



30/11/2022

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.

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.

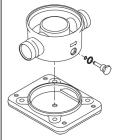
The pump has a stainless-steel base mounted on a separate base plate.

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 (11/1).

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:	Water
Liquid temperature range:	-20 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Technical:	



			Date:	30/11/2022
у.	Description			
	Pump speed on which pump data	are based: 2899 r	pm	
	Rated flow:	3 m³/h		
	Rated head:	131 m		
	Pump orientation:	Vertical		
	Shaft seal arrangement:	Single		
	Code for shaft seal:	HQQE		
			DO.	
	Approvals:	CE,EAC,UKCA,SEP	RU	
	Approvals for drinking water:	WRAS,ACS		
	Curve tolerance:	ISO9906:2012 3B		
	Materials:			
	Base:	Stainless steel		
	Date:	EN 1.4408		
		AISI 316		
	Impeller:	Stainless steel		
		EN 1.4401		
		AISI 316		
	Bearing:	SIC		
	Installation:			
	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:	PJE		
	Size of inlet connection:	DN 32		
	Size of outlet connection:	DN 32		
	Pressure rating for connection:	PN 50		
	Flange size for motor:	FT115		
	Electrical data:			
	Motor standard:	IEC		
	Motor type:	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/380-4	15Y V	
	Rated current:	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		
	Motor No:	85U01908		
	Controls:			
	Frequency converter:	NONE		
	Others:			
	Minimum efficiency index, MEI ≥:	0.70		
	Net weight:	41 kg		
	Gross weight:	43.9 kg		
		0.13 m ³		
	Shipping volume:	0.13111		

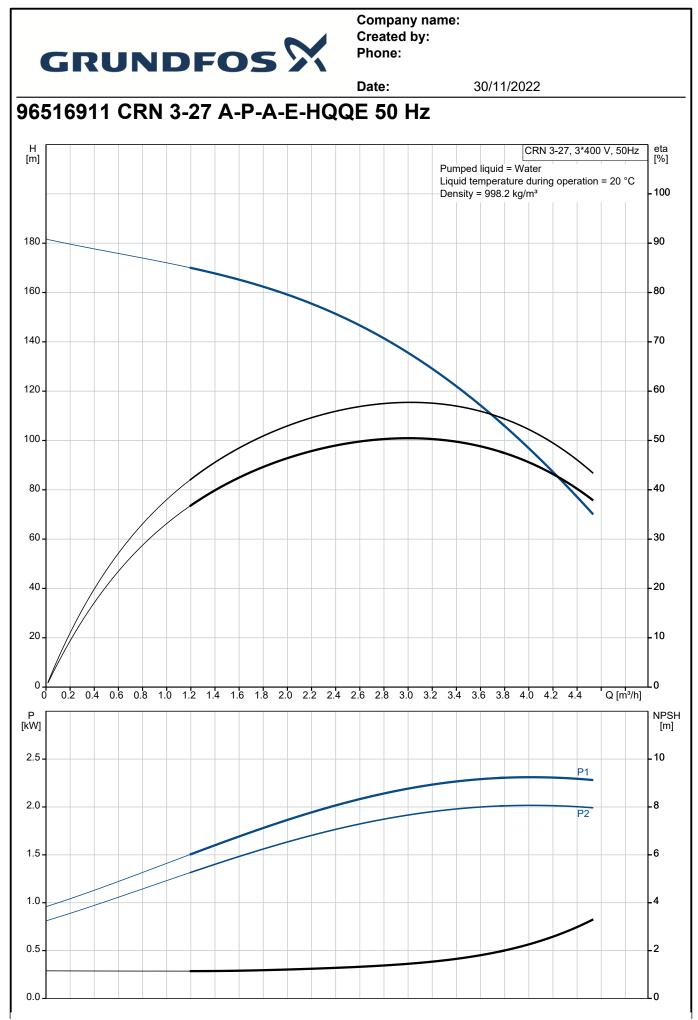


30/11/2022

Qty. | Description Danish VVS No.:

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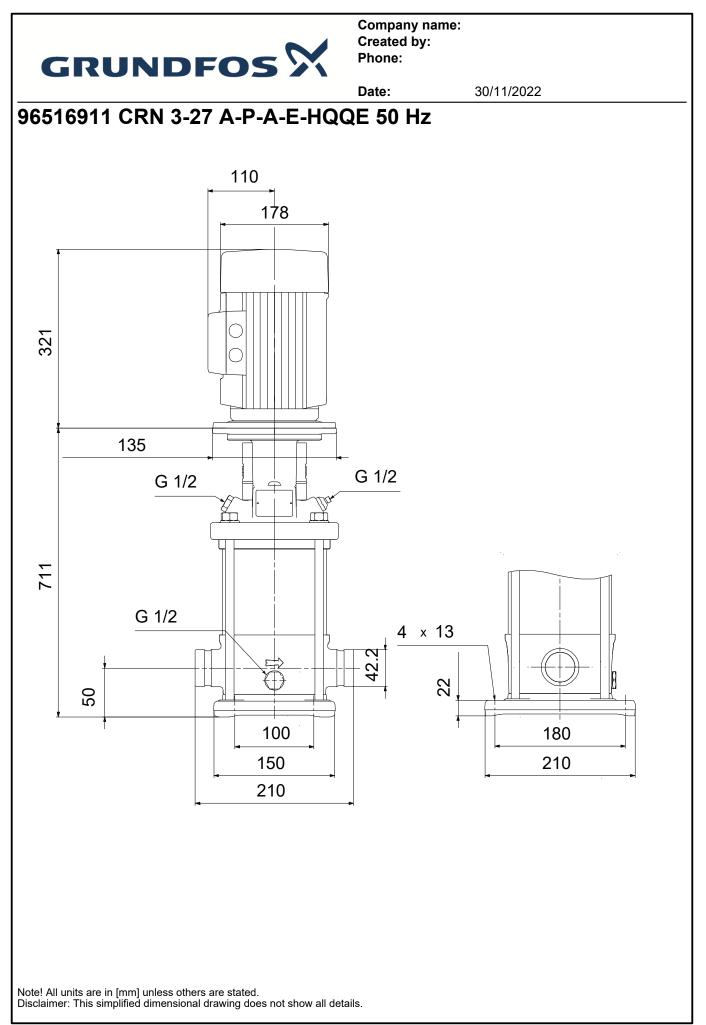
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Description	Value
scription neral information:	Value
luct name:	CRN 3-27 A-P-A-E-HQQE
duct No:	96516911
AN number:	5700396752358
chnical:	5760590752556
ump speed on which pump data are	
ised:	2899 rpm
ated flow:	3 m³/h
ated head:	131 m
aximum head:	179 m
ages:	27
npellers:	27
imber of reduced-diameter impellers:	0
w NPSH:	N
	Vertical
Imp orientation:	
aft seal arrangement:	Single
de for shaft seal:	HQQE
provals:	CE,EAC,UKCA,SEPRO
provals for drinking water:	WRAS,ACS
rve tolerance:	ISO9906:2012 3B
ump version:	А
odel:	A
aterials:	
ase:	Stainless steel
ase:	EN 1.4408
ase:	AISI 316
npeller:	Stainless steel
npeller:	EN 1.4401
npeller:	AISI 316
laterial code:	Α
ode for rubber:	E
earing:	SIC
stallation:	
nax amb:	60 °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:	PJE
ze of inlet connection:	DN 32
ze of outlet connection:	DN 32 DN 32
ressure rating for connection:	PN 50
ange size for motor:	FT115
onnect code:	Р
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	3 x 220-240D/380-415Y
ted voltage:	J A 220-240D/300-4131



		Date:	30/11/2022	
Description	Value			
Rated current:	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:	41 kg			
Gross weight:	43.9 kg			
Shipping volume:	0.13 m³			
Danish VVS No.:	385911027			





Your pos.

Position

Company name: Created by: Phone:

30/11/2022 Date: **Order Data:** Total **Product name** Amount **Product No** CRN 3-27 1 96516911 Price on request

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