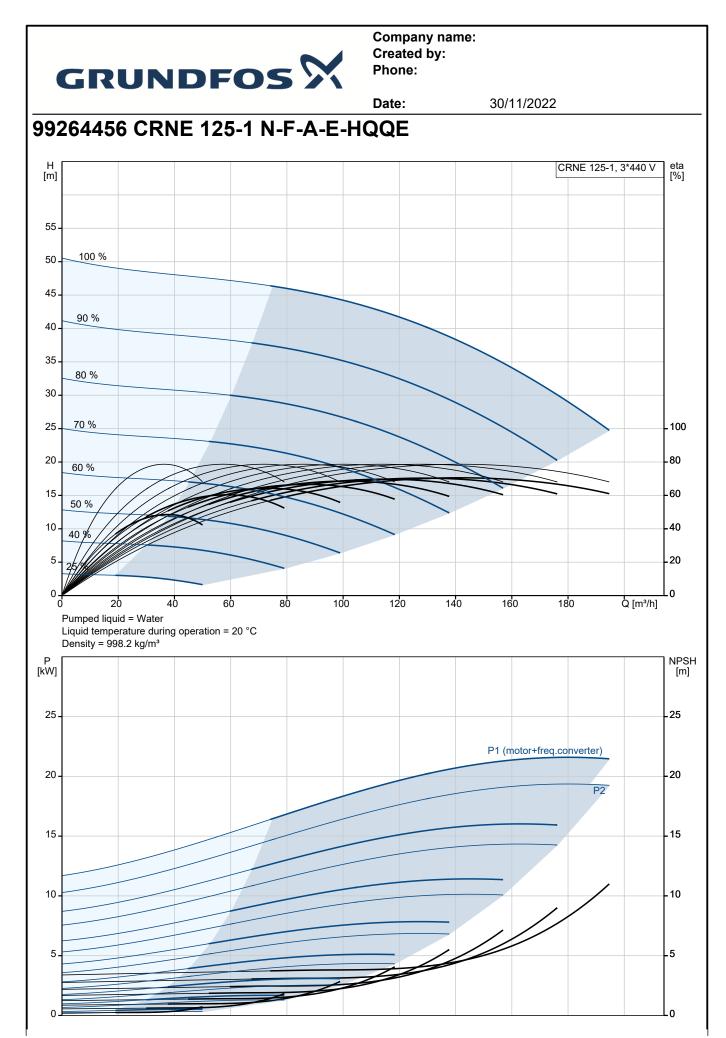
The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Technical data

| Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: | Water -20 120 °C 20 °C 998.2 kg/m³ | | | |
|---|--|--|--|--|
| Technical: Pump speed on which pump dat Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals: Approvals for drinking water: Curve tolerance: | a are based: 3565 rpm 150 m³/h 36.9 m Vertical Single HQQE CE,EAC,UKCA,SEPRO ACS ISO9906:2012 3B | | | |
| Materials: Base: | Stainless steel EN 1.4408 ASTM A351 CF8M | | | |
| Impeller: Stainless steel EN 1.4401 AISI 316 | | | | |
| Bearing: Support bearing: | WC/WC Graflon | | | |
| Material certified according to: | European standards | | | |
| Installation: t max amb: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: | 40 °C 16 bar 16 bar / 120 °C DIN DN 150 DN 150 PN 16 FF300 | | | |

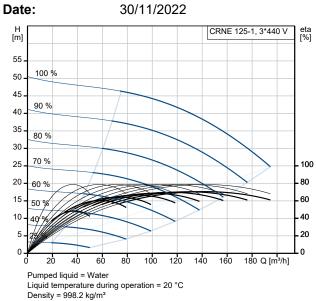


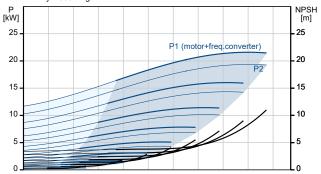
Date: 30/11/2022 Qty. | Description 1 Electrical data: Motor standard: IEC Motor type: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Power (P2) required by pump: 22 kW Over/undersize motor: Standard motor size Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-480 V Rated current: 43.5-35.0 A Cos phi - power factor: 0.91-0.90 Rated speed: 480-3540 rpm Efficiency: IE3 92,7% Motor efficiency at full load: 92.7 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 85901027 Controls: Frequency converter: Built-in Pressure sensor: Υ Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 303 kg Gross weight: 367 kg Shipping volume: 1.14 m³ Thrust handling device: Ν

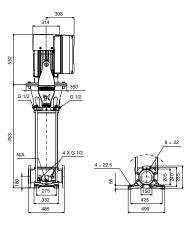


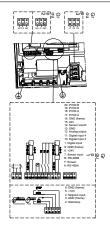


| Description | Value | | |
|--|------------------------------|--|--|
| General information: | | | |
| Product name: | CRNE 125-1 | | |
| | N-F-A-E-HQQE | | |
| Product No: | 99264456 | | |
| EAN number: | 5713826224851 | | |
| Technical: | | | |
| Pump speed on which pump data are based: | 3565 rpm | | |
| Rated flow: | 150 m³/h | | |
| Rated head: | 36.9 m | | |
| Maximum head: | 50.8 m | | |
| Impellers: | 1 | | |
| Number of reduced-diameter impellers: | 0 | | |
| Low NPSH: | Ν | | |
| Pump orientation: | Vertical | | |
| Shaft seal arrangement: | Single | | |
| Code for shaft seal: | HQQE | | |
| Approvals: | CE,EAC,UKCA,SEPRO | | |
| Approvals for drinking water: | ACS | | |
| Curve tolerance: | ISO9906:2012 3B | | |
| Pump version: | Ν | | |
| Model: | Α | | |
| Materials: | | | |
| Base: | Stainless steel | | |
| Base: | EN 1.4408 | | |
| Base: | ASTM A351 CF8M | | |
| Impeller: | Stainless steel | | |
| Impeller: | EN 1.4401 | | |
| Impeller: | AISI 316 | | |
| Material code: | A | | |
| Code for rubber: | E | | |
| Bearing: | WC/WC | | |
| - | Graflon | | |
| Support bearing: Material certified according to: | | | |
| Installation: | European standards | | |
| | 40.00 | | |
| t max amb: | 40 °C | | |
| Maximum operating pressure: | 16 bar | | |
| Max pressure at stated temp: | 16 bar / 120 °C | | |
| Type of connection: | DIN DN 450 | | |
| Size of inlet connection: | DN 150 | | |
| Size of outlet connection: | DN 150 | | |
| Pressure rating for connection: | PN 16 | | |
| Flange size for motor: | FF300 | | |
| Connect code: | F | | |
| Liquid: | | | |
| Pumped liquid: | Water | | |
| Liquid temperature range: | -20 120 °C | | |
| Selected liquid temperature: | 20 °C | | |
| Density: | 998.2 kg/m³ | | |
| Electrical data: | | | |
| Motor standard: | IEC | | |
| Motor type: | 180MB | | |
| IE Efficiency class: | IE3 | | |
| | 22 kW | | |
| Rated power - P2: | | | |
| • | 22 kW | | |
| Rated power - P2: Power (P2) required by pump: Over/undersize motor: | 22 kW Standard motor size | | |
| Power (P2) required by pump: Over/undersize motor: | | | |
| Power (P2) required by pump: | Standard motor size | | |



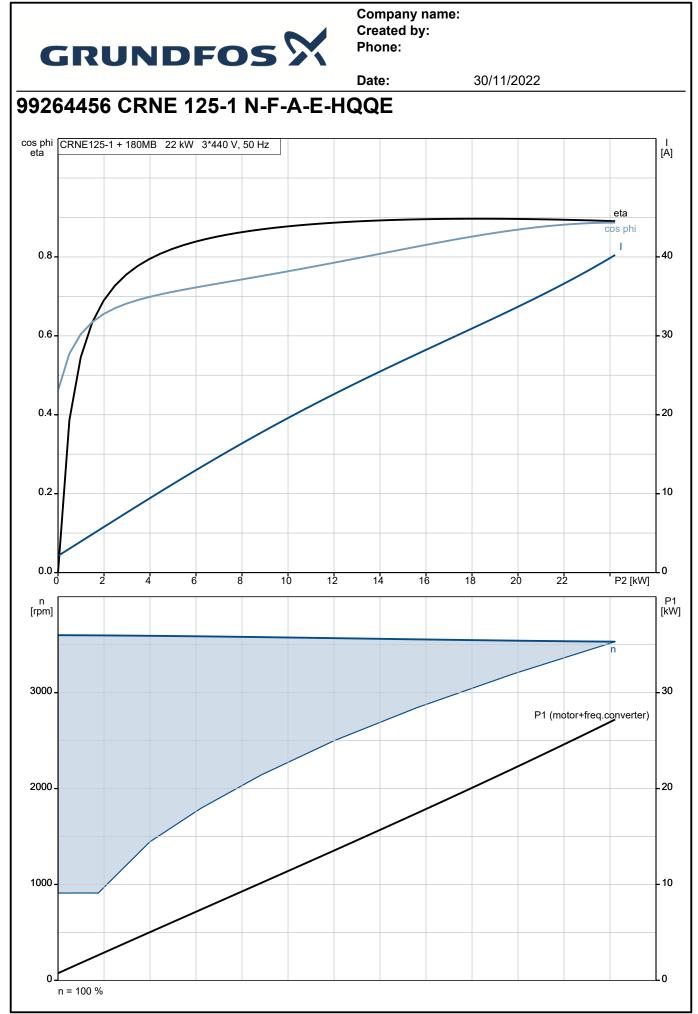








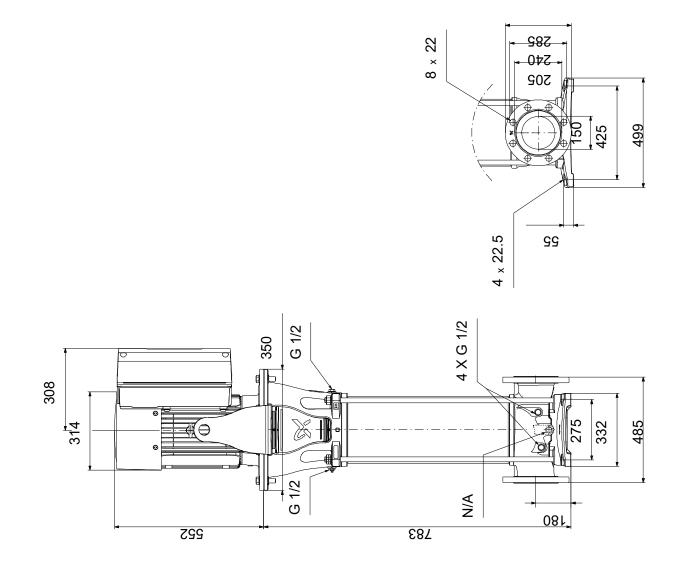
30/11/2022 Date: Description Value Cos phi - power factor: 0.91-0.90 Rated speed: 480-3540 rpm Efficiency: IE3 92,7% Motor efficiency at full load: 92.7 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F YES Built-in motor protection: Motor No: 85901027 Controls: Function Module: ADVANCED I/O Frequency converter: Built-in Pressure sensor: Y Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 303 kg Gross weight: 367 kg Shipping volume: 1.14 m³ 95139537 Config. file no: Thrust handling device: Ν



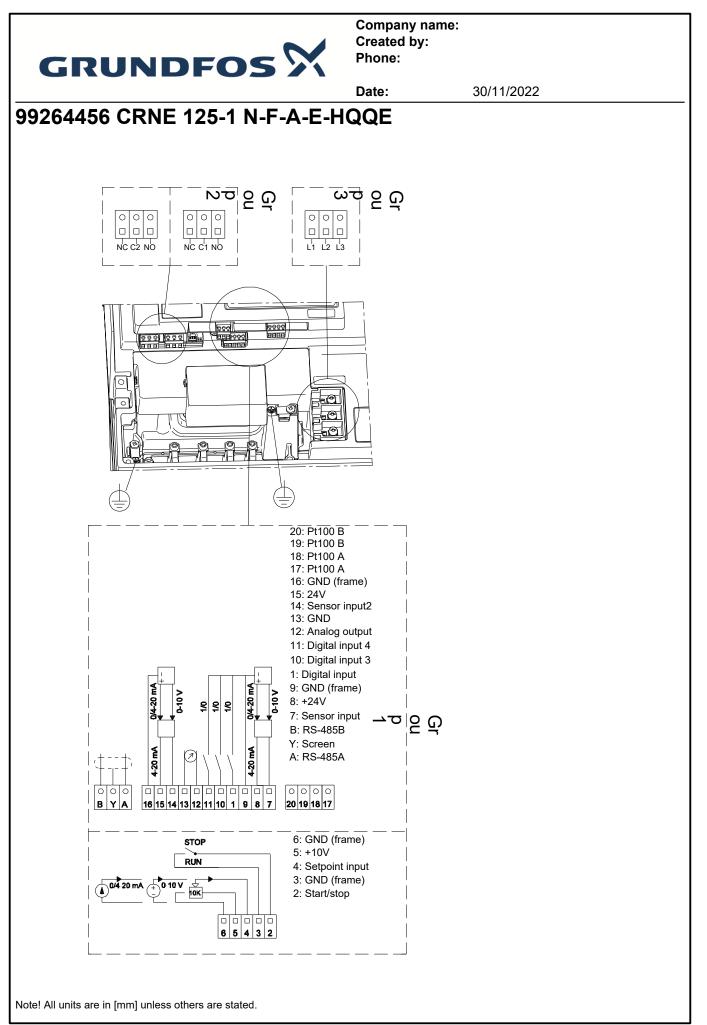


30/11/2022

99264456 CRNE 125-1 N-F-A-E-HQQE



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





Date: 30/11/2022 Order Data: atal Product name -

| Position | Your pos. | Product name | Amount | Product No | Total | | | |
|------------------------|--|--------------|--------|------------|---------------------|--|--|--|
| | | CRNE 125-1 | 1 | | Price on request | | | |
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