

	Date: 30/11/2022
y .	Description
	CRN 3-13 A-FGJ-H-E-HQQE
	Product No.: 96522072
	Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via combined DIN-ANSI-JIS flanges.
	The pump is fitted with a 3-phase, fan-cooled asynchronous motor.
	Further product details
	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.



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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.

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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.

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 IE3 in accordance with IEC 60034-30-1.

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

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: 2853 rpm 3 m³/h 61.3 m Vertical Single HQQE CE,EAC,UKCA,SEPRO WRAS,ACS ISO9906:2012 3B
Materials: Base:	Stainless steel

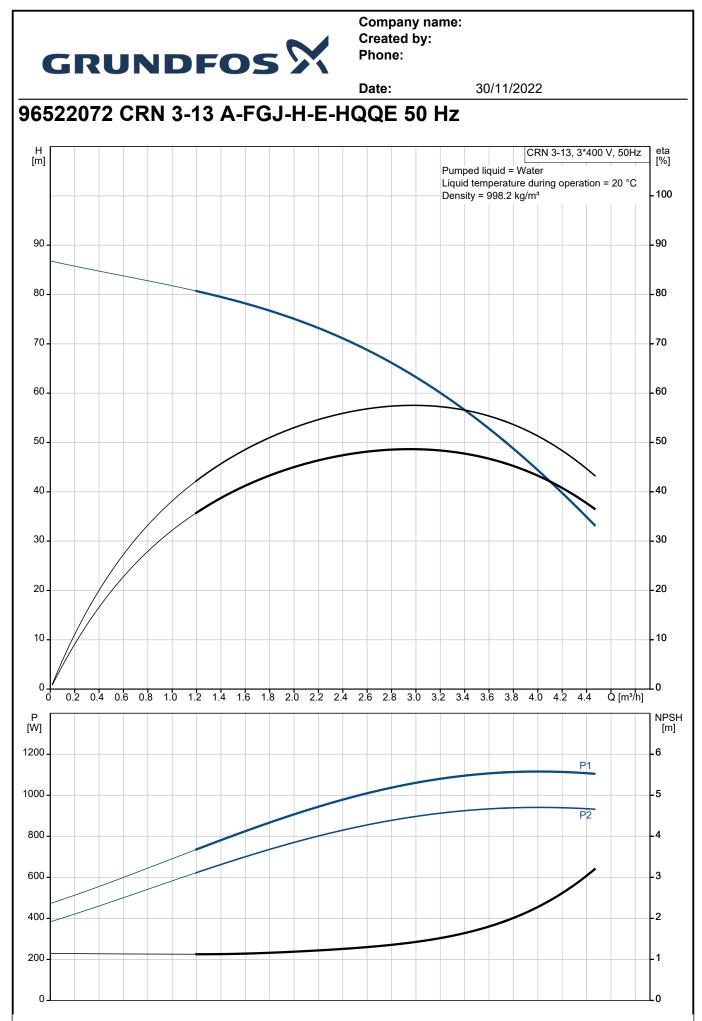


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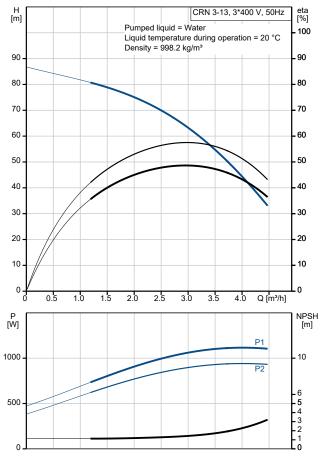
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- 1	Description			
	-	EN 1.4408		
		AISI 316		
	Impeller:	Stainless steel		
	Impeller.	EN 1.4401		
		AISI 316		
	Bearing:	SIC		
	Installation:			
	t max amb:	60 °C		
	Maximum operating pressure:	25 bar		
	Max pressure at stated temp:	25 bar / 120 °C		
		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:	FT100		
	Electrical data:			
	Motor standard:	IEC		
	Motor type:	80C		
	IE Efficiency class:	IE3		
	Rated power - P2:	1.1 kW		
	Power (P2) required by pump:	1.1 kW		
	Mains frequency:	50 Hz		
	Rated voltage:	3 x 220-240D/380-415Y V		
	Rated current:	4.35/2.50 A		
	Starting current:	450-500 %		
	Cos phi - power factor:	0.83-0.76		
	Rated speed:	2840-2870 rpm		
	Efficiency:	IE3 82,7%		
	Motor efficiency at full load:	82.7 %		
	Motor efficiency at 3/4 load:	84.6 %		
	Motor efficiency at 1/2 load:	85.4 %		
	Number of poles:	2		
	Enclosure class (IEC 34-5):	55 Dust/Jetting		
	Insulation class (IEC 85):	F		
	Motor No:	85U05105		
		00000100		
	Controls:			
		NONE		
	Controls: Frequency converter:	NONE		
	Controls: Frequency converter: Others:			
	Controls: Frequency converter: Others: Minimum efficiency index, MEI ≥:	0.70		
	Controls: Frequency converter: Others: Minimum efficiency index, MEI ≥: Net weight:	0.70 28 kg		
	Controls: Frequency converter: Others: Minimum efficiency index, MEI ≥:	0.70		

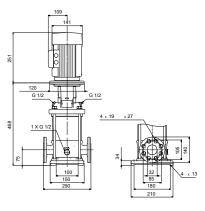


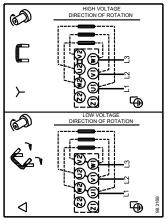


Description	Value	H [m]
General information:	, and	
Product name:	CRN 3-13	
	A-FGJ-H-E-HQQE	90 -
Product No:	96522072	80
EAN number:	5700396876153	_ 00.
Technical:		70.
Pump speed on which pump data are based:	2853 rpm	60.
Rated flow:	3 m³/h	
Rated head:	61.3 m	50.
Maximum head:	85.5 m	40
Stages:	13	_ 40.
mpellers:	13	30
Number of reduced-diameter impellers:	0	
Low NPSH:	Ν	20
Pump orientation:	Vertical	
Shaft seal arrangement:	Single	10.
Code for shaft seal:	HQQE	-
Approvals:	CE,EAC,UKCA,SEPRO	0.
Approvals for drinking water:	WRAS,ACS	Р
Curve tolerance:	ISO9906:2012 3B	[Ŵ]
Pump version:	A	
Model:	A	1000
Model. Materials:	~	
Base:	Stainless steel	
Base:	EN 1.4408	500
	AISI 316	
Base:		
mpeller:	Stainless steel	- 0.
mpeller:	EN 1.4401	-1
mpeller:	AISI 316	-
Material code:	Н	
Code for rubber:	E	
Bearing:	SIC	_
nstallation:		251
max amb:	60 °C	
Maximum operating pressure:	25 bar	_
Max pressure at stated temp:	25 bar / 120 °C	
Max pressure at stated temp:	25 bar / -20 °C	468
Type of connection:	DIN / ANSI / JIS	4
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:	FT100	
Connect code:	FGJ	
Liquid:		عميم ا
Pumped liquid:	Water	- 0
_iquid temperature range:	-20 120 °C	
Selected liquid temperature:	20 °C	- [
Density:	998.2 kg/m³	- "
Electrical data:		- 、
Motor standard:	IEC	- ≻
Motor type:	80C	
E Efficiency class:	IE3	- 6
Rated power - P2:	1.1 kW	-
Power (P2) required by pump:	1.1 kW	- 🗲
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Mains frequency:	50 Hz	



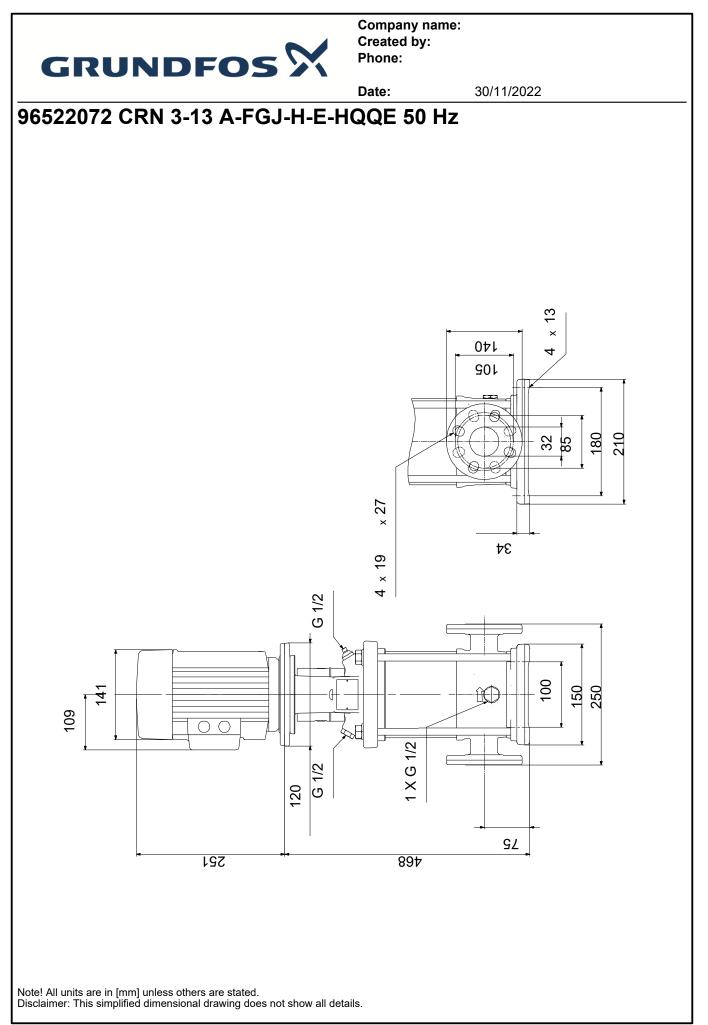
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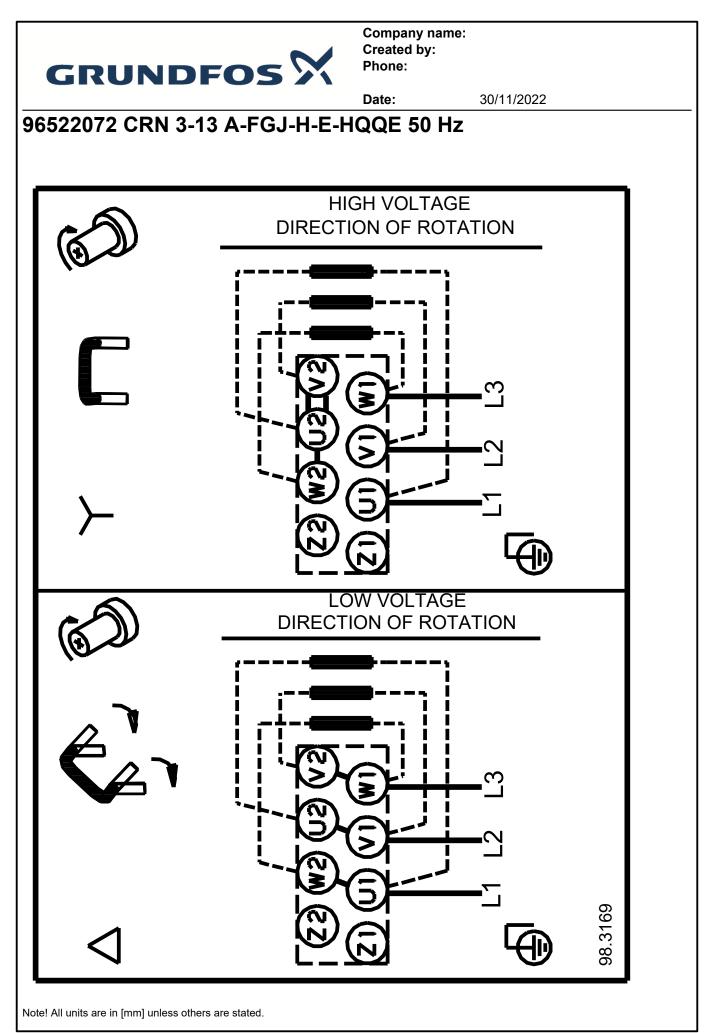






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Rated current:	4.35/2.50 A			
Starting current:	450-500 %			
Cos phi - power factor:	0.83-0.76			
Rated speed:	2840-2870 rpm			
Efficiency:	IE3 82,7%			
Motor efficiency at full load:	82.7 %			
Motor efficiency at 3/4 load:	84.6 %			
Motor efficiency at 1/2 load:	85.4 %			
Number of poles:	2			
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Built-in motor protection:	NONE			
Motor No:	85U05105			
Controls:				
Frequency converter:	NONE			
Others:				
Minimum efficiency index, MEI ≥:	0.70			
Net weight:	28 kg			
Gross weight:	30.9 kg			
Shipping volume:	0.074 m³			
Sales region:	Great Britain			







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Position

Company name: Created by: Phone:

Date: 30/11/2022 **Order Data:** Total **Product name** Amount **Product No** CRN 3-13 1 96522072 Price on request

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