

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.



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.

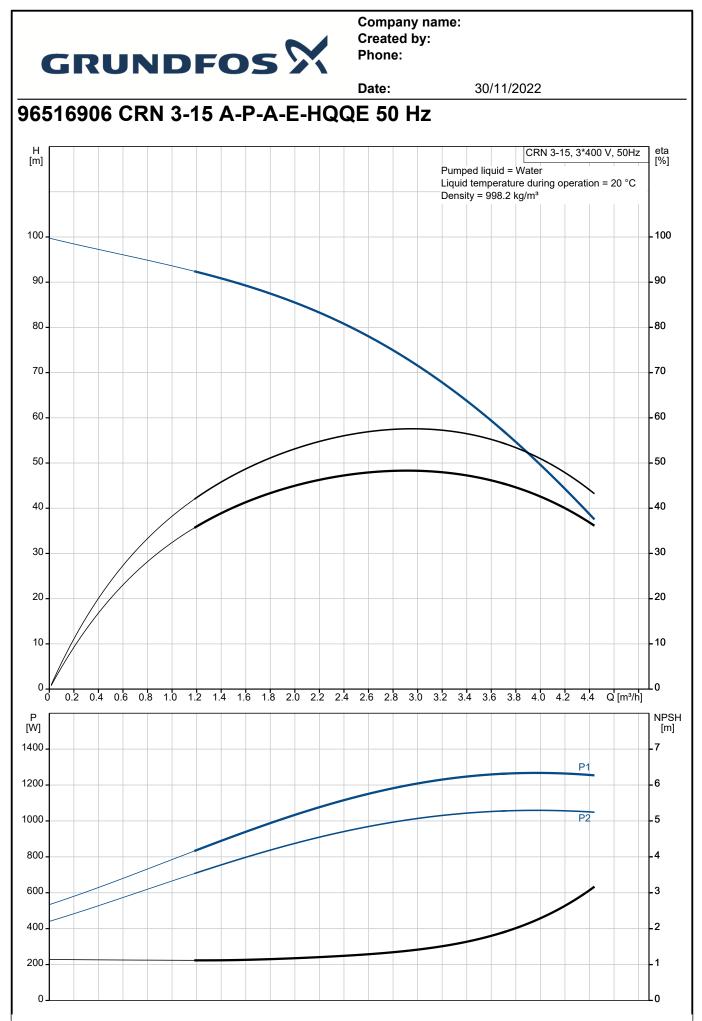
The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

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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•	Description		
	Rated head:	69.7 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	
	Materials:		
	Base:	Stainless steel	
	Buoo.	EN 1.4408	
		AISI 316	
	Impeller:	Stainless steel	
		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:	PJE	
	Size of inlet connection:	DN 32	
	Size of outlet connection:	DN 32	
		PN 50	
	Pressure rating for connection:		
	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	
	Controls:		
	Frequency converter:	NONE	
	Othere		
	Others:	0.70	
	Minimum efficiency index, MEI ≥:		
	Net weight:	26.5 kg	
	Gross weight:	30.5 kg	
	Shipping volume:	0.092 m ³	
	Danish VVS No.:	385911015	



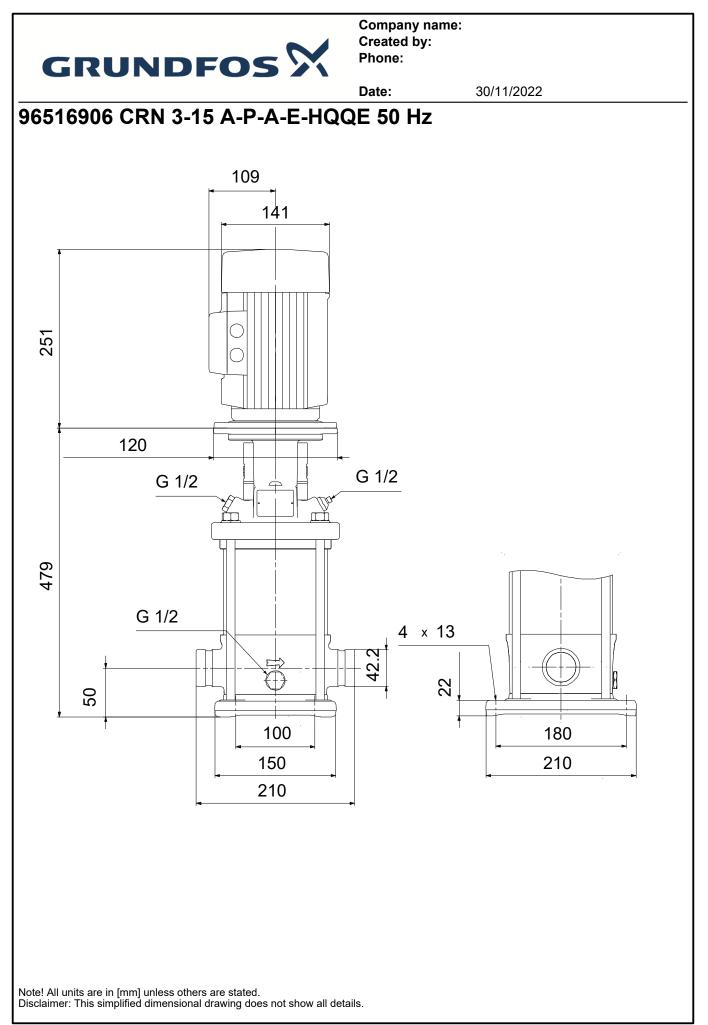


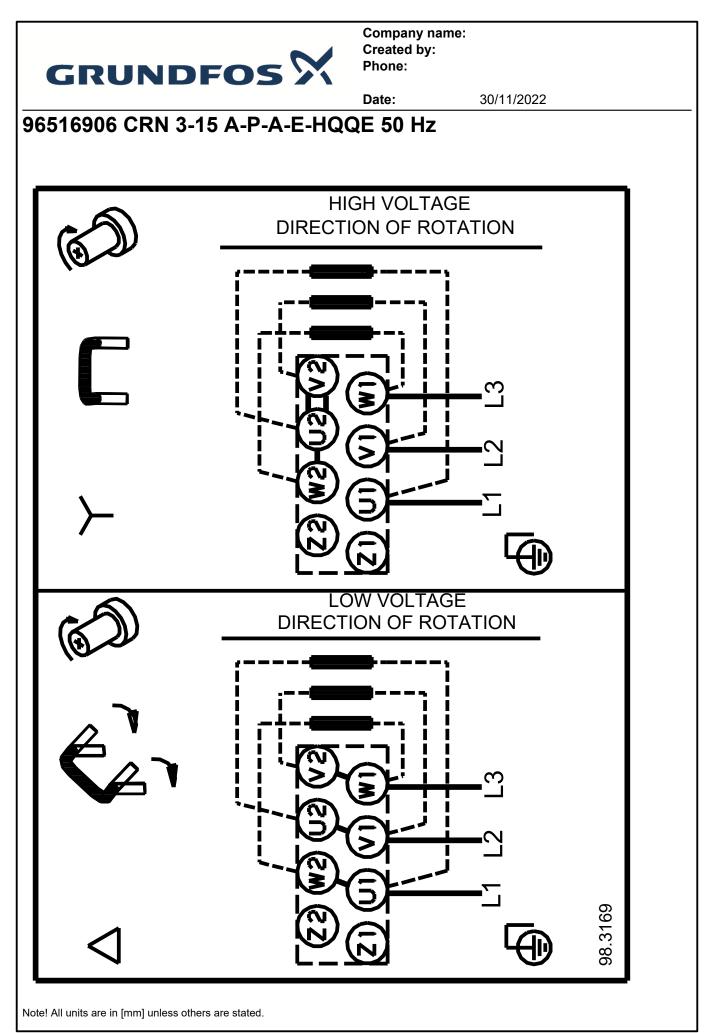
Description	Value	H [m]				CRN 3-1	5, 3*400 V, 5	50Hz
General information:	Fulue				liquid = V			
Product name:	CRN 3-15	-			mperature = 998.2 kg		peration = 20	υ°C
	A-P-A-E-HQQE	100 -						
Product No:	96516906	90						
EAN number:	5700396752235	_						
Technical:		80 -						-
Pump speed on which pump data are based:	2853 rpm	70 -						
Rated flow:	3 m³/h	60 -						
Rated head:	69.7 m	_						
Maximum head:	98.2 m	50 -			_			-
Stages:	15	40						
Impellers:	15	_						:
Number of reduced-diameter impellers:	0	30 -						
Low NPSH:	N							
Pump orientation:	Vertical	20/						-
Shaft seal arrangement:		10						
	Single							
Code for shaft seal:	HQQE		.5 1.0 1.3	5 2.0	2.5 3.	0 3.5	4.0 Q [m³/h
Approvals:	CE,EAC,UKCA,SEPRO	P	I.U 1.	5 2.0	2.0 3.	u 3.5	4.0 Q[,/n
Approvals for drinking water:	WRAS,ACS	[VV]						
Curve tolerance:	ISO9906:2012 3B	1500 -						-
Pump version:	А						P1	
Model:	А	1000 -					P2	
Materials:							P2	
Base:	Stainless steel							
Base:	EN 1.4408	500 -						-
Base:	AISI 316					·		
Impeller:	Stainless steel	0						
Impeller:	EN 1.4401	7						
Impeller:	AISI 316		109					
Material code:	A							
Code for rubber:	E	-						
Bearing:	SIC							
Installation:		251	Ļé					
t max amb:	60 °C	_						
Maximum operating pressure:	25 bar	120	╶╶╤╪╤┦					
Maximum operating pressure. Max pressure at stated temp:	25 bar / 120 °C	G	1/2 P	G 1/2				
Max pressure at stated temp:	25 bar / -20 °C	-						
Type of connection:	PJE	479				1		
Size of inlet connection:	DN 32	<u>G 1/2</u>		4 × 13	, { - -	4		
Size of outlet connection:	DN 32			22 42.2				
		50	100	``` F	180			
Pressure rating for connection:	PN 50		150		210			
Flange size for motor:	FT100		210	1				
Connect code:	Р				_			
Liquid:	14/	6	HIGH VOLT DIRECTION OF R	AGE				
Pumped liquid:	Water	- 19-00		7				
Liquid temperature range:	-20 120 °C							
Selected liquid temperature:	20 °C		I Pol	<u>–</u> 5				
Density:	998.2 kg/m³		Ť₽ĕ	<u>-</u> 1				
Electrical data:		≻	``©``	- <u>,</u>				
Motor standard:	IEC		ଭିଷ	_ _				
Motor type:	80C		LOW VOLT. DIRECTION OF F	AGE	-			
IE Efficiency class:	IE3	- 60						
Rated power - P2:	1.1 kW	- r.						
Power (P2) required by pump:	1.1 kW	(Let	1 Sal	e				
Mains frequency:	50 Hz	- ❤─ '	HOAT					
Rated voltage:	3 x 220-240D/380-415Y	-	- Bai	<u>ר</u> י				
valou vollage.	V		000	–₋⊂	98.3169			

NPSH [m] -6 - 5 4 - 3 2 L1 L٥



		Date:	30/11/2022	
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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:	26.5 kg			
Gross weight:	30.5 kg			
Shipping volume:	0.092 m ³			
Danish VVS No.:	385911015			







Your pos.

Position

Company name: Created by: Phone:

30/11/2022 Date: **Order Data: Product name** Amount **Product No** Total CRN 3-15 1 96516906 Price on request

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