

- 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

An external sensor can be connected if controlled pump operation based on for example flow, differential pressure or temperature is required.

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)



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"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 pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). The pump head has a combined 1/2" priming plug and vent screw.

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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.



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Description

Motor

ensure a high efficiency.

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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 The pump has a stainless-steel base mounted on a seperate base plate. This base and base plate are kept in position by the tension of the staybolts which hold the pump together. 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. The flanges and base are cast in one piece and prepared for connection by means of DIN, ANSI or JIS. 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.

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.

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
- 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
- LigTec, 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.

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 data Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals: Approvals for drinking water: Curve tolerance:	are based: 3410 rpm 2.2 m³/h 26.8 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 AISI 316



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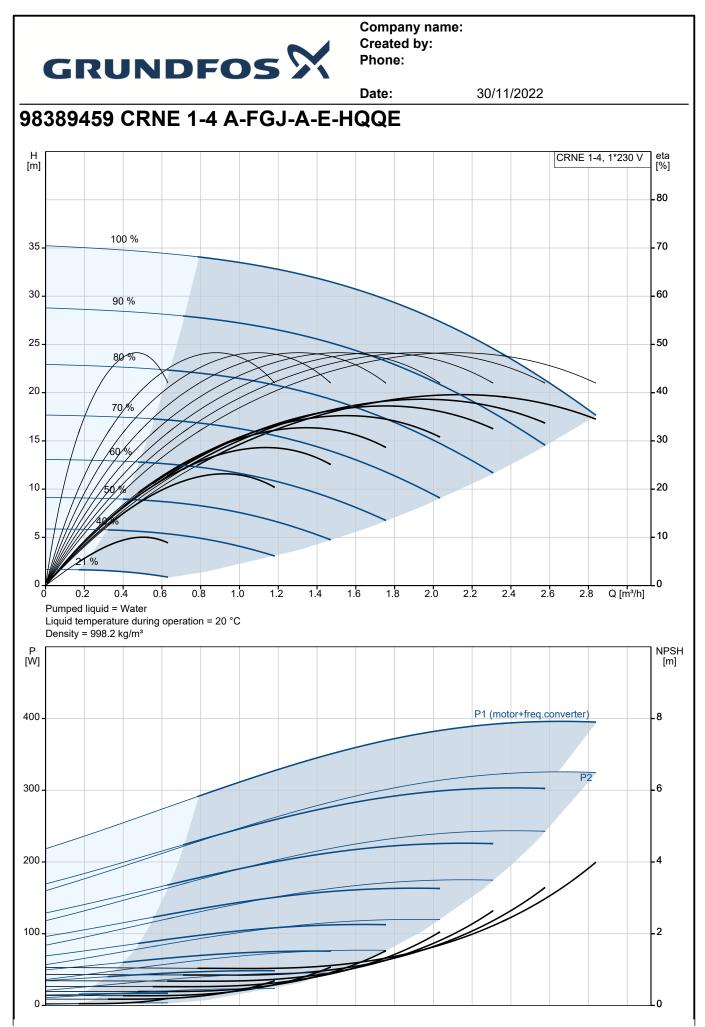
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Date:

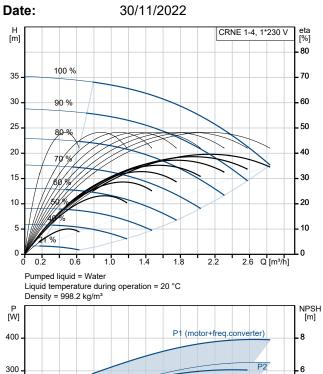
Description Bearing: SIC Installation: t max amb: 50 °C Maximum operating pressure: 25 bar 25 bar / 120 °C Max pressure at stated temp: 25 bar / -20 °C Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 Size of outlet connection: DN 25/32 Pressure rating for connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: FT85 Electrical data: Motor standard: IEC Motor type: 71A IE Efficiency class: IE5 Rated power - P2: 0.37 kW Power (P2) required by pump: 0.37 kW Over/undersize motor: Standard motor size Mains frequency: 50 / 60 Hz Rated voltage: 1 x 200-240 V Rated current: 2.40-2.10 A Cos phi - power factor: 0.96 Rated speed: 360-4000 rpm Efficiency: 84.0% Motor efficiency at full load: 84.0 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98190190 Controls: Frequency converter: Built-in Pressure sensor: Ν

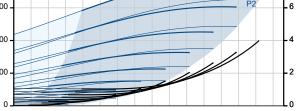
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	23.9 kg
Gross weight:	26.8 kg
Shipping volume:	0.143 m ³

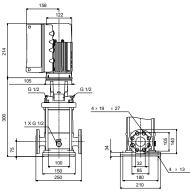


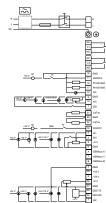


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Description	Value	[m]
General information:		_
Product name:	CRNE 1-4	35 -
	A-FGJ-A-E-HQQE	35 -
Product No:	98389459	30
EAN number:	5711494178445	
Technical:		25
Pump speed on which pump data are based:	3410 rpm	20 -
Rated flow:	2.2 m³/h	
Rated head:	26.8 m	15 -
Maximum head:	36.2 m	10
Stages:	4	- 17
Impellers:	4	5-
Number of reduced-diameter impellers:	0	_
Low NPSH:	Ν	0
Pump orientation:	Vertical	Pu
Shaft seal arrangement:	Single	Lie
Code for shaft seal:	HQQE	D
Approvals:	CE,EAC,UKCA,SEPRO	– [Ŵ]
Approvals for drinking water:	WRAS,ACS	400 -
Curve tolerance:	ISO9906:2012 3B	400 -
Pump version:	A	
Model:	A	300 -
Materials:	~	
Base:	Stainless steel	200
	EN 1.4408	_
Base:		100
Base:	AISI 316	_
mpeller:	Stainless steel	
mpeller:	EN 1.4401	-
Impeller:	AISI 316	-
Material code:	A	
Code for rubber:	E	
Bearing:	SIC	_
Installation:		214
t max amb:	50 °C	_
Maximum operating pressure:	25 bar	_ =
Max pressure at stated temp:	25 bar / 120 °C	
Max pressure at stated temp:	25 bar / -20 °C	300
Type of connection:	DIN / ANSI / JIS	×
Size of inlet connection:	DN 25/32	- +
Size of outlet connection:	DN 25/32	75
Pressure rating for connection:	PN 25	
Flange rating inlet:	300 lb	
Flange size for motor:	FT85	
Connect code:	FGJ	
Liquid:		
Pumped liquid:	Water	
Liquid temperature range:	-20 120 °C	
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m ³	
Electrical data:	5	
Motor standard:	IEC	
Notor type:	71A	
E Efficiency class:	IE5	
Rated power - P2:	0.37 kW	
Power (P2) required by pump:	0.37 kW	
Over/undersize motor:	Standard motor size	
Vains frequency:	50 / 60 Hz	
Rated voltage:	1 x 200-240 V	





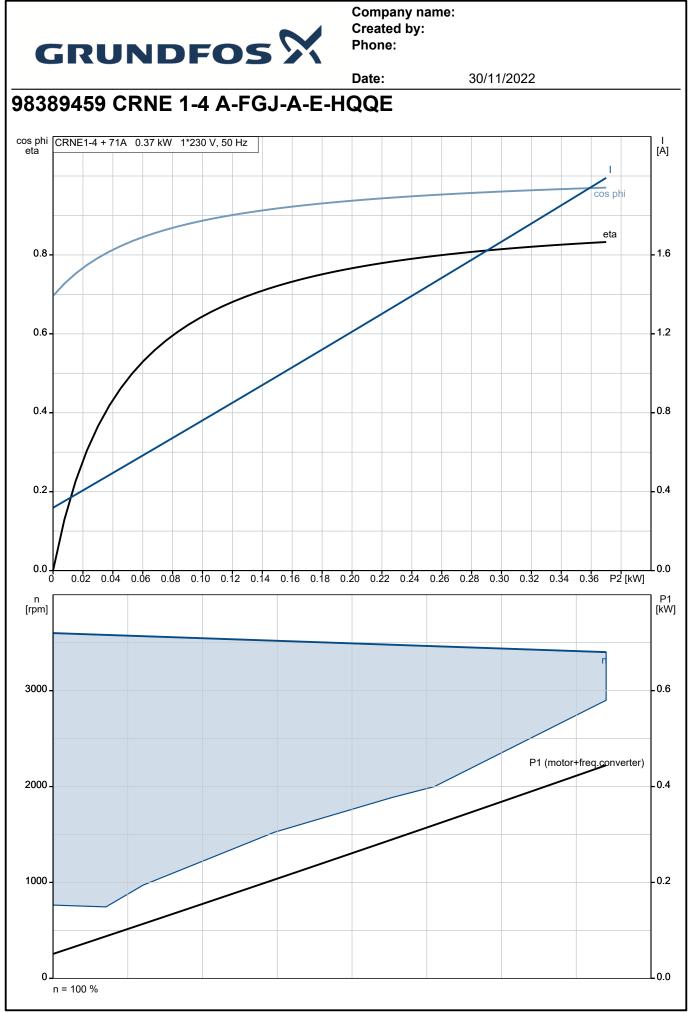




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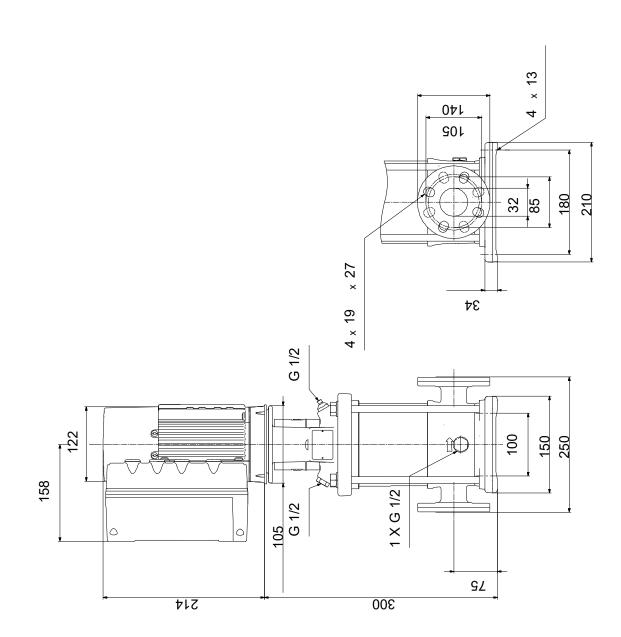
30/11/2022 Date: Description Value Rated current: 2.40-2.10 A Cos phi - power factor: 0.96 Rated speed: 360-4000 rpm Efficiency: 84.0% Motor efficiency at full load: 84.0 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98190190 Controls: Control panel: Standard Function Module: FM300 - Advanced Frequency converter: Built-in Ν Pressure sensor: Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 23.9 kg Gross weight: 26.8 kg 0.143 m³ Shipping volume: 98498324 Config. file no:



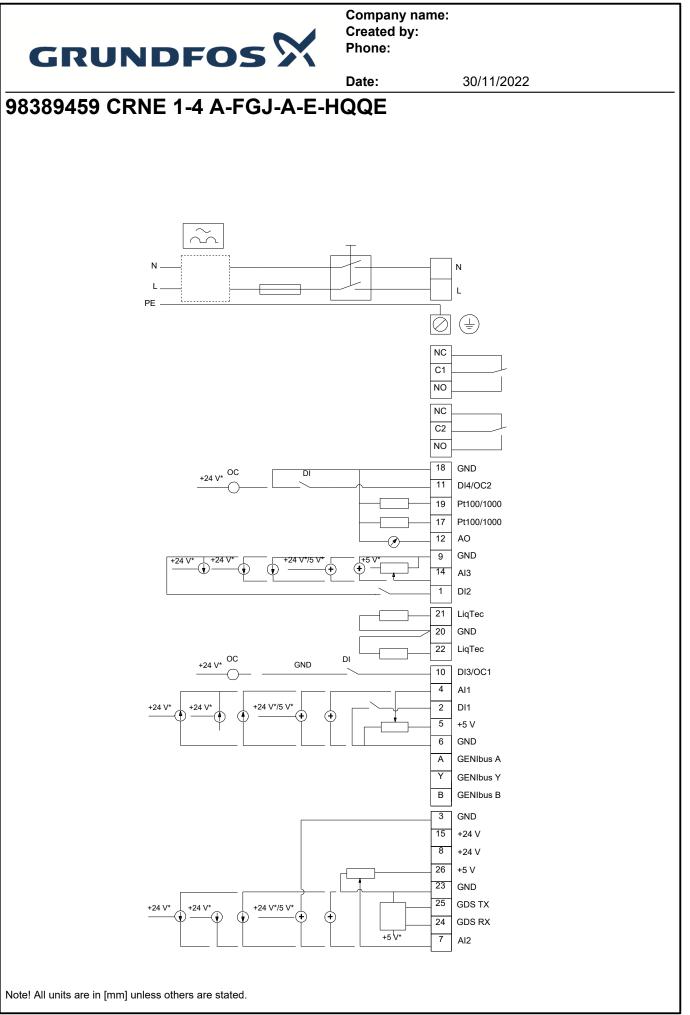


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98389459 CRNE 1-4 A-FGJ-A-E-HQQE



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





Your pos.

Position

Company name: Created by: Phone:

Date: 30/11/2022 Order Data: Total **Product name** Amount **Product No**

	CRNE 1-4	1	98389459	Price on request