

- 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.

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

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"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:

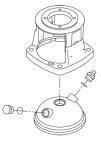
- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

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: 3350 rpm Rated flow: 3.5 m³/h Rated head: 52.4 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

DN 25/32

DN 25/32

PN 25

300 lb

FT100

DIN / ANSI / JIS

Pressure rating for connection:

Type of connection:

Flange rating inlet:

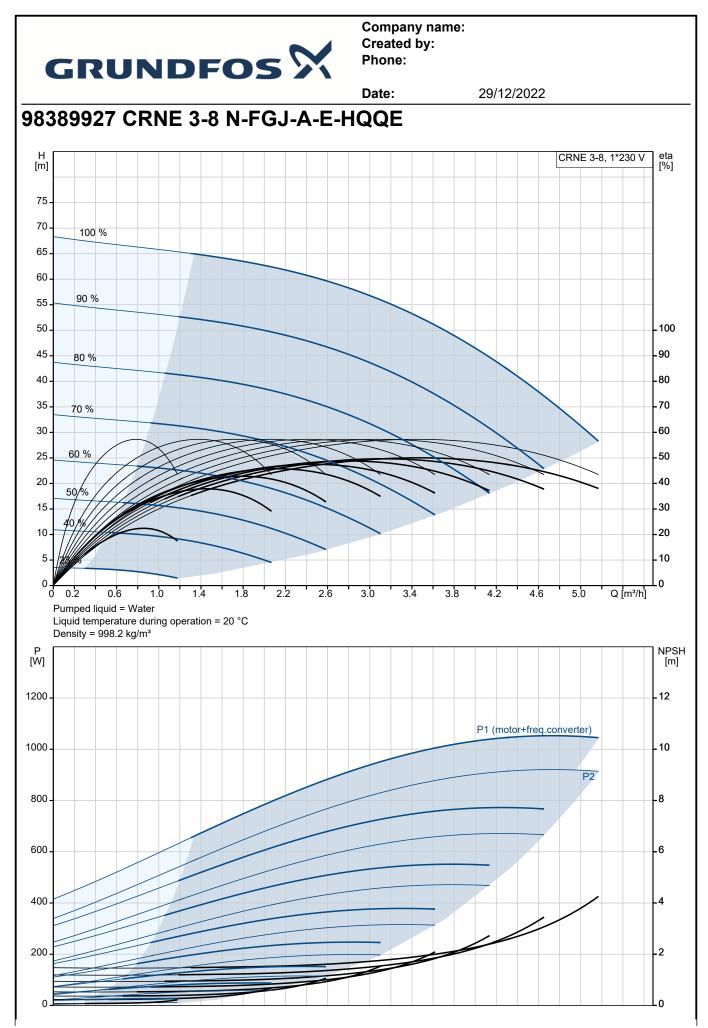
Flange size for motor:

Size of inlet connection:

Size of outlet connection:



Electrical data:    Motor standard:  IEC    Motor type:  80B    E Efficiency class:  IE5    Rated power - P2:  1.1 kW    Power (P2) required by pump:  1.1 kW    Rated voltage:  6.70-5.60 A    Cos phi - power factor:  0.9    Rated speed:  360-4000 rpm    Enclosure	GRUNDFO	<b>JS X</b>	i none.	
Electrical data:IECMotor standard:IECMotor type:80BE Efficiency class:IE5Rated power - P2:1.1 kWPower (P2) required by pump:1.1 kWPower/ndersize motor:Standard motor sizeMains frequency:50 / 60 HzRated voltage:1 x 200-240 VRated current:6.70-5.60 ACos phi - power factor:0.99Rated speed:360-4000 rpmEfficiency:86.9%Motor efficiency at full load:86.9 %Motor No:98248267Controls:FFrequency converter:Built-inPressure sensor:YDthers:0.70Vet weight:27.6 kgGross weight:30.5 kg			Date:	29/12/2022
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Net weight:27.6 kgGross weight:30.5 kg	Others:			
Gross weight: 30.5 kg				
Shipping volume: 0.143 m <sup>3</sup>				
	Shipping volume:	0.143 m³		



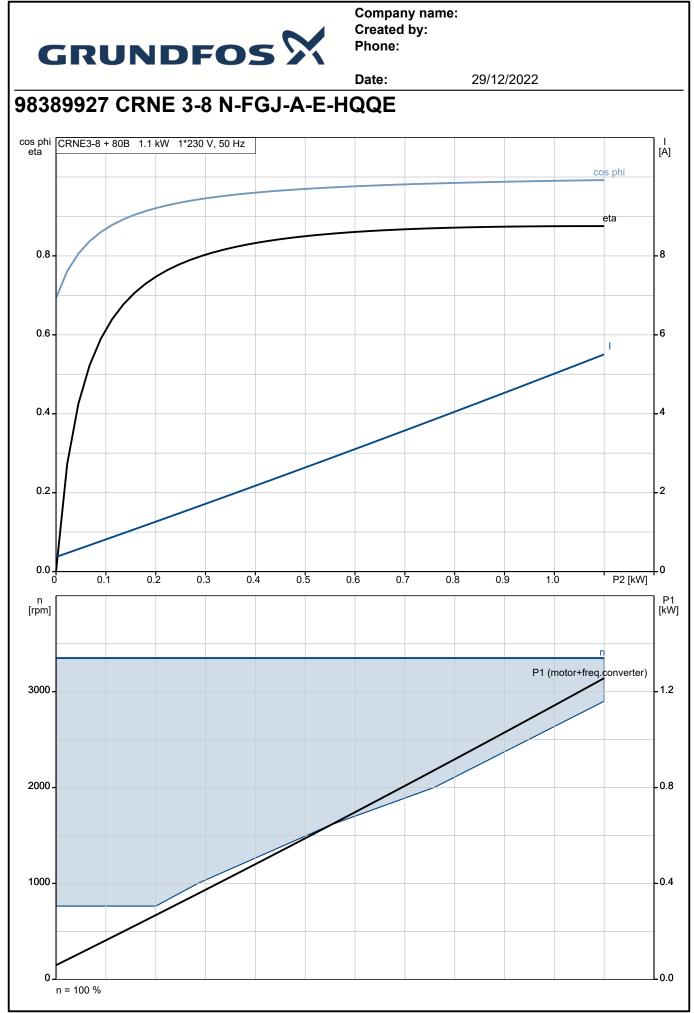


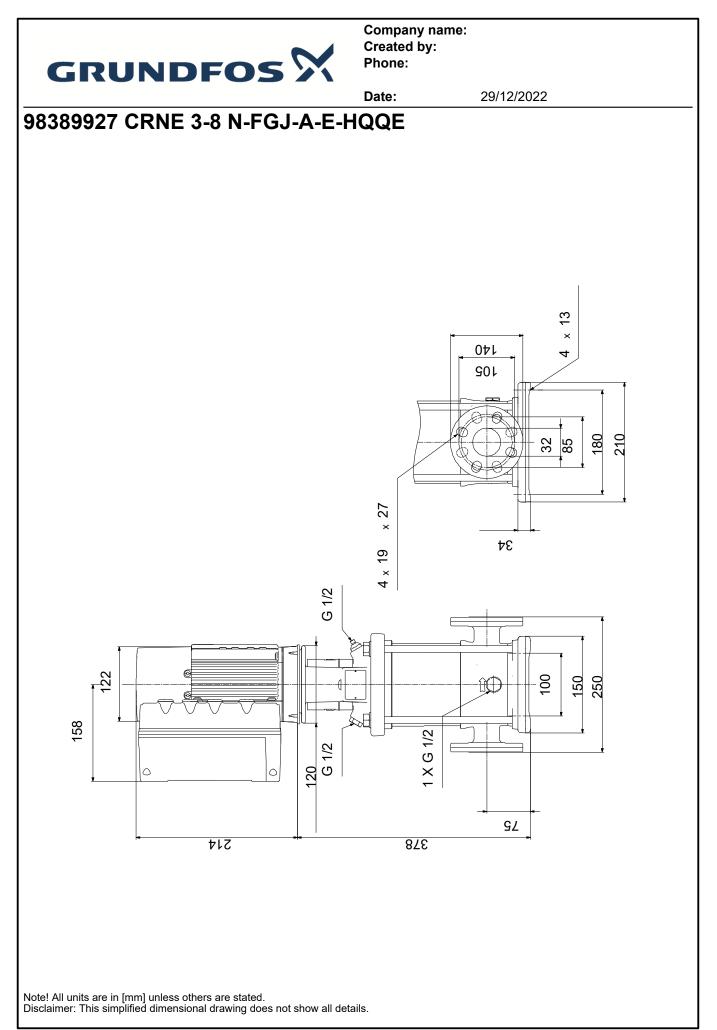
		<b>Date:</b> 29/12/2022
Description	Value	H [m] CRNE 3-8, 1*230 V [%
General information:	Tuldo	
Product name:	CRNE 3-8 N-FGJ-A-E-HQQE	70 - 100 %
Product No:	98389927	60 -
EAN number:	5711494187041	55 90 %
Technical:	5711494187041	50 - 10
Pump speed on which pump data are	3350 rpm	45 80 %
based:	5550 Ipili	40 - 80 - 70 % - 70 %
Rated flow:	3.5 m³/h	30
Rated head:	52.4 m	25 60 %
Maximum head:	73.9 m	20 - 50 % 40
Stages:	8	15 30
Impellers:	8	10 - 20
Number of reduced-diameter impellers:	0	5-0-10
Low NPSH:	Ň	
Pump orientation:	Vertical	0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 Q [m³/h]
•		Pumped liquid = Water Liquid temperature during operation = 20 °C
Shaft seal arrangement:	Single	Density = 998.2 kg/m <sup>3</sup>
Code for shaft seal:	HQQE	P [W]
Approvals:	CE,EAC,UKCA,SEPRO	
Approvals for drinking water:	WRAS,ACS	P1 (motor+freq.converter)
Curve tolerance:	ISO9906:2012 3B	1000 - 10
Pump version:	Ν	P2
Model:	A	800 800
Materials:		600 - 6
Base:	Stainless steel	
Base:	EN 1.4408	400-40
Base:	AISI 316	200
Impeller:	Stainless steel	200
Impeller:	EN 1.4401	0
	AISI 316	
Impeller:		_
Material code:	A	158
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	
Type of connection:	DIN / ANSI / JIS	1 X G 1/2
Size of inlet connection:	DN 25/32	
Size of outlet connection:	DN 25/32	
Pressure rating for connection:	PN 25	100 150 4 × 13
Flange rating inlet:	300 lb	
Flange size for motor:	FT100	
Connect code:	FGJ	
	r0J	
Liquid:		
Pumped liquid:	Water	
Liquid temperature range:	-20 120 °C	* <u></u>
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m³	
Electrical data:		
Motor standard:	IEC	
Motor type:	80B	
IE Efficiency class:	IE5	
Rated power - P2:	1.1 kW	
Power (P2) required by pump:	1.1 kW	
Over/undersize motor:	Standard motor size	i doma v i doma v
Mains frequency:	50 / 60 Hz	
Rated voltage:	1 x 200-240 V	

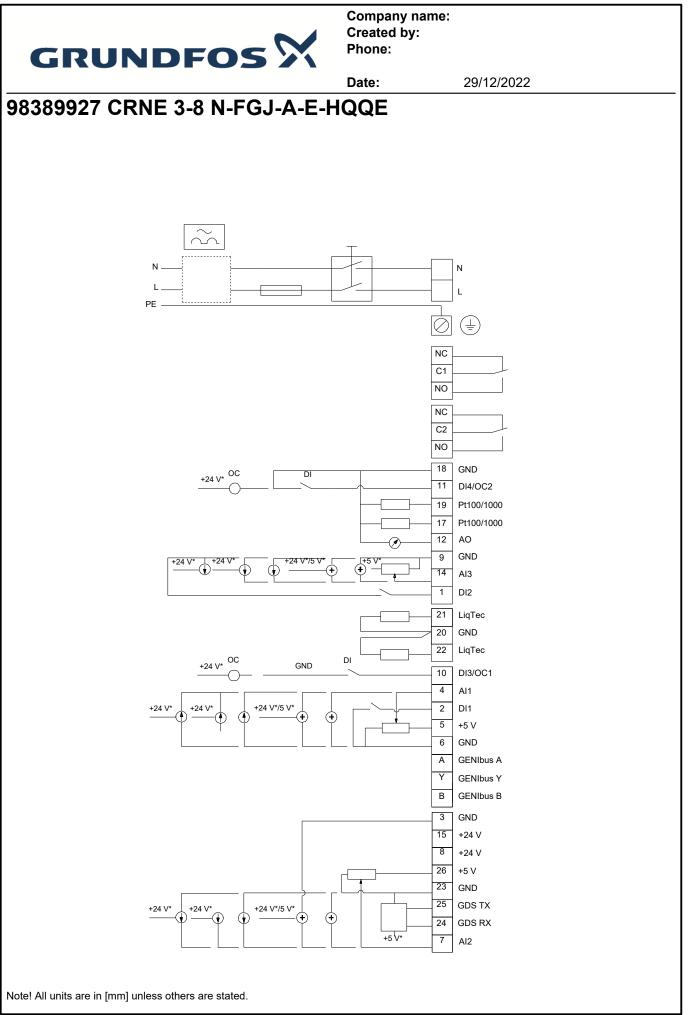
Printed from Grundfos Product Centre [2022.54.006]



29/12/2022 Date: Description Value Rated current: 6.70-5.60 A Cos phi - power factor: 0.99 Rated speed: 360-4000 rpm Efficiency: 86.9% Motor efficiency at full load: 86.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98248267 Controls: Control panel: Standard Function Module: FM300 - Advanced Frequency converter: Built-in Y Pressure sensor: Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 27.6 kg Gross weight: 30.5 kg 0.143 m<sup>3</sup> Shipping volume: 98498702 Config. file no:









Your pos.

Position

Company name: Created by: Phone:

29/12/2022 Date: **Order Data: Product name** Amount **Product No** Total **CRNE 3-8** 1 98389927 Price on

		•	 request