		Company r	
	\sim	Created by	
	GRUNDFOS	Phone:	
		Date:	29/12/2022
Qty.	Description		
1	CRNE 32-2 A-F-A-E-HQQE		
	Product No.: 99071984		
	Vertical, multistage centrifugal pump with inlet and out with the liquid are in high-grade stainless steel. A cartr access and service. Power transmission is via a rigid s	idge shaft seal	ensures high reliability, safe handling, and easy
	The pump is fitted with a 3-phase, fan-cooled, perman The motor efficiency is classified as IE5 in accordance The motor includes a frequency converter and PI contr variable control of the motor speed, which again enable An operating panel on the motor terminal box enables or "Max," operation or to "Stop". The Grundfos Eye inc	with IEC 60034 roller in the mot es adaptation o setting of requi	4-30-2. or terminal box. This enables continuously if the performance to a given requirement. red setpoint as well as setting of pump to "Min."
	 pump status: "Power on": Motor is running (rotating green indicating green) 	dicator lights) or	not running (permanently green indicator lights)
	 "Warning": Motor is still running (rotating yellow lights) 	indicator lights) or has stopped (permanently yellow indicator
	 lights) "Alarm": Motor has stopped (flashing red indica Communication with the pump is possible by means o enables further settings as well as reading out of a nur input" and total "Power consumption". 	f Grundfos GO	Remote (accessory). The remote control ters such as "Actual value", "Speed", "Power
	The terminal box has a number of inputs and outputs a many inputs and outputs are required:	enabling the mo	tor to be used in advanced applications where
	two dedicated digital inputs		
	 three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 		
	 5 V voltage supply to potentiometer and sensor one analog output, 0-10 V, 0(4)-20 mA 	-	
	 two configurable digital inputs or open-collector 	outputs	
	two Pt100/Pt1000 inputs		
	LiqTec, dry-running protection sensor input		
	 Grundfos Digital Sensor input and output 24 V voltage supply for sensors 		
	 two signal-relay outputs (potential-free contacts) 	3)	
	GENIbus connection	,	
	interface for Grundfos CIM fieldbus module.		
	Further product details		
	An external sensor can be connected if controlled pur temperature is required.	np operation bas	sed on for example flow, differential pressure or
	An operating panel on the motor terminal box enables or "Max." operation or to "Stop". The Grundfos Eye inc pump status:	setting of requi licator on the op	red setpoint as well as setting of pump to "Min." perating panel provides visual indication of
	"Power on": Motor is running (rotating green inc	dicator lights) or	not running (permanently green indicator lights)
	 "Warning": Motor is still running (rotating yellow lights) 	indicator lights) or has stopped (permanently yellow indicator
	"Alarm": Motor has stopped (flashing red indica	tor lights).	



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Qty. | Description

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Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

Date:

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.

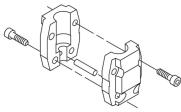
Cathodic electro-deposition.

4) Curing to a dry film thickness 18-22 my m.

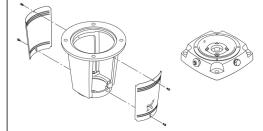
The colour code for the finished product is NCS 9000/RAL 9005.

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 motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and vent screw.



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.

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.

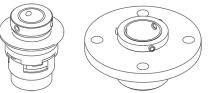
Seal faces:

- 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 retained in the pump head by a cover and screws. It can be replaced without removing the motor.



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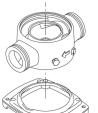
Qty. | Description

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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.

Date:

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. Both the inlet and the outlet side of the base have two pressure gauge tappings. The pump is secured to the foundation by four bolts through the base plate. The flanges are fastened to the base by means of locking rings.



Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II).

Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

The terminal box has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:

- · two dedicated digital inputs
- three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V
- 5 V voltage supply to potentiometer and sensor
- one analog output, 0-10 V, 0(4)-20 mA
- · two configurable digital inputs or open-collector outputs
- two Pt100/Pt1000 inputs
- LiqTec, dry-running protection sensor input
- Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- GENIbus connection
- interface for Grundfos CIM fieldbus module.

Technical data

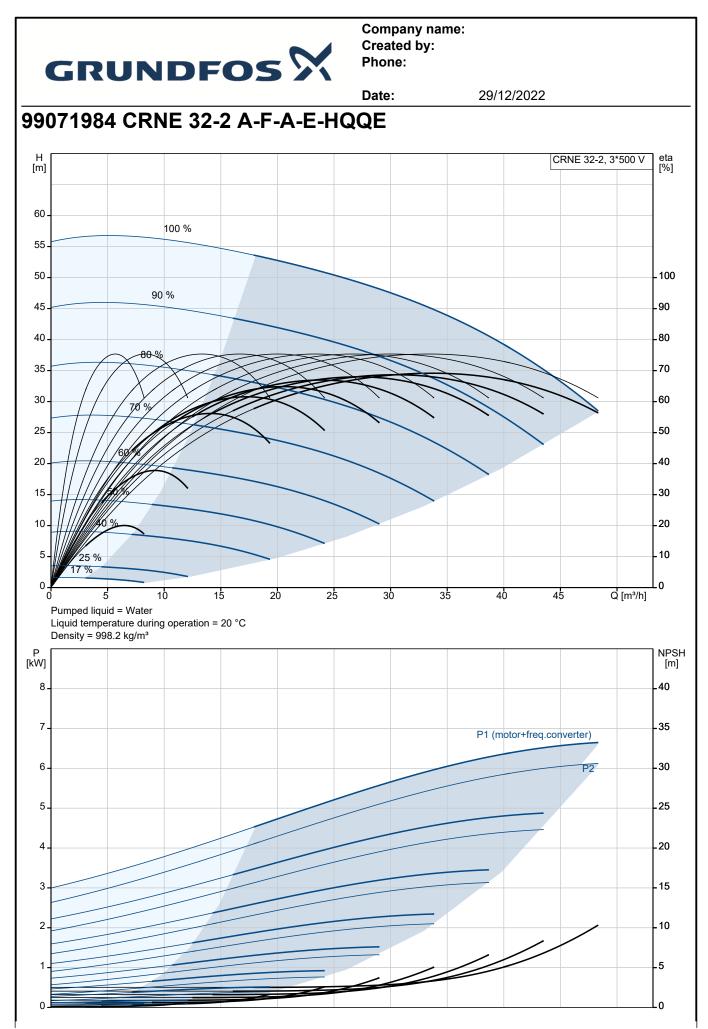
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -40 120 °C 20 °C 998.2 kg/m³	
Technical: Pump speed on which pump data Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals:	are based: 36 m ³ /h 43.1 m Vertical Single HQQE CE,EAC,UKC	3525 rpm CA,SEPRO



Date: 2

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ppprovals for drinking water:WRAS,ACSurve tolerance:ISO9906:2012 3Baterials:ISO9906:2012 3Baterials:ISO9906:2012 3Base:Stainless steelEN 1.4408AISI 316npeller:Stainless steelEN 1.4401AISI 316earing:SICupport bearing:Graflonstallation:Graflonmax amb:50 °Caximum operating pressure:16 barax pressure at stated temp:16 bar / 120 °C16 bar / -40 °Cype of connection:DINDN 65ze of inlet connection:DN 65ressure rating for connection:PN 40ange size for motor:FF265ectrical data:IECotor standard:IE5ated power - P2:7.5 kWower (P2) required by pump:7.5 kWos phi - power factor:0.93-0.89ated voltage:3 x 380-500 Vated voltage:3 co-0.89ated speed:360-4000 rpmfficiency:92.5%	
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ated speed: 360-4000 rpm	
111CIEIICV. 92.370	
nclosure class (IEC 34-5): IP55	
sulation class (IEC 85): F	
otor No: 98971052	
ontrols:	
requency converter: Built-in	
ressure sensor: N	
46	
thers:	
inimum efficiency index, MEI ≥: 0.70	
et weight: 101 kg	
ross weight: 134 kg	
hipping volume: 0.495 m³	
anish VVS No.: 386020002	



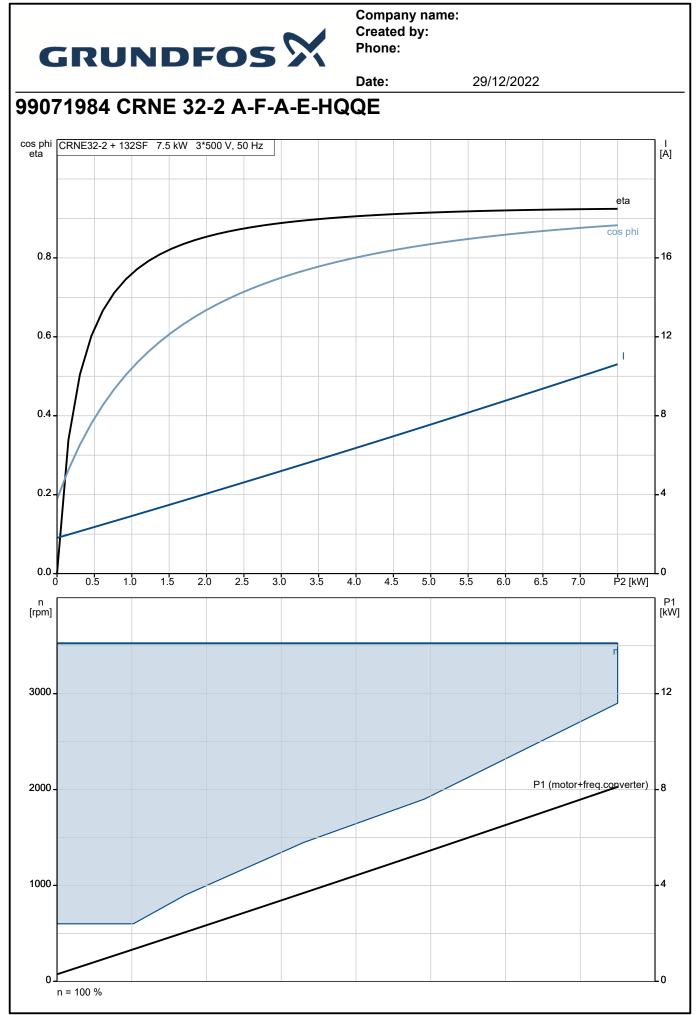


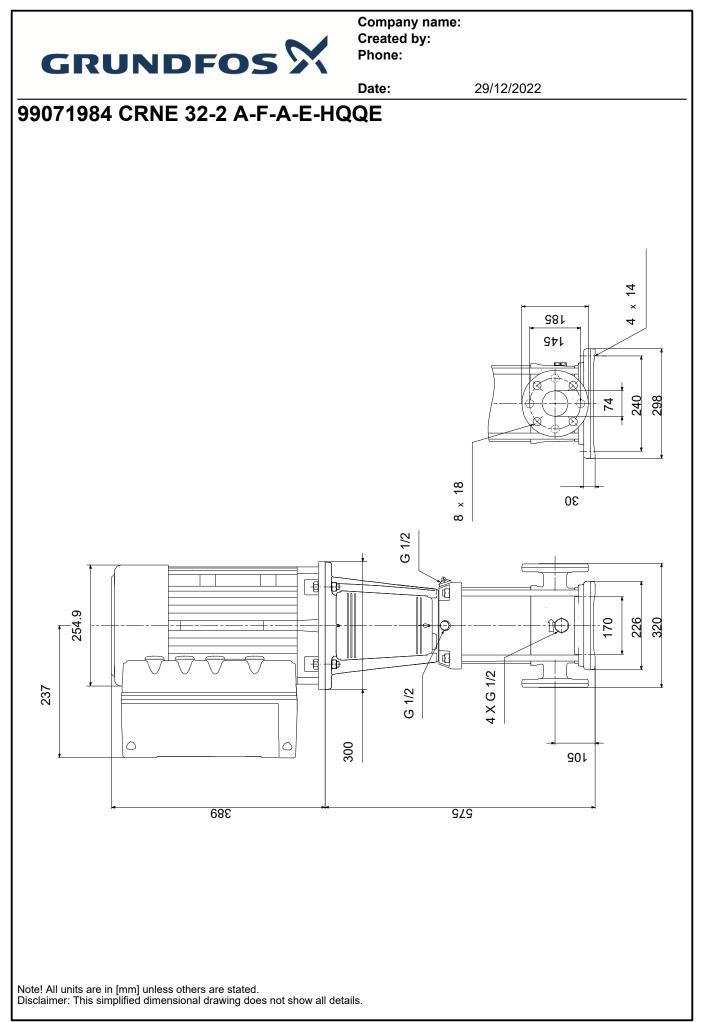
GRUNDF		Date: 29/12/2022
Description	Value	H [m] CRNE 32-2, 3*500 V
General information:		60 _
Product name:	CRNE 32-2 A-F-A-E-HQQE	55
Product No:	99071984	50 - 50 -
EAN number:	5712606201969	45
Technical:	5712000201909	40
		35 80 %
Pump speed on which pump data are based:	3525 rpm	30 70 m
Rated flow:	36 m³/h	25
Rated head:	43.1 m	20
Maximum head:	57.2 m	15 -
Stages:	2	10 - 0%
Impellers:	2	5 25 %
Number of reduced-diameter impellers:	0	17 %
Low NPSH:	Ν	0 5 10 15 20 25 30 35 40 45 Q [m ³ /h]
Pump orientation:	Vertical	Pumped liquid = Water
Shaft seal arrangement:	Single	Liquid temperature during operation = 20 °C
Code for shaft seal:	HQQE	Density = 998.2 kg/m ³
Approvals:	CE,EAC,UKCA,SEPRO	P [kW]
Approvals. Approvals for drinking water:	WRAS,ACS	
Curve tolerance:	ISO9906:2012 3B	7 - P1 (motor+freq.converter) -
		6
Pump version:	A	5
Model:	В	
Materials:		4-
Base:	Stainless steel	3
Base:	EN 1.4408	2
Base:	AISI 316	1
Impeller:	Stainless steel	
Impeller:	EN 1.4401	0
Impeller:	AISI 316	3
Material code:	А	237
Code for rubber:	E	
Bearing:	SIC	
Support bearing:	Graflon	
Installation:		
t max amb:	50 °C	
Maximum operating pressure:	16 bar	
Max pressure at stated temp:	16 bar / 120 °C	
	16 bar / -40 °C	<u>G 1/2</u> <u>G 1/2</u>
Max pressure at stated temp:		- <u>8</u> - 8 × 18
Type of connection:	DIN	
Size of inlet connection:	DN 65	
Size of outlet connection:	DN 65	
Pressure rating for connection:	PN 40	
Flange size for motor:	FF265	
Connect code:	F	
Liquid:		
Pumped liquid:	Water	
Liquid temperature range:	-40 120 °C	 ≈_ <u>-i⊧⊂</u> L'* Ø®
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m³	
Electrical data:	5	
Motor standard:	IEC	
Motor type:	132SF	
IE Efficiency class:	IE5	
Rated power - P2:	7.5 kW	
Power (P2) required by pump:	7.5 kW	
Over/undersize motor:	Standard motor size	
Mains frequency: Rated voltage:	50 / 60 Hz	
	3 x 380-500 V	I I I I I I I I I I I I I I I I I I I

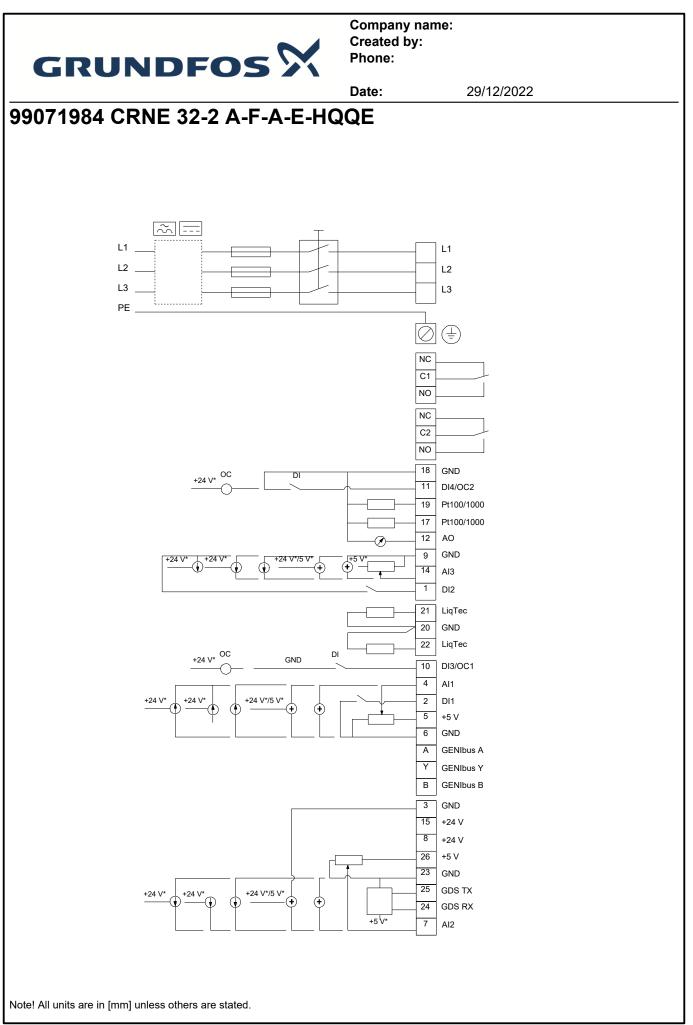
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29/12/2022 Date: Description Value Rated current: 14.1-11.2 A Cos phi - power factor: 0.93-0.89 Rated speed: 360-4000 rpm Efficiency: 92.5% Motor efficiency at full load: 92.5 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971052 Controls: Control panel: Standard Function Module: FM300 - Advanced Frequency converter: Built-in Ν Pressure sensor: Others: 0.70 Minimum efficiency index, MEI ≥: Net weight: 101 kg Gross weight: 134 kg 0.495 m³ Shipping volume: 99059280 Config. file no: Danish VVS No.: 386020002









Date: 29/12/2022 Order Data: Amount | Product No | Product name Total

Position	Your pos.	Product name	Amount	Product No	Total
		CRNE 32-2	1	99071984	Price on request
					Tequesi