

"Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)



30/11/2022

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:

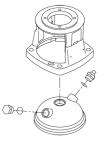
- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

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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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 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

Description

ensure a high efficiency.

Qty. |

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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.

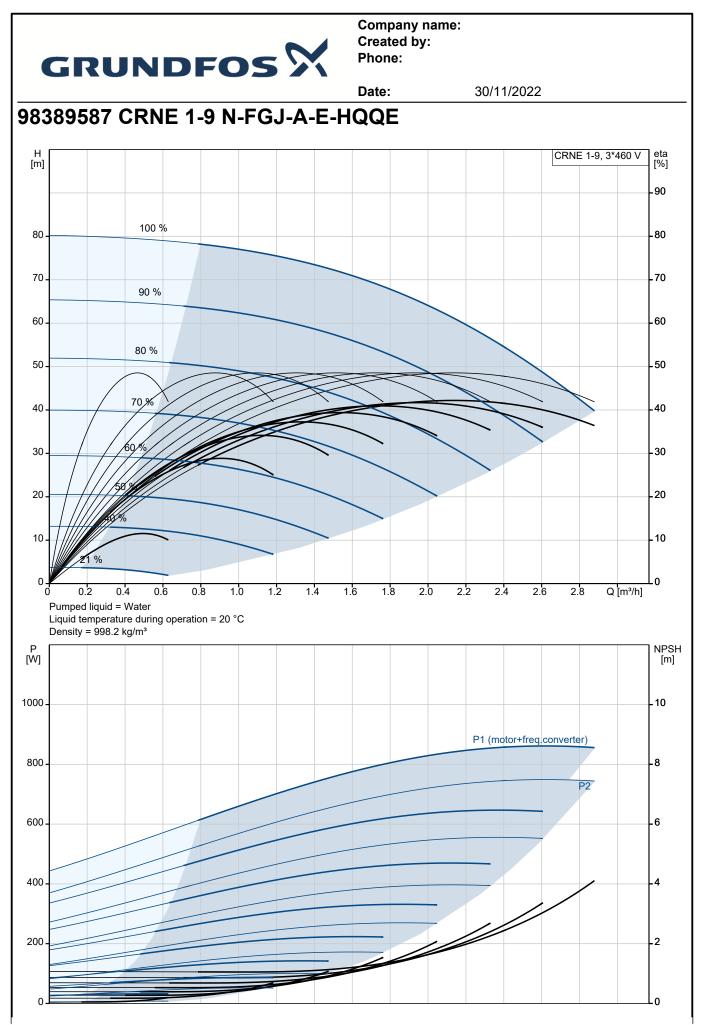
The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Technical data

Liquid: Pumped liquid: 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: 3474 rpm 2.2 m ³ /h 61.2 m Vertical Single HQQE CE,EAC,UKCA,SEPRO WRAS,ACS ISO9906:2012 3B			
Materials: Base:	Stainless steel EN 1.4408			
Impeller:	AISI 316 Stainless steel EN 1.4401 AISI 316			
Bearing:	SIC			
Installation: t max amb: Maximum operating pressure: Max pressure at stated temp:	50 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C			
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange rating inlet: Flange size for motor:	DIN / ANSI / JIS DN 25/32 DN 25/32 PN 25 300 lb FT100			

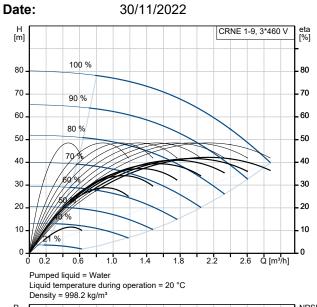


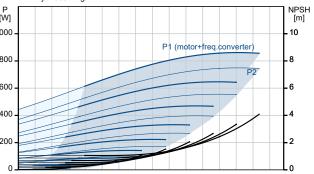
GRUNDF		Date:	30/11/2022	
Description		Date.	50/11/2022	
Electrical data:				
Motor standard:	IEC			
Motor type:	80A			
IE Efficiency class:	IE5			
Rated power - P2:	0.75 kW			
Power (P2) required by pump:				
Over/undersize motor:	Standard motor size			
Mains frequency:	50 / 60 Hz			
Rated voltage:	3 x 380-500 V			
Rated current:	1.70-1.60 A			
Cos phi - power factor:	0.83-0.67			
Rated speed:	360-4000 rpm			
Efficiency:	85.9%			
Motor efficiency at full load:	85.9 %			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Motor No:	98362240			
	30002240			
Controls:				
Frequency converter:	Built-in			
Pressure sensor:	Y			
Others:				
Minimum efficiency index, MEI	≥ [.] 0.70			
Net weight:	28.9 kg			
Gross weight:	31.8 kg			
Shipping volume:	0.143 m ³			
Shipping volume.	0.145111			

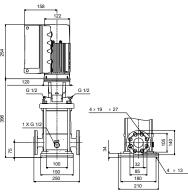


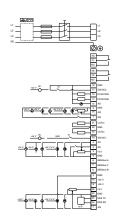


Description	Value
General information:	
Product name:	CRNE 1-9 N-FGJ-A-E-HQQE
Product No:	98389587
EAN number:	5711494181506
Fechnical:	
Pump speed on which pump data are ased:	3474 rpm
Rated flow:	2.2 m³/h
Rated head:	61.2 m
/laximum head:	80.8 m
stages:	9
npellers:	9
lumber of reduced-diameter impellers:	0
ow NPSH:	Ν
ump orientation:	Vertical
haft seal arrangement:	Single
ode for shaft seal:	HQQE
pprovals:	CE,EAC,UKCA,SEPRO
pprovals for drinking water:	WRAS.ACS
curve tolerance:	ISO9906:2012 3B
ump version:	N
lodel:	A
laterials:	
aleriais. ase:	Stainless steel
ase:	EN 1.4408
ase:	AISI 316
	Stainless steel
npeller:	
npeller:	EN 1.4401
npeller:	AISI 316
aterial code:	A
ode for rubber:	E
earing:	SIC
stallation:	
max amb:	50 °C
aximum operating pressure:	25 bar
ax pressure at stated temp:	25 bar / 120 °C
ax pressure at stated temp:	25 bar / -20 °C
/pe of connection:	DIN / ANSI / JIS
ize of inlet connection:	DN 25/32
ize of outlet connection:	DN 25/32
ressure rating for connection:	PN 25
ange rating inlet:	300 lb
ange size for motor:	FT100
onnect code:	FGJ
quid:	
umped liquid:	Water
quid temperature range:	-20 120 °C
elected liquid temperature:	20 °C
ensity:	998.2 kg/m ³
ectrical data:	500.2 Ng/11
otor standard:	IEC
	80A
lotor type:	
Efficiency class:	IE5
ated power - P2:	0.75 kW
ower (P2) required by pump:	0.75 kW
ver/undersize motor:	Standard motor size
	50 / 00 / 1
lains frequency: ated voltage:	50 / 60 Hz 3 x 380-500 V





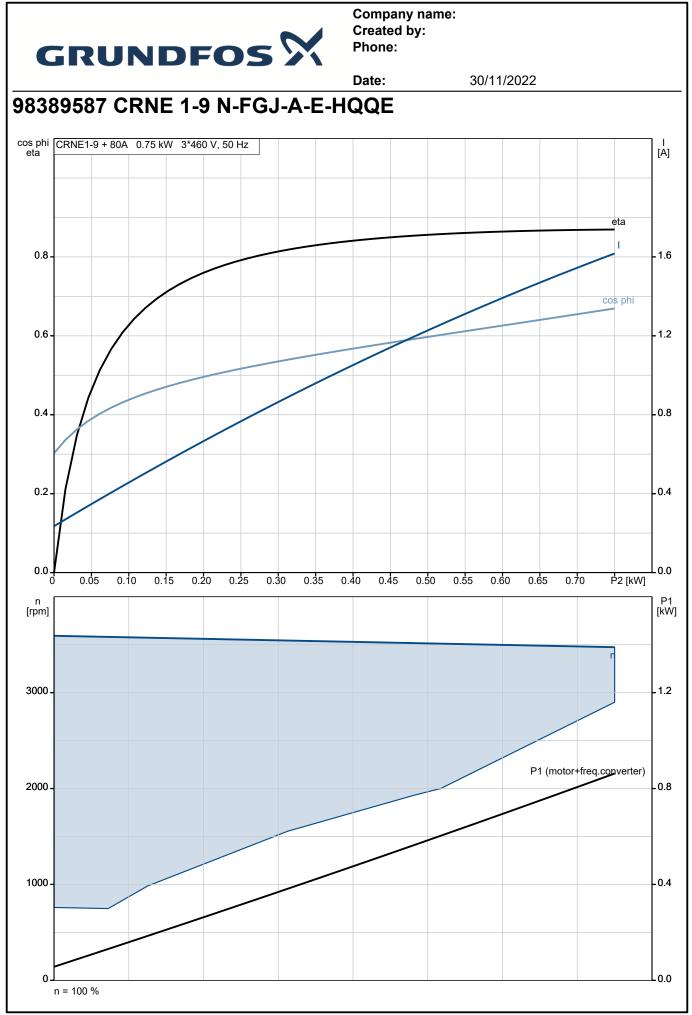




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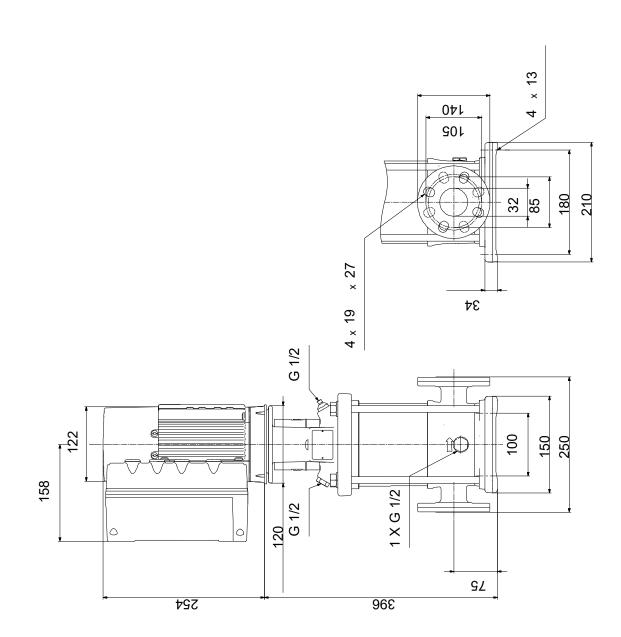
30/11/2022 Date: Description Value Rated current: 1.70-1.60 A Cos phi - power factor: 0.83-0.67 Rated speed: 360-4000 rpm Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98362240 Controls: Control panel: Standard Function Module: FM300 - Advanced Frequency converter: Built-in Y Pressure sensor: Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 28.9 kg Gross weight: 31.8 kg 0.143 m³ Shipping volume: 98498425 Config. file no:



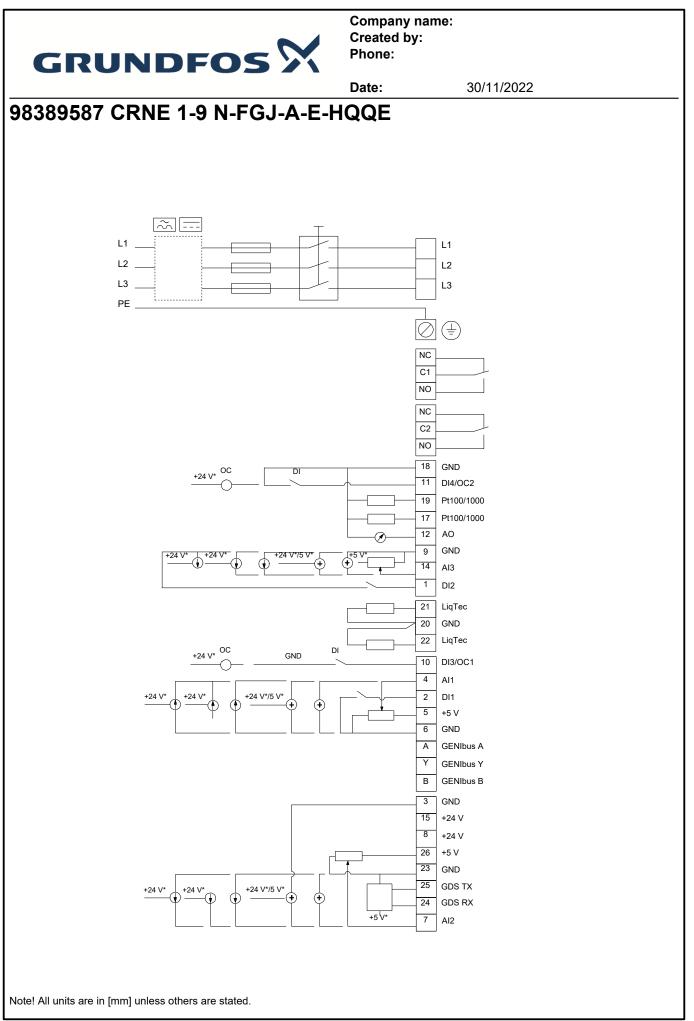


30/11/2022

98389587 CRNE 1-9 N-FGJ-A-E-HQQE



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





30/11/2022 Date: Order Data:

Position	Your pos.	Product name	Amount	Product No	Total
		CRNE 1-9	1	98389587	Price on request