

Company name: Created by:

Phone: Date: 30/11/2022 Description Qty. CRN 5-24 A-FGJ-H-E-HQQE 1 Note! Product picture may differ from actual product Product No.: 96531678 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. (MA 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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Qty. | Description

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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.

Date:

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 has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.

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

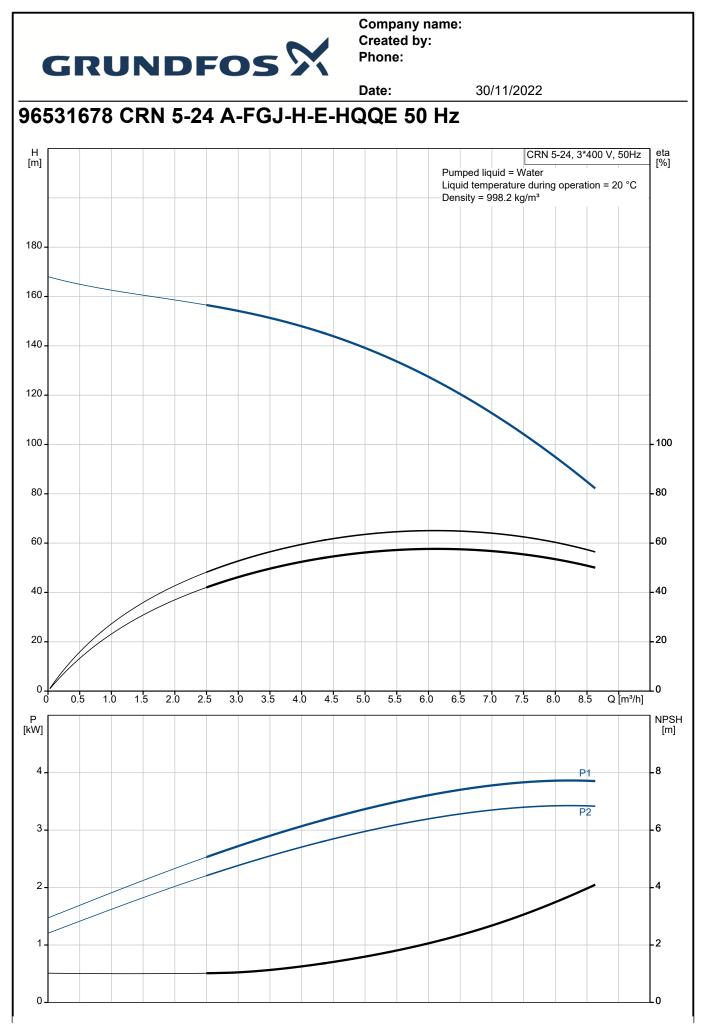
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -20 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals: Approvals for drinking water:	a are based: 2917 rpm 5.8 m³/h 125.5 m Vertical Single HQQE CE,EAC,UKCA,SEPRO WRAS,ACS



Date:

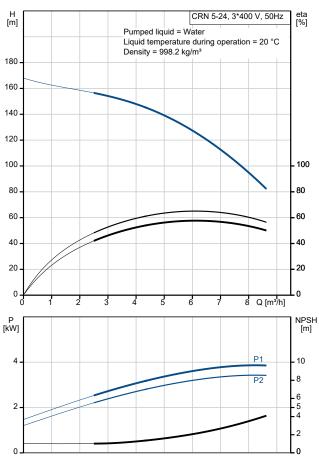
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			Date:	30/11/2022	
Qty.	Description				
1	Curve tolerance:	ISO9906:2012 3B			
l	Materials:				
	Base:	Stainless steel			
		EN 1.4408 AISI 316			
l	Impeller:	Stainless steel			
		EN 1.4401			
l		AISI 316			
	Bearing:	SIC			
	1				
	Installation:	60 °C			
	t max amb: Maximum operating pressure:	25 bar			
	Maximum operating pressure. 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:	FT130			
	Electrical data:				
	Motor standard:	IEC			
	Motor type:	112MC			
	IE Efficiency class:	IE3			
	Rated power - P2:	4 kW			
	Power (P2) required by pump:	4 kW			
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 380-415D V			
l	Rated current:	7.9 A			
	Starting current:	1000-1110 %			
	Cos phi - power factor:	0.87-0.87			
	Rated speed: Efficiency:	2920-2940 rpm IE3 88,1%			
	Motor efficiency at full load:	88.1 %			
	Motor efficiency at 3/4 load:	88.6 %			
	Motor efficiency at 1/2 load:	85.2 %			
	Number of poles:	2			
	Enclosure class (IEC 34-5):	55 Dust/Jetting			
	Insulation class (IEC 85):	F			
	Motor No:	85U15413			
	Controls:				
	Frequency converter:	NONE			
	Others:				
	Minimum efficiency index, MEI ≥	: 0.57			
	Net weight:	63.4 kg			
	Gross weight:	68.1 kg			
	Shipping volume:	0.148 m ³			
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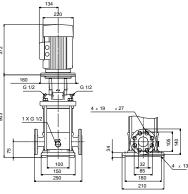


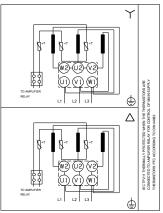


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Description	Value	[
General information:		
Product name:	CRN 5-24 A-FGJ-H-E-HQQE	1
Product No:	96531678	
EAN number:	5700397305812	1
Fechnical:	0100001000012	-
Pump speed on which pump data are pased:	2917 rpm	1
Rated flow [.]	5.8 m³/h	_ '
Rated head:	125.5 m	- 1
Maximum head:	163.9 m	
	24	
Stages:		
mpellers:	24	
Number of reduced-diameter impellers:	0	
Low NPSH:	N	
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	[
Pump version:	Α	
Model:	Α	
Materials:		
Base:	Stainless steel	
Base:	EN 1.4408	
Base:	AISI 316	
mpeller:	Stainless steel	
mpeller:	EN 1.4401	
mpeller:	AISI 316	- 7
Material code:	Н	
Code for rubber:	F	
	SIC	
Bearing: nstallation:	310	
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	
Гуре 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:	FT130	
Connect code:	FGJ	_
_iquid:		
Pumped liquid:	Water	
iquid temperature range:	-20 120 °C	
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m³	
Electrical data:	-	
Motor standard:	IEC	
Motor type:	112MC	
E Efficiency class:	IE3	
Rated power - P2:	4 kW	
•	4 kW	
Power (P2) required by pump:		
Mains frequency:	50 Hz 3 x 380-415D V	
Rated voltage:		



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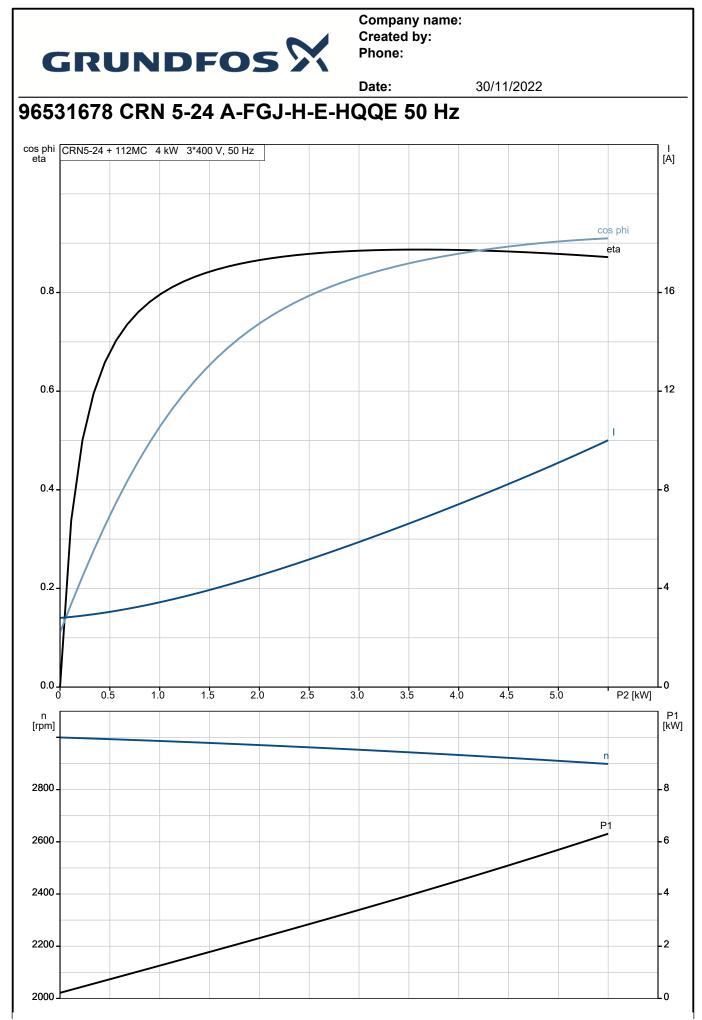




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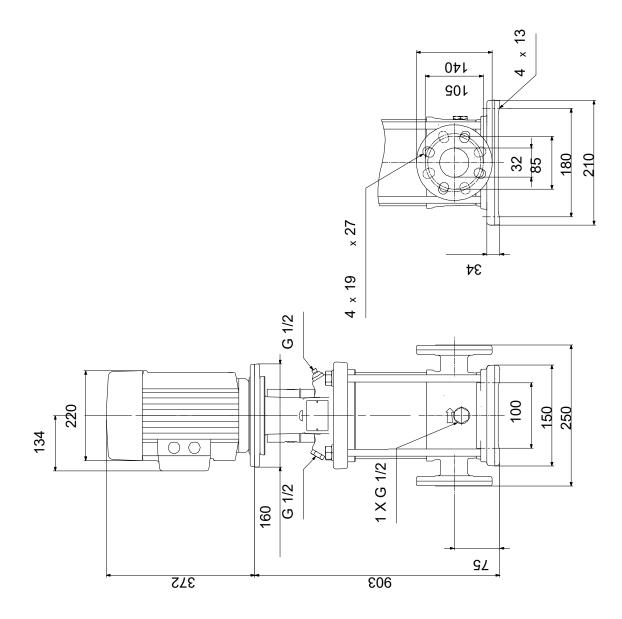
		Date:	30/11/2022
Description	Value		
Starting current:	1000-1110 %		
Cos phi - power factor:	0.87-0.87		
Rated speed:	2920-2940 rpm		
Efficiency:	IE3 88,1%		
Motor efficiency at full load:	88.1 %		
Motor efficiency at 3/4 load:	88.6 %		
Motor efficiency at 1/2 load:	85.2 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Built-in motor protection:	PTC		
Motor No:	85U15413		
Controls:			
Frequency converter:	NONE		
Others:			
Minimum efficiency index, MEI ≥:	0.57		
Net weight:	63.4 kg		
Gross weight:	68.1 kg		
Shipping volume:	0.148 m³		
Sales region:	Great Britain		



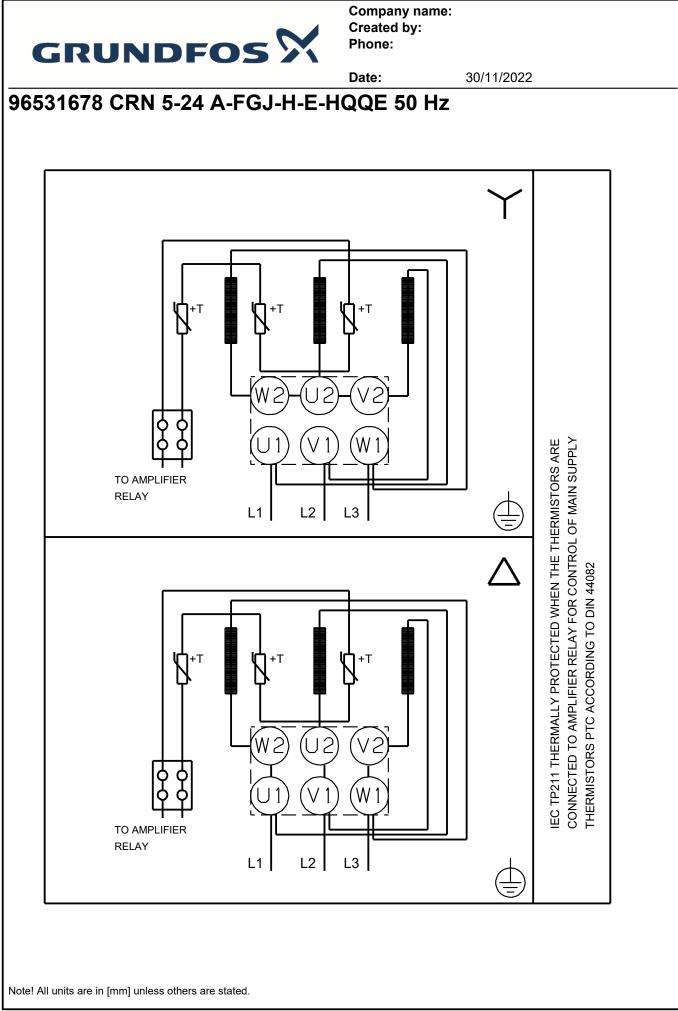


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96531678 CRN 5-24 A-FGJ-H-E-HQQE 50 Hz



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





CRN 5-24

Your pos.

Position

Company name: Created by: Phone:

30/11/2022 Date: **Order Data:** Total **Product name** Amount **Product No** 1 96531678 Price on request

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