



Company name: Created by: Phone:

30/11/2022

#### Qty. | Description

1

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.



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.

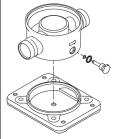
The pump has a stainless-steel base mounted on a separate base plate.

The 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 base is prepared for connection by means of PJE (Victualic®) couplings.



### 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).

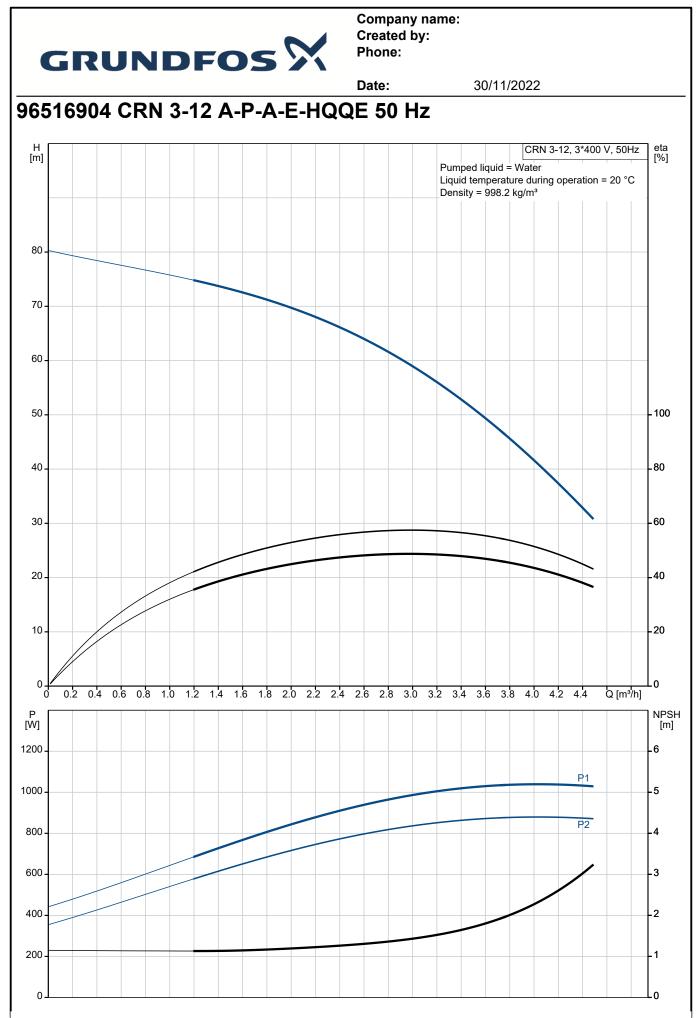
## **Technical data**

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:	are based: 3 m³/h	2853 rpm



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		Date:	30/11/2022
Qty.	Description		
1	Rated head:	57 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	
		1309900.2012 30	
	Materials:		
	Base:	Stainless steel	
		EN 1.4408	
		AISI 316	
	Impeller:	Stainless steel	
		EN 1.4401	
		AISI 316	
	Decesien		
	Bearing:	SIC	
	Installation:		
	t 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	
	Turne of compactions		
	Type of connection:	PJE	
	Size of inlet connection:	DN 32	
	Size of outlet connection:	DN 32	
	Pressure rating for connection:	PN 50	
	Flange size for motor:	FT100	
	Electrical data:		
	Motor standard:	IEC	
		80C	
	Motor type:		
	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	
	Controlo		
	Controls: Frequency converter:	NONE	
	Others:		
	Minimum efficiency index, MEI ≥:	0.70	
	Net weight:	25.2 kg	
	Gross weight:	28.1 kg	
	Shipping volume:	0.074 m <sup>3</sup>	
	Danish VVS No.:	385911012	
		000011012	
	Norwegian NRF no.:	9040467	





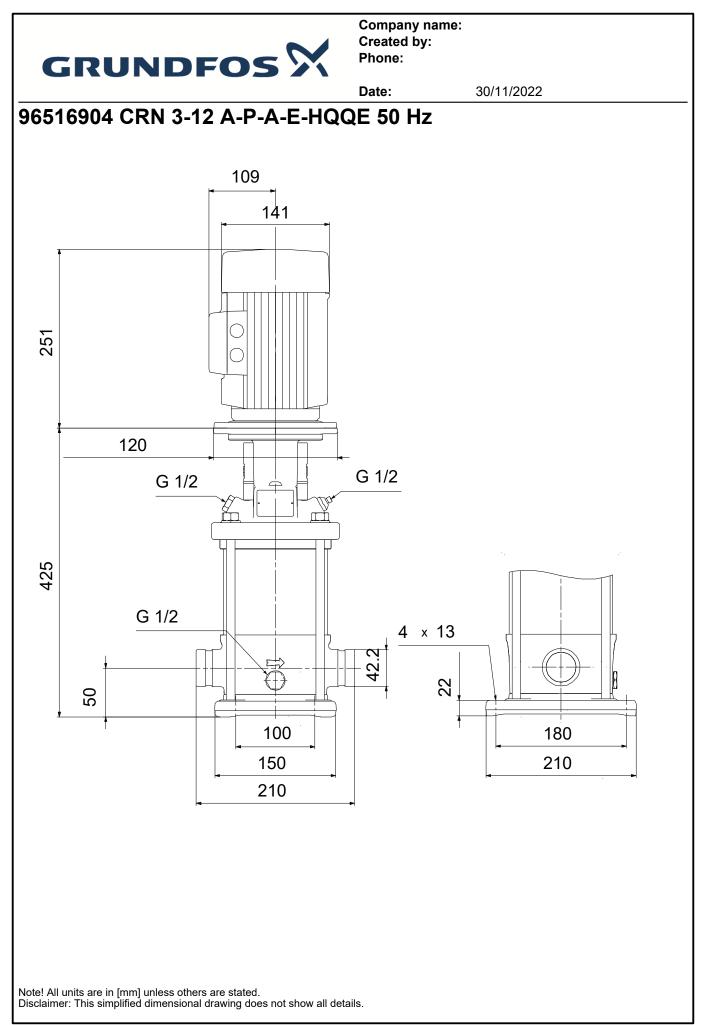
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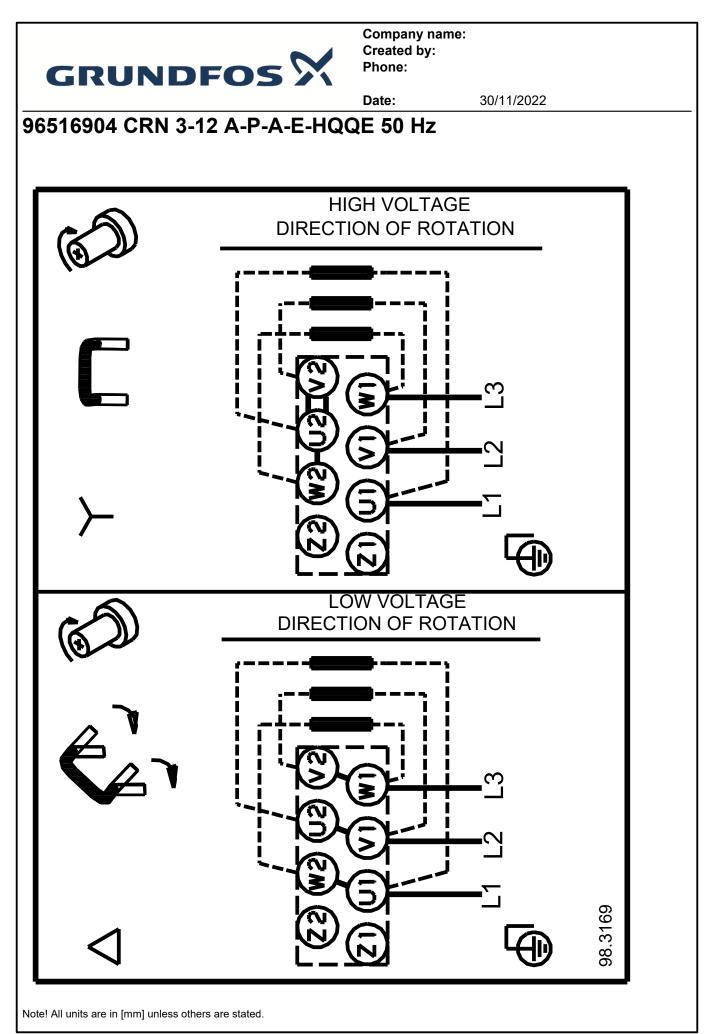
Description	Value	H [m]				CRN 3-12	, 3*400 V,	50Hz
General information:	Value			Pumped I				
Product name:	CRN 3-12 A-P-A-E-HQQE	80 -		Density =			eration = 20	
Product No:	96516904							
EAN number:	5700396752198	70						
Technical:	010000102100	-						
Pump speed on which pump data are based:	2853 rpm	60 -						
Rated flow:	3 m³/h	50 -						
Rated head:	57 m	-						
Maximum head:	79.1 m	40					$\mathbf{\lambda}$	
Stages:	12	-						
Impellers:	12	30						-
Number of reduced-diameter impellers:	0	-					$\rightarrow$	
Low NPSH:	N	20 -						•
Pump orientation:	Vertical	_						
		10-						-
Shaft seal arrangement: Code for shaft seal	Single	- //						
	HQQE	- 0	).5 1.0 1.5	2.0 2	.5 3.0	) 3.5	4.0 Q	[m³/h
Approvals:	CE,EAC,UKCA,SEPRO	Р	J.5 1.0 1.5	2.0 2.	.5 3.0	3.5	4.0 Q	[mº/n
Approvals for drinking water:	WRAS,ACS	[Ŵ]						
Curve tolerance:	ISO9906:2012 3B						P1	
Pump version:	А	1000 -						-
Model:	А	-					P2	
Materials:		_						
Base:	Stainless steel	500 -						
Base:	EN 1.4408	-						
Base:	AISI 316	_						
Impeller:	Stainless steel	0						
Impeller:	EN 1.4401	*						
Impeller:	AISI 316		109					
Material code:	A		141					
Code for rubber:	E	-						
Bearing:	SIC							
Installation:		251	Ļĕ					
t max amb:	60 °C	_						
Maximum operating pressure:	25 bar	120						
	25 bar / 120 °C	G	S 1/2 G	1/2				
Max pressure at stated temp:	25 bar / -20 °C	_						
Max pressure at stated temp:	PJE	425				11		
Type of connection: Size of inlet connection:	DN 32	<u>G 1/</u>		4 × 13		46		
Size of inlet connection: Size of outlet connection:		_  _ <del> </del>						
	DN 32	20	100	' °Ħ	180			
Pressure rating for connection:	PN 50		150	Ľ	210			
Flange size for motor:	FT100		210	-				
Connect code:	Р				-			
Liquid:		-	HIGH VOLTAG DIRECTION OF ROT	E ATION	1			
Pumped liquid:	Water	10-00	·····		1			
Liquid temperature range:	-20 120 °C		.+:==:)		1			
Selected liquid temperature:	20 °C		II Øgu	<b>-</b> 2	1			
Density:	998.2 kg/m³		TOAL	- -	1			
Electrical data:			`®ğ		1			
Motor standard:	IEC	-   ≻	ଇଷ	_ @	1			
Motor type:	80C		LOW VOLTAGE DIRECTION OF ROT	-	1			
IE Efficiency class:	IE3	6	DIRECTION OF ROT	ATION				
Rated power - P2:	1.1 kW							
Power (P2) required by pump:	1.1 kW	(	<u></u>	~	1			
Mains frequency:	50 Hz	-   🌱 '	4 STH	<b>-</b> 2	1			
	3 x 220-240D/380-415Y	-		<b>-</b> 2	1			
Rated voltage:	V		E C	- <u>-</u> •••••••••••••••••••••••••••••••••••				



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		Date:	30/11/2022
Description	Value		
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:	25.2 kg		
Gross weight:	28.1 kg		
Shipping volume:	0.074 m³		
Danish VVS No.:	385911012		
Norwegian NRF no.:	9040467		







Your pos.

Position

Company name: Created by: Phone:

Date: 30/11/2022 **Order Data:** Total **Product name** Amount **Product No** 96516904 CRN 3-12 1 Price on request

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