

Company name: Created by:

	SRUNDFOS Phone: Date: 30/11/2022
	Description
	CRN 3-27 A-FGJ-H-E-HQQE
	Note! Product picture may differ from actual product
	Product No.: 96531598
	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: Alkaline-based cleaning. Zinc phosphating. Cathodic electro-deposition. 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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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).

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

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:	a are based: 2899 rpm 3 m ³ /h 131 m Vertical Single HQQE CE,EAC,UKCA,SEPRO WRAS,ACS ISO9906:2012 3B



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Description Materials:

Base:

Impeller:

Bearing:

Installation: t max amb:

Motor type:

Rated current:

Rated speed:

Efficiency:

Starting current:

Cos phi - power factor:

Motor efficiency at full load:

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Stainless steel EN 1.4408 AISI 316 Stainless steel EN 1.4401 AISI 316 SIC 60 °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: FT115 Electrical data: Motor standard: IEC 90LE IE Efficiency class: IE3 Rated power - P2: 2.2 kW Power (P2) required by pump: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V 8.00/4.60 A

> 840-920 % 0.86-0.80

IE3 85,9%

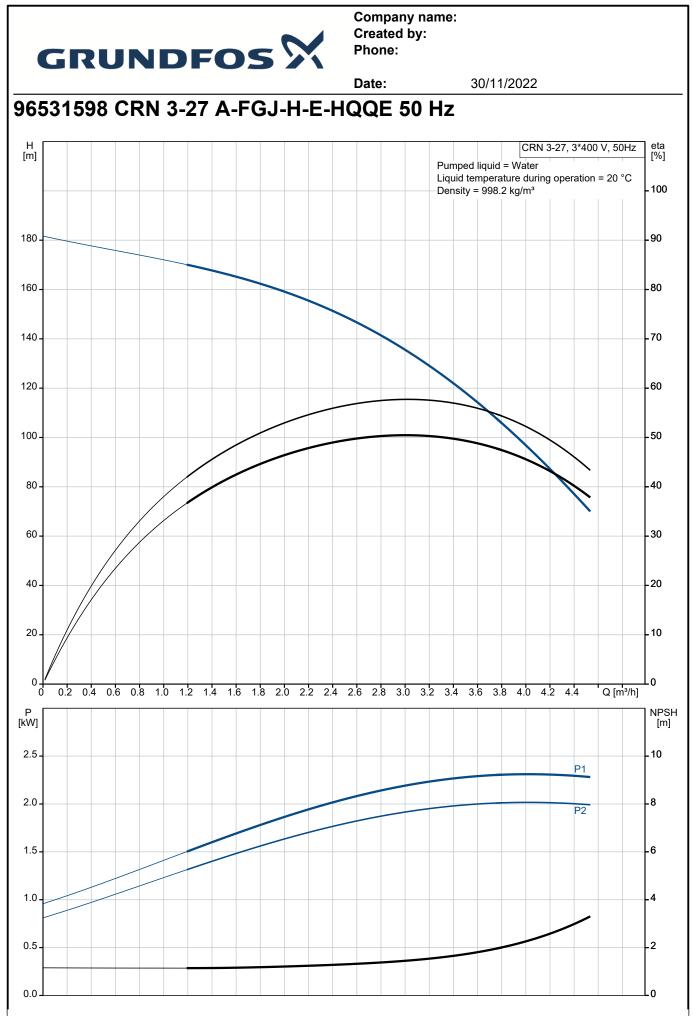
88.2 %

85.9-85.9 %

2890-2910 rpm

Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: 88.0 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85U01908 Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70

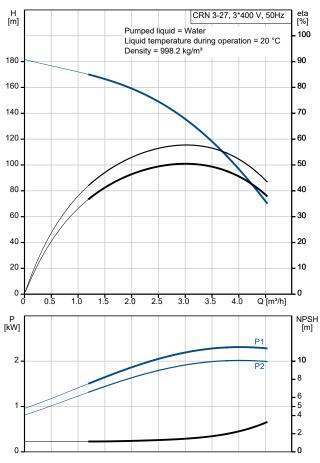
Net weight: 43.4 kg Gross weight: 46.3 kg Shipping volume: 0.13 m³



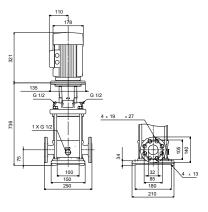


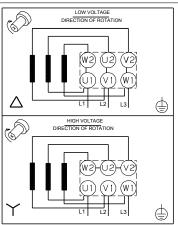
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Description	Value	H [m]
General information:		
Product name:	CRN 3-27 A-FGJ-H-E-HQQE	180 -
Product No:	96531598	
EAN number:	5700397295786	160 -
Technical:	0100001200100	140 -
Pump speed on which pump data are based:	2899 rpm	120 -
Rated flow:	3 m³/h	
Rated head:	131 m	100 -
Maximum head:	179 m	-
Stages	27	80 -
Impellers:	27	60 -
Number of reduced-diameter impellers:	0	
Low NPSH:	N	40 -
Pump orientation:	Vertical	
Shaft seal arrangement:	Single	20 -
Code for shaft seal:	HQQE	_
Approvals:	CE,EAC,UKCA,SEPRO	- 0 -
Approvals for drinking water:	WRAS,ACS	Р
Curve tolerance:	ISO9906:2012 3B	[kW]
Pump version:	A	
Model:	A	2.
Materials:		
Base:	Stainless steel	
Base:	EN 1.4408	- 1-
Base:	AISI 316	
Impeller:	Stainless steel	
Impeller:	EN 1.4401	0.
Impeller:	AISI 316	- 7
Material code:	Н	
Code for rubber:	E	
Bearing:	SIC	- r
Installation:		- 5
t max amb:	60 °C	321
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	736
Size of inlet connection:	DN 25/32	-
Size of outlet connection:	DN 25/32	7
Pressure rating for connection:	PN 25	
Flange rating inlet:	300 lb	
Flange size for motor:	FT115	
Connect code:	FGJ	
Liquid:		- 6
Pumped liquid:	Water	- 🏵
Liquid temperature range:	-20 120 °C	-
Selected liquid temperature:	20 °C	-
Density:	998.2 kg/m³	-
Electrical data:	-	-
Motor standard:	IEC	$- \mid \Delta$
Motor type:	90LE	- 6
IE Efficiency class:	IE3	- 6
Rated power - P2:	2.2 kW	- `
Power (P2) required by pump:	2.2 kW	-
		1
Mains frequency:	50 Hz	-



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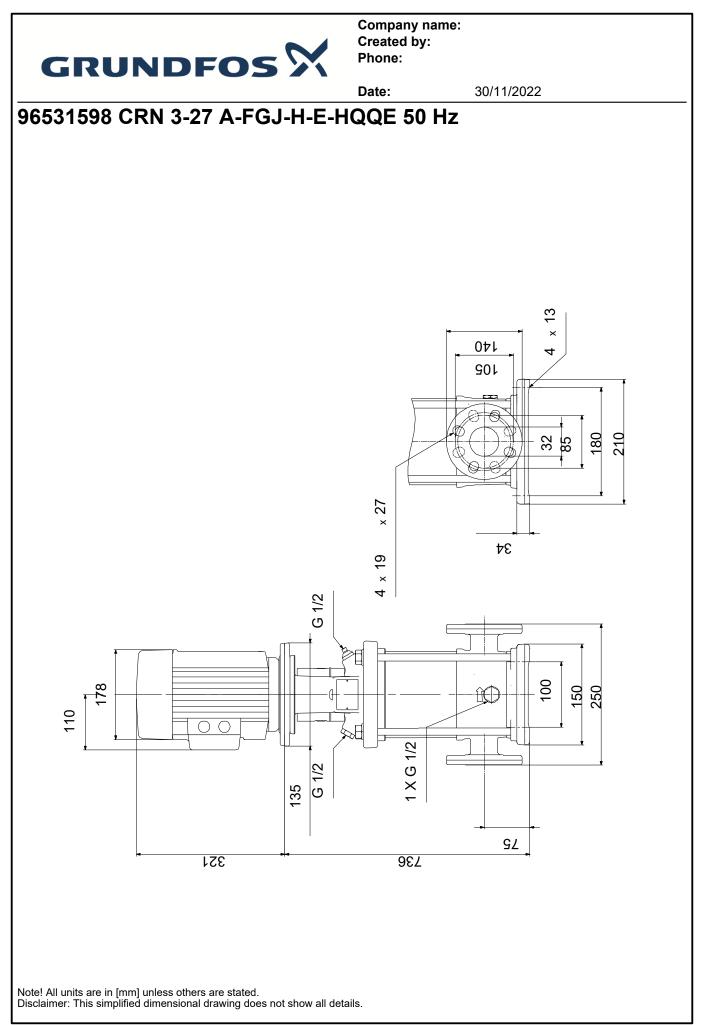






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		Date:	
Description	Malua		
Description Rated current:	Value		
	8.00/4.60 A		
Starting current:	840-920 %		
Cos phi - power factor:	0.86-0.80		
Rated speed:	2890-2910 rpm		
Efficiency:	IE3 85,9%		
Motor efficiency at full load:	85.9-85.9 %		
Motor efficiency at 3/4 load:	88.2 %		
Motor efficiency at 1/2 load:	88.0 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Built-in motor protection:	NONE		
Motor No:	85U01908		
Controls:			
Frequency converter:	NONE		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	43.4 kg		
Gross weight:	46.3 kg		
Shipping volume:	0.13 m³		
Sales region:	Great Britain		





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Position

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Date: 30/11/2022 **Order Data:** Total **Product name** Amount **Product No** CRN 3-27 1 96531598 Price on request

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