

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.

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)



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:

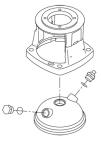
- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

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 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.



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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Company name: Created by: Phone:

Date: 29/12/2022 Qty. Description 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 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 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. Motor 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. **Technical data** Liquid: Pumped liquid: Water Liquid temperature range: -20 .. 120 °C 20 °C Selected liquid temperature: Density: 998.2 kg/m3 Technical: Pump speed on which pump data are based: 3501 rpm Rated flow: 6.9 m³/h Rated head: 36.5 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 Installation: t max amb: 50 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C

DIN / ANSI / JIS

DN 25/32

DN 25/32

PN 25

300 lb

FT115

Pressure rating for connection:

Type of connection:

Flange rating inlet:

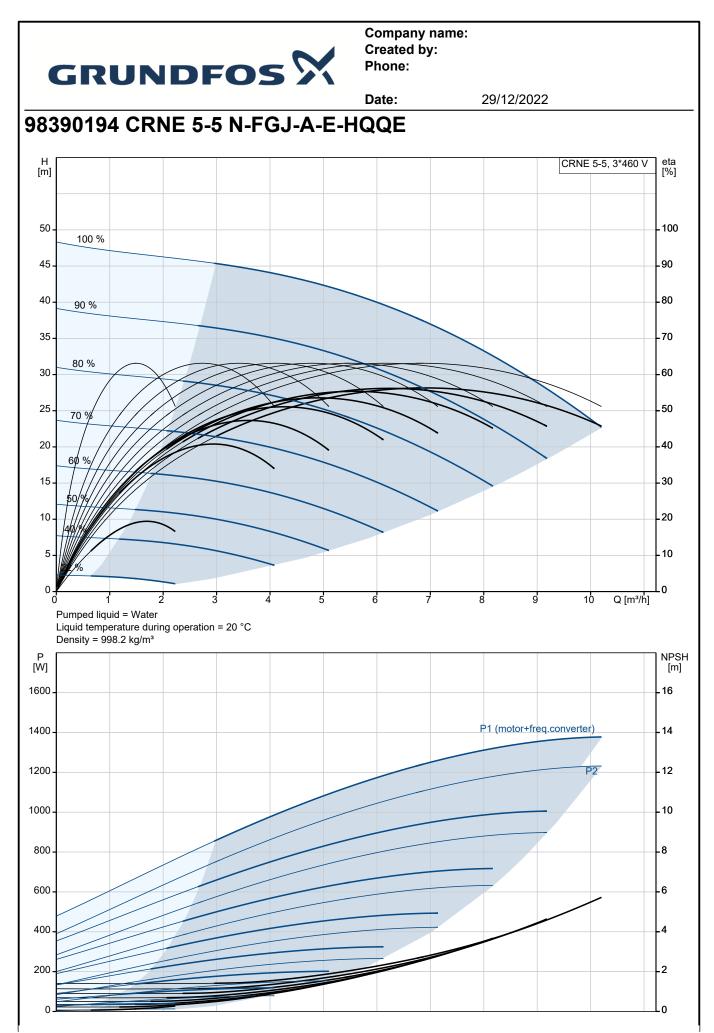
Flange size for motor:

Size of inlet connection:

Size of outlet connection:



Date: 29/12/2022 Qty. | Description 1 Electrical data: Motor standard: IEC 90SC Motor type: IE Efficiency class: IE5 Rated power - P2: 1.5 kW Power (P2) required by pump: 1.5 kW Over/undersize motor: Standard motor size Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 2.90-2.40 A Cos phi - power factor: 0.92-0.85 Rated speed: 360-4000 rpm Efficiency: 88.9% Motor efficiency at full load: 88.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F 98190189 Motor No: Controls: Frequency converter: Built-in Pressure sensor: Υ Others: Minimum efficiency index, MEI ≥: 0.57 Net weight: 31.3 kg Gross weight: 34.2 kg Shipping volume: 0.143 m³



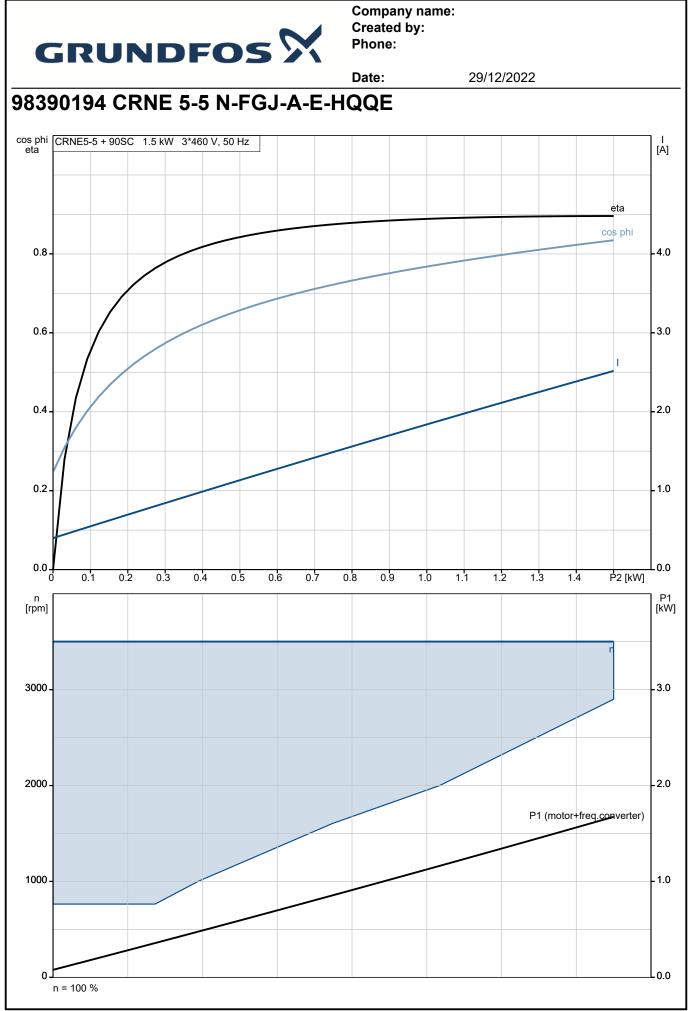


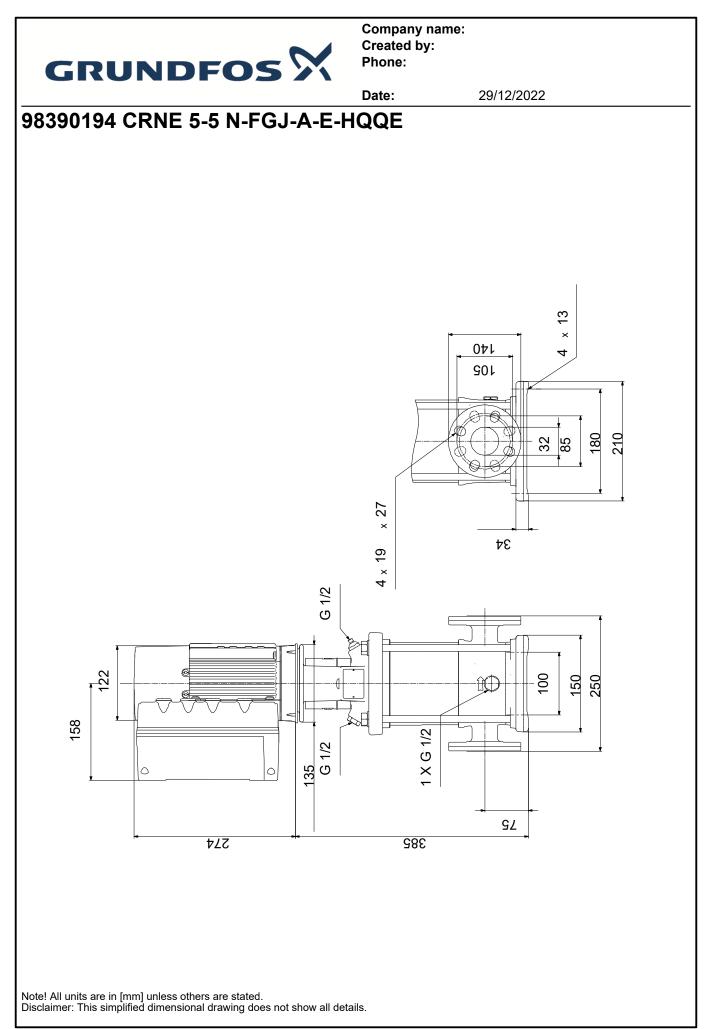
		Date: 29/12/2022	
Description	Value	H [m]	60 V
General information:			
Product name:	CRNE 5-5 N-FGJ-A-E-HQQE	50 - 100 %	
Product No:	98390194		
EAN number:	5711494192472	40 - 90 %	
Technical:	57 11454 152472	35	
Pump speed on which pump data are based:	3501 rpm	30-80%	
Rated flow:	6.9 m³/h	25-70%	- *
Rated head:	36.5 m	20 60 %	
Maximum head:	51.5 m	15	
		50 //	
Stages:	5	10-	+2
Impellers:	5	5	
Number of reduced-diameter impellers:	0	0	\square
Low NPSH:	Ν	0 1 2 3 4 5 6 7 8 9 Q[r	n³/h]
Pump orientation:	Vertical	Pumped liquid = Water	
Shaft seal arrangement:	Single	Liquid temperature during operation = 20 °C Density = 998.2 kg/m ³	
Code for shaft seal:	HQQE	P	- N
Approvals:	CE,EAC,UKCA,SEPRO		
Approvals for drinking water:	WRAS,ACS	1400 - P1 (motor+freq.converter)	
Curve tolerance:	ISO9906:2012 3B	1400	
Pump version:	N	1200-P2	
Model:	A	1000	
Materials:		800	
Base:	Stainless steel		
		600	
Base:	EN 1.4408	400	
Base:	AISI 316	200	2
Impeller:	Stainless steel		
Impeller:	EN 1.4401	_	
Impeller:	AISI 316	T	
Material code:	A	158	
Code for rubber:	E	122	
Bearing:	SIC		
Installation:			
t max amb:	50 °C		
Maximum operating pressure:	25 bar		
Max pressure at stated temp:	25 bar / 120 °C	G 1/2 G 1/2	
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		
	DN 25/32 PN 25		
Pressure rating for connection:		150 250 180 4 × 13	
Flange rating inlet:	300 lb	210	
Flange size for motor:	FT115		
Connect code:	FGJ		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-20 120 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³		
Electrical data:	5		
Motor standard:	IEC		
Motor type:	90SC		
IE Efficiency class:	IE5		
Rated power - P2:	1.5 kW		
Power (P2) required by pump:	1.5 kW	E dona v E dona i T i no	
Over/undersize motor:	Standard motor size		
Mains frequency:	50 / 60 Hz		
Rated voltage:	3 x 380-500 V		

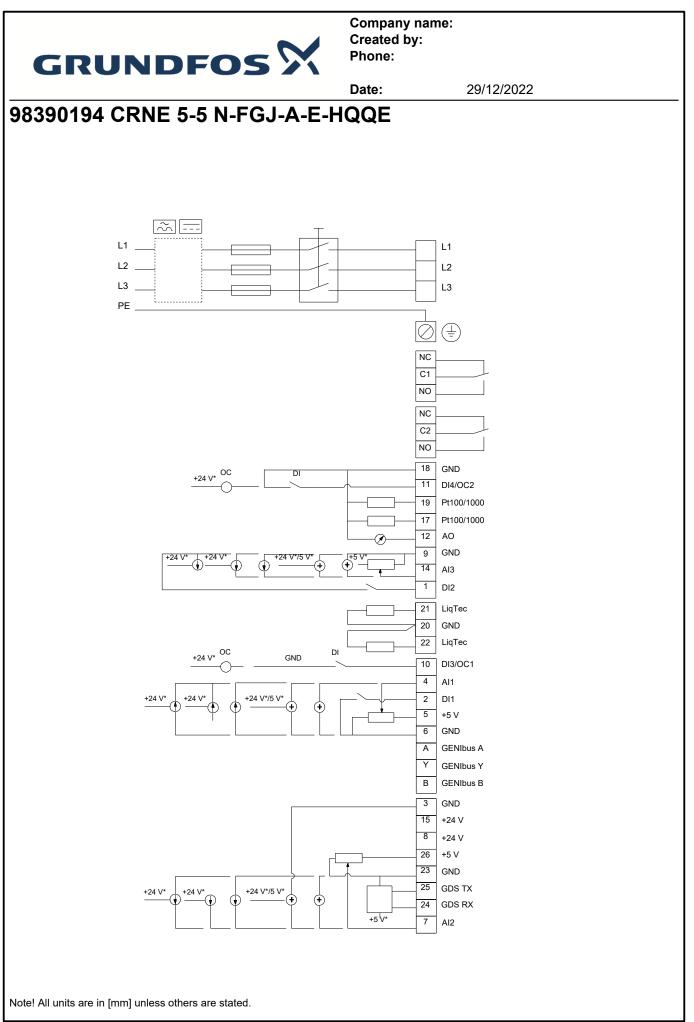
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29/12/2022 Date: Description Value Rated current: 2.90-2.40 A Cos phi - power factor: 0.92-0.85 Rated speed: 360-4000 rpm Efficiency: 88.9% Motor efficiency at full load: 88.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98190189 Controls: Control panel: Standard Function Module: FM300 - Advanced Frequency converter: Built-in Pressure sensor: Y Others: Minimum efficiency index, MEI ≥: 0.57 Net weight: 31.3 kg Gross weight: 34.2 kg 0.143 m³ Shipping volume: 98499074 Config. file no:









Your pos.

Position |

Company name: Created by: Phone:

Date: 29/12/2022 **Order Data:** Total **Product name** Amount | **Product No** 1 98390194 CRNE 5-5 Price on

	CRNE 5-5	1	98390194	Price on request
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