



29/12/2022

Qty. | Description

1

"Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)

Date:

• "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".

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.

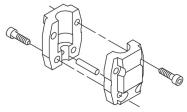
The entire process consists of these elements:

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

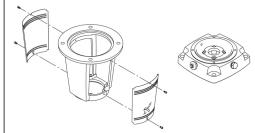
The colour code for the finished product is NCS 9000/RAL 9005.

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.

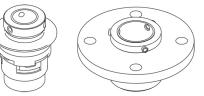
Seal faces:

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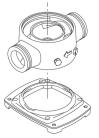
The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

Date:

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.

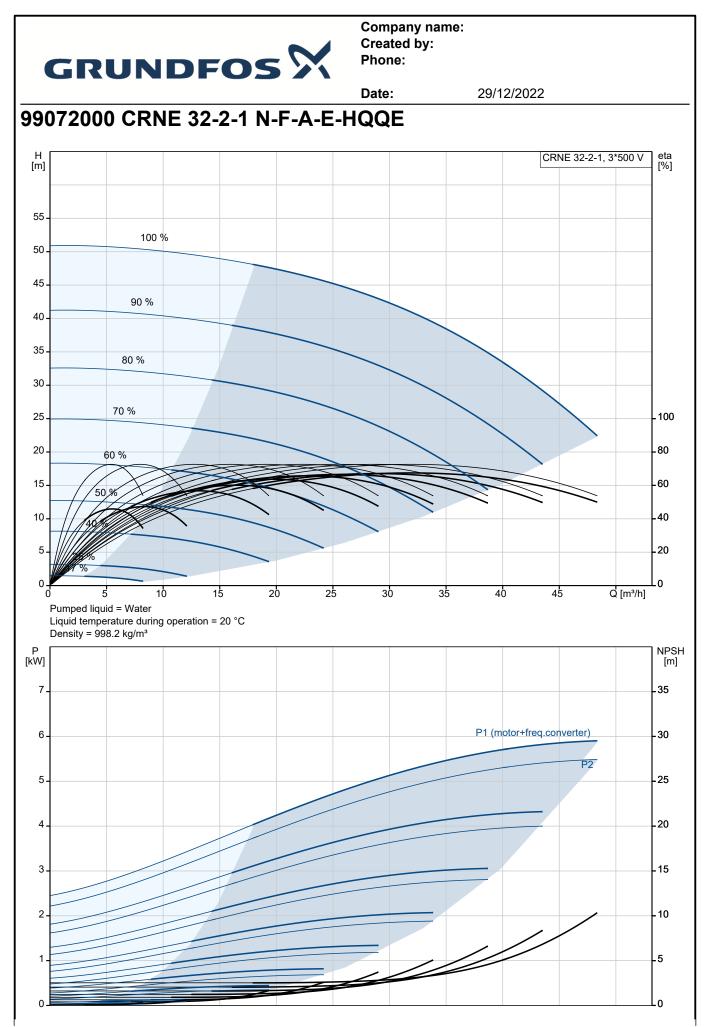
The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Technical data

Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -40 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals: Approvals for drinking water: Curve tolerance:	are based: 3526 rpm 36 m³/h 37.9 m Vertical Single HQQE CE,EAC,UKCA,SEPRO WRAS,ACS ISO9906:2012 3B
Materials: Base: Impeller:	Stainless steel EN 1.4408 AISI 316 Stainless steel EN 1.4401
Bearing: Support bearing:	AISI 316 SIC Graflon



			Date:	29/12/2022	
y .	Description				
	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:	132SE			
	IE Efficiency class:	IE5			
	Rated power - P2:	5.5 kW			
	Power (P2) required by pump:	5.5 kW			
	Over/undersize motor:				
		Standard motor size			
	Mains frequency:	50 / 60 Hz			
	Rated voltage:	3 x 380-500 V			
	Rated current:	10.3-8.20 A			
	Cos phi - power factor:	0.92-0.88			
	Rated speed:	360-4000 rpm			
	Efficiency:	92.7%			
	Motor efficiency at full load:	92.7 %			
	Enclosure class (IEC 34-5):	IP55			
	Insulation class (IEC 85):	F			
	Motor No:	98971051			
	Controls:				
	Frequency converter:	Built-in			
	Pressure sensor:	Y			
	Others:				
	Minimum efficiency index, MEI ≥:	0.70			
	Net weight:	91.4 kg			
	Gross weight:	114 kg			
	Shipping volume:	0.309 m³			
	Danish VVS No.:	386020171			



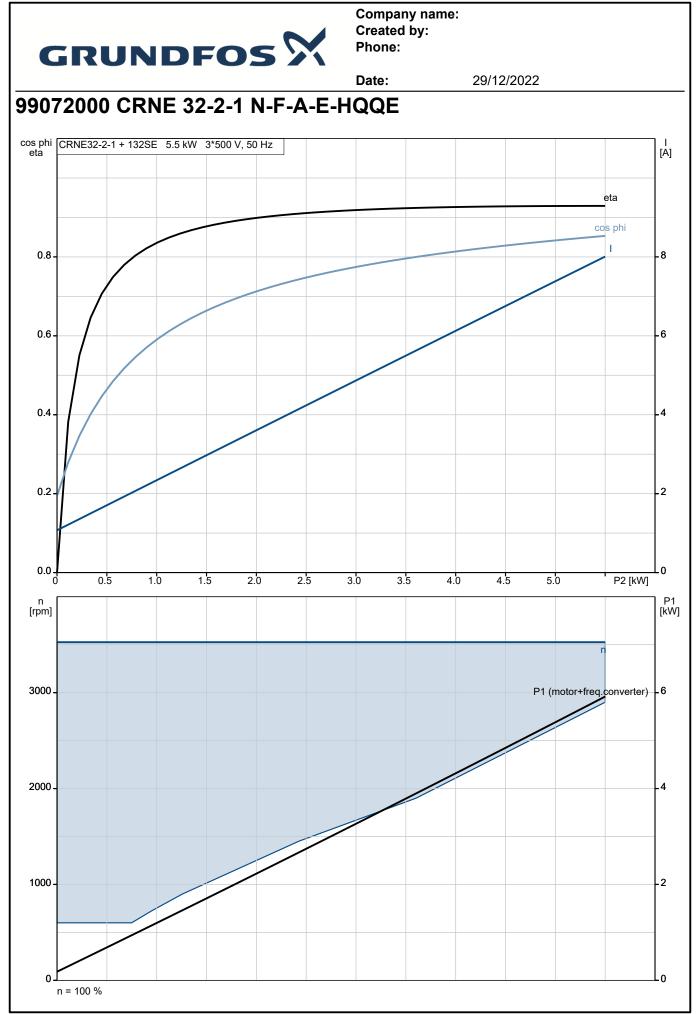


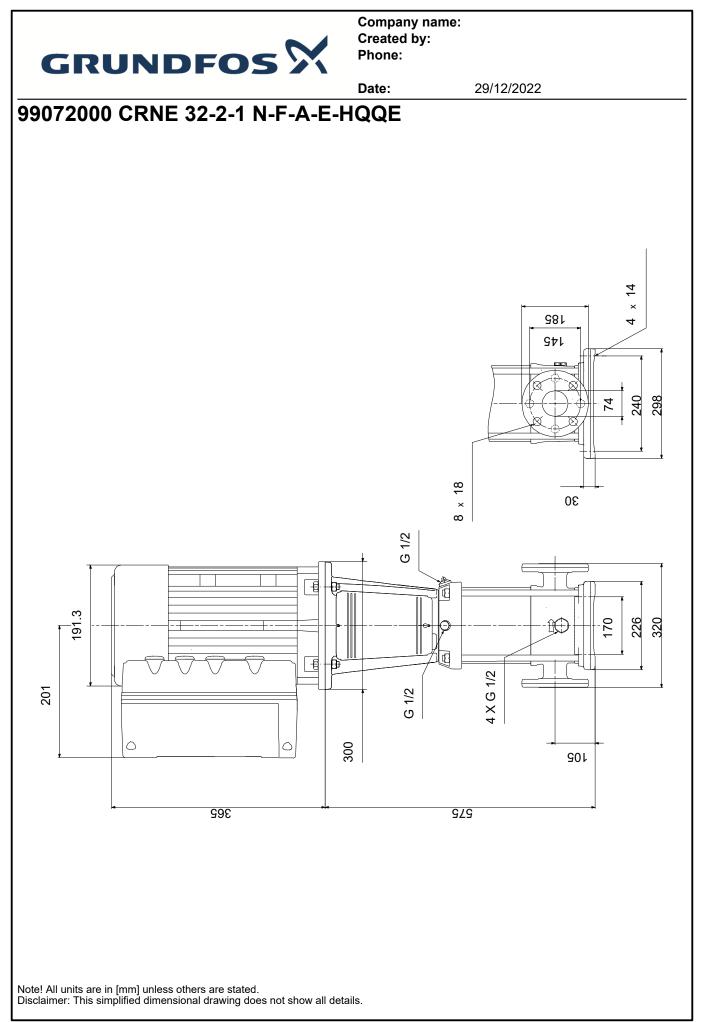
		Date: 29/12/2022	
Description	Value	H [m]	√ eta [%]
General information:			
Product name:	CRNE 32-2-1 N-F-A-E-HQQE	55 - 100 % 50	
Product No:	99072000	45	
EAN number:	5712606202270	40 - 90 %	_
Technical:		35 - 00 %	
Pump speed on which pump data are based:	3526 rpm	30-	
Rated flow:	36 m³/h	25 70 %	- 100
Rated head:	37.9 m	20 - 60 %	- 80
Maximum head:	51.4 m	15- 50-8-	- 60
Stages:	2	10-	40
Impellers:	2	5	20
Number of reduced-diameter impellers:	1		
Low NPSH:	Ν	0 5 10 15 20 25 30 35 40 45 Q [m ³ /	LO 1]
Pump orientation:	Vertical	Pumped liquid = Water	-
Shaft seal arrangement:	Single	Liquid temperature during operation = 20 °C Density = 998.2 kg/m³	
Code for shaft seal:	HQQE	P	NPSH
Approvals:	CE,EAC,UKCA,SEPRO		[m]
Approvals for drinking water:	WRAS,ACS		
Curve tolerance:	ISO9906:2012 3B	6 P1 (motor+freq.converter)	- 30
Pump version:	Ν	5	- 25
Model:	В	4-	_ 20
Materials:		4-	- 20
Base:	Stainless steel	3	- 15
Base:	EN 1.4408	2	10
Base:	AISI 316		_ 5
Impeller:	Stainless steel		- °
Impeller:	EN 1.4401	0	Lo_
Impeller:	AISI 316	۲ <u>ــــــــــــــــــــــــــــــــــــ</u>	
Material code:	A	191.3	
Code for rubber:	E		
Bearing:	SIC		
Support bearing:	Graflon		
Installation:			
t max amb:	50 °C		
Maximum operating pressure:	16 bar		
Max pressure at stated temp:	16 bar / 120 °C		
Max pressure at stated temp:	16 bar / -40 °C	<u>G 1/2</u> <u>G 1/2</u>	
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	226 320 238	
Connect code:	F		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-40 120 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³		
Electrical data:	•		
Motor standard:	IEC		
Motor type:	132SE		
IE Efficiency class:	IE5		
Rated power - P2:	5.5 kW		
Power (P2) required by pump:	5.5 kW		
Over/undersize motor:	Standard motor size		
Mains frequency:	50 / 60 Hz		
Rated voltage:	3 x 380-500 V		

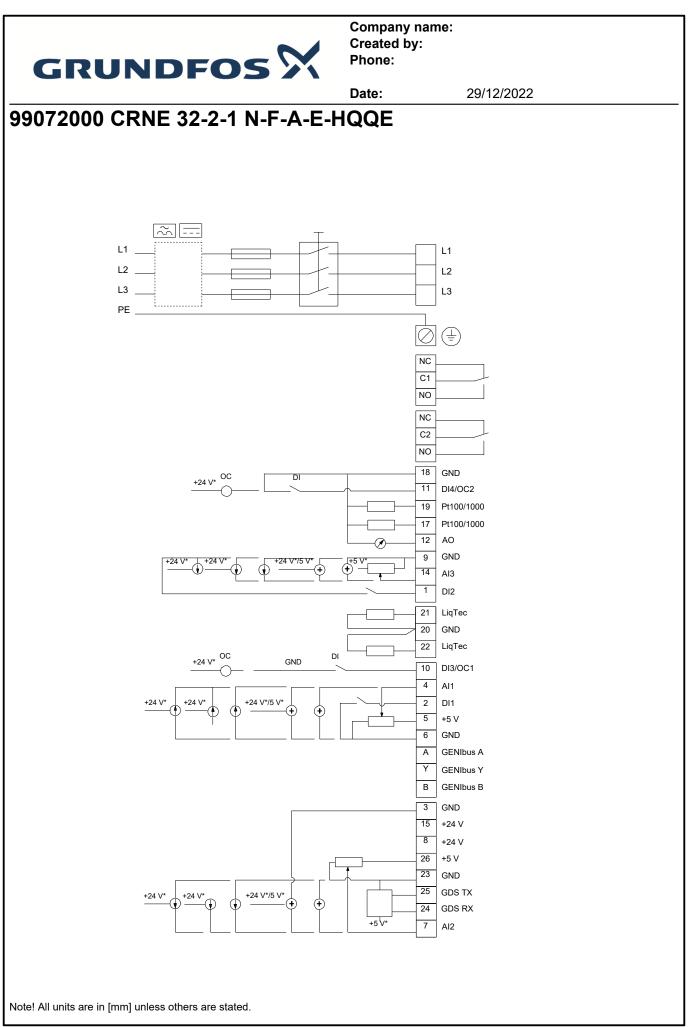
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29/12/2022 Date: Description Value Rated current: 10.3-8.20 A Cos phi - power factor: 0.92-0.88 Rated speed: 360-4000 rpm Efficiency: 92.7% Motor efficiency at full load: 92.7 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971051 Controls: Control panel: Standard Function Module: FM300 - Advanced Frequency converter: Built-in Y Pressure sensor: Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 91.4 kg Gross weight: 114 kg 0.309 m³ Shipping volume: Config. file no: 99059267 Danish VVS No.: 386020171









Position

Company name: Created by: Phone:

 Indite:

 Date: 29/12/2022

 Order Data:

 Your pos.
 Product name
 Amount
 Product No
 Total

 CRNE 32-2-1
 1
 99072000
 Price on request