

Date: 29/12/2022

Qty. | Description

1 | CRNE 32-2 N-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 99072001

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade 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 DIN flanges.

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.

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.

An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
- · "Alarm": Motor has stopped (flashing red indicator lights).

Communication with the pump is 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".

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:

- two dedicated digital inputs
- three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V; the factory-fitted pressure sensor is connected to one of these inputs
- 5 V voltage supply to potentiometer and sensor
- one analog output, 0-10 V, 0(4)-20 mA
- two configurable digital inputs or open-collector outputs
- two Pt100/Pt1000 inputs
- LiqTec, dry-running protection sensor input
- Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- · GENIbus connection
- · interface for Grundfos CIM fieldbus module.

Further product details

The pump is equipped with a pressure sensor registering pump outlet pressure and enabling controlled pump operation based on constant pressure.

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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.

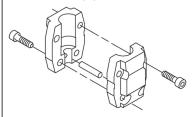
The entire process consists of these elements:

- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

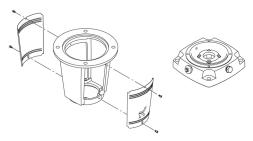
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



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:

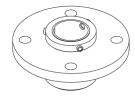
- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

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.







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1 The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

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

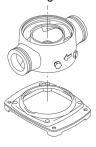
The pump has a stainless-steel base mounted on a separate base plate.

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.



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 IE5 in accordance with IEC 60034-30-2.

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: Water
Liquid temperature range: -40 .. 120 °C
Selected liquid temperature: 20 °C
Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 3525 rpm

Rated flow: 36 m³/h
Rated head: 43.1 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE

Approvals: CE,EAC,UKCA,SEPRO

Approvals for drinking water: WRAS,ACS
Curve tolerance: ISO9906:2012 3B

Materials:

Base: Stainless steel

EN 1.4408 AISI 316

Impeller: Stainless steel

EN 1.4401 AISI 316

Bearing: SIC Support bearing: Graflon



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1 Installation:

t max amb: 50 °C Maximum operating pressure: 16 bar

Max pressure at stated temp: 16 bar / 120 °C

16 bar / -40 °C

Type of connection: DIN
Size of inlet connection: DN 65
Size of outlet connection: DN 65
Pressure rating for connection: PN 40
Flange size for motor: FF265

Electrical data:

Motor standard: IEC
Motor type: 132SF
IE Efficiency class: IE5
Rated power - P2: 7.5 kW
Power (P2) required by pump: 7.5 kW

Over/undersize motor: Standard motor size

 Mains frequency:
 50 / 60 Hz

 Rated voltage:
 3 x 380-500 V

 Rated current:
 14.1-11.2 A

 Cos phi - power factor:
 0.93-0.89

 Rated speed:
 360-4000 rpm

Efficiency: 92.5%

Motor efficiency at full load: 92.5 %

Enclosure class (IEC 34-5): IP55

Insulation class (IEC 85): F

Motor No: 98971052

Controls:

Frequency converter: Built-in Pressure sensor: Y

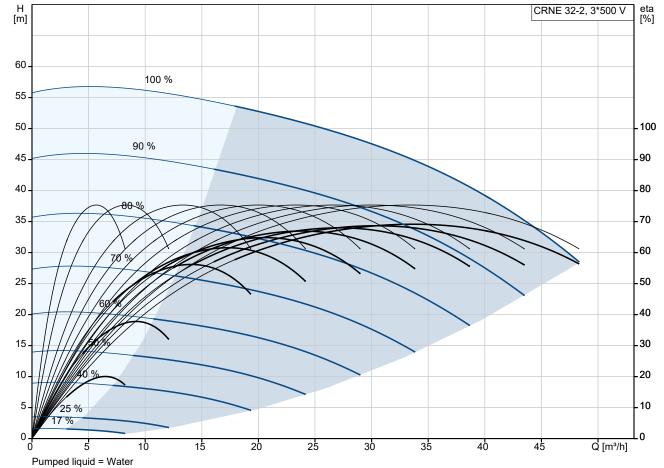
Others:

Minimum efficiency index, MEI \geq : 0.70 Net weight: 101 kg Gross weight: 134 kg Shipping volume: 0.495 m³ Danish VVS No.: 386020102

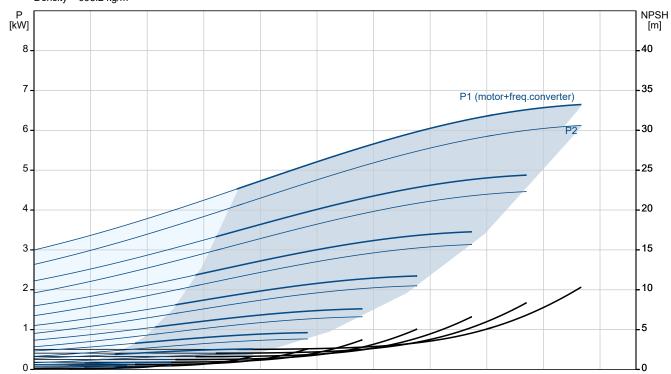


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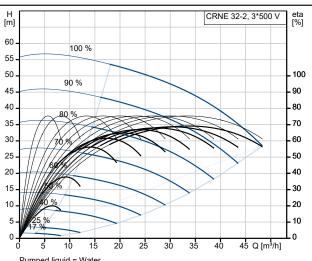
Eumped liquid = water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³



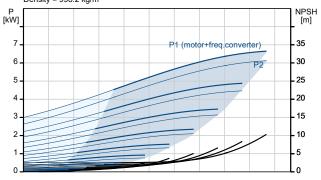


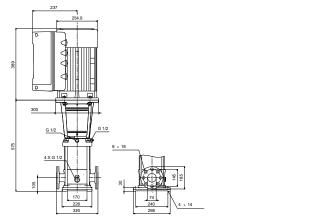
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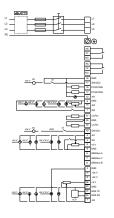
Description Value General Information: CRNE 32-2 N-F-A-E-HQQE Product name: 5712606202294 Product No: 99072001 EAN number: 5712606202294 Technical: Technical: Pump speed on which pump data are based: 3525 rpm Rated flow: 36 m³/h Rated head: 43.1 m Maximum head: 57.2 m Stages: 2 Impellers: 0 Low NPSH: N Pump of reduced-diameter impellers: 0 Low NPSH: N Number of reduced-diameter impellers: 0 Low NPSH: N Nump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals: CE_EAC_UKCA,SEPRO Approvals for drinking water: WRAS,ACS Curve tolerance: ISO9906:2012 3B Pump version: N Model: B Materials: Stainless steel Ba				
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t max amb: Maximum operating pressure: Max pressure at stated temp: Max pressure at stated temp: Type of connection: Size of inlet connection: DN 65 Size of outlet connection: Pressure rating for connection: Pressure rating for connection: Ph 40 Flange size for motor: FF265 Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: 50 / 60 Hz				
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Max pressure at stated temp: Max pressure at stated temp: Type of connection: DIN Size of inlet connection: DN 65 Size of outlet connection: PN 40 Flange size for motor: Connect code: Fuiquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mator Tibe bar / 120 °C DIN DN 65 PN 40 FF265 CON 40 FF265 CON 40 FF265 CON 40 FF265 FELIQUID FE	Maximum operating pressure:			
Max pressure at stated temp: Type of connection: DIN Size of inlet connection: DN 65 Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Motor standard motor size Mains frequency: Motor standard motor size Mains frequency: DIN Standard C DN 65 PN 40 FF265 CON 40 FF265 F Vater PO 20°C Selected liquid temperature: 20°C Selected liquid temperature: 20°C Density: 998.2 kg/m³ EEC T.5 kW T.5 kW Over/undersize motor: Standard motor size Mains frequency: Standard motor size		16 bar / 120 °C		
Type of connection: Size of inlet connection: DN 65 Size of outlet connection: Pressure rating for connection: PN 40 Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: DN 65 DN 65 PN 40 Standard Water F265 CO PO 20 PO 30 CO Selected liquid temperature: 20 °C 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 132SF IE 5 Rated power - P2: 7.5 kW Over/undersize motor: Standard motor size Mains frequency: 50 / 60 Hz		16 bar / -40 °C		
Size of inlet connection: Size of outlet connection: DN 65 Pressure rating for connection: PN 40 Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Poss. 20°C Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: DN 65 PN 40 PN 40 FF265 CO PN 40 PS 265 F Liquid: Water 20°C 20°C 20°C 21°C 22°C 25°C 25°C 25°C 26°C 27°C 28°C 298.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 132SF IE 5 Rated power - P2: 7.5 kW Over/undersize motor: Standard motor size Mains frequency: 50 / 60 Hz				
Pressure rating for connection: Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Poss. 20°C Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: PN 40 Pressure rating for connection: FF265 Poss. 40 Water 20°C 20°C 20°C 21°C		DN 65		
Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: 132SF IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: FF265 FR 1505 FR 265 FR		DN 65		
Connect code: Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: Selectrical data: Motor standard: Motor type: Selected power - P2: Power (P2) required by pump: Mains frequency: F Water -40 120 °C 20 °C 998.2 kg/m³ EEC 132SF IEC 132SF IES 7.5 kW 7.5 kW 155 165 17.5 kW	Pressure rating for connection:	PN 40		
Liquid: Pumped liquid: Uiquid temperature range: Vigeral data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Water Value -40 120 °C Vigeral 20 °C Vigeral 998.2 kg/m³ Vigeral 120 °C Vigeral 998.2 kg/m³ Vigeral 120 °C Viger	Flange size for motor:	FF265		
Pumped liquid: Liquid temperature range: Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: 132SF IE Efficiency class: IE5 Rated power - P2: Power (P2) required by pump: 7.5 kW Over/undersize motor: Standard motor size Mains frequency: 50 / 60 Hz	Connect code:	F		
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Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 132SF IE Efficiency class: IE5 Rated power - P2: 7.5 kW Power (P2) required by pump: 7.5 kW Over/undersize motor: Standard motor size Mains frequency: 50 / 60 Hz				
Electrical data: Motor standard: Motor type: 132SF IE Efficiency class: Rated power - P2: Power (P2) required by pump: Over/undersize motor: Mains frequency: Standard motor size 50 / 60 Hz		20 °C		
Motor standard: Motor type: 132SF IE Efficiency class: Rated power - P2: Power (P2) required by pump: Over/undersize motor: Mains frequency: Standard motor size 50 / 60 Hz		998.2 kg/m³		
Motor type: 132SF IE Efficiency class: IE5 Rated power - P2: 7.5 kW Power (P2) required by pump: 7.5 kW Over/undersize motor: Standard motor size Mains frequency: 50 / 60 Hz				
IE Efficiency class: Rated power - P2: 7.5 kW Power (P2) required by pump: 7.5 kW Over/undersize motor: Standard motor size Mains frequency: 50 / 60 Hz				
Rated power - P2: 7.5 kW Power (P2) required by pump: 7.5 kW Over/undersize motor: Standard motor size Mains frequency: 50 / 60 Hz		132SF		
Power (P2) required by pump: 7.5 kW Over/undersize motor: Standard motor size Mains frequency: 50 / 60 Hz	-			
Over/undersize motor: Standard motor size Mains frequency: 50 / 60 Hz				
Mains frequency: 50 / 60 Hz				
Rated voltage: 3 x 380-500 V				
	Rated voltage:	3 x 380-500 V		



Liquid temperature during operation = 20 °C Density = 998.2 kg/m³









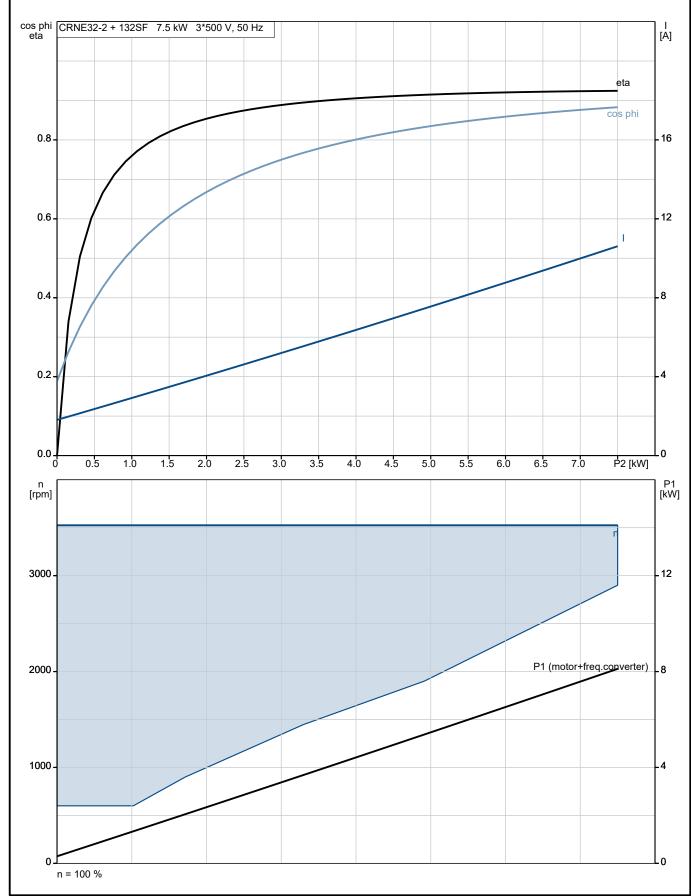
Date: 29/12/2022

Description	Value		
Rated current:	14.1-11.2 A		
Cos phi - power factor:	0.93-0.89		
Rated speed:	360-4000 rpm		
Efficiency:	92.5%		
Motor efficiency at full load:	92.5 %		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	ELEC		
Motor No:	98971052		
Controls:			
Control panel:	Standard		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Pressure sensor:	Υ		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	101 kg		
Gross weight:	134 kg		
Shipping volume:	0.495 m³		
Config. file no:	99059283		
Danish VVS No.:	386020102		



Date: 29/12/2022

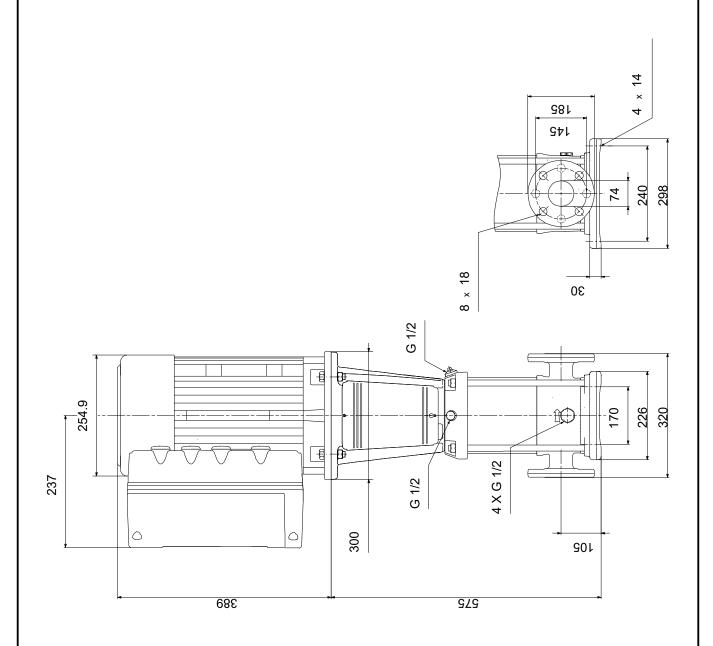
99072001 CRNE 32-2 N-F-A-E-HQQE





29/12/2022 Date:

99072001 CRNE 32-2 N-F-A-E-HQQE

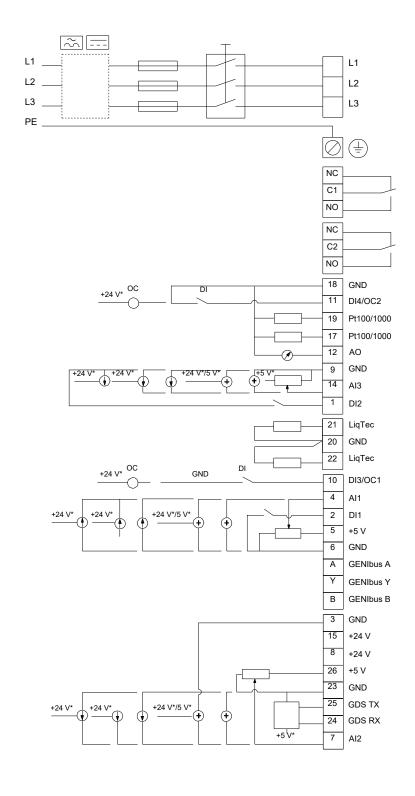


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 29/12/2022

99072001 CRNE 32-2 N-F-A-E-HQQE



Note! All units are in [mm] unless others are stated.



Date: 29/12/2022

Order Data:

Position	Your pos.	Product name	Amount	Product No	Total
		CRNE 32-2	1	99072001	Price on request