

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



29/12/2022

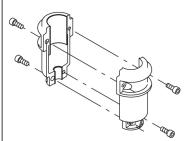
Qty. | Description

Pump

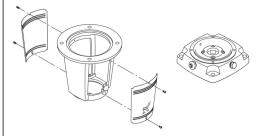
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A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.

Date:



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.

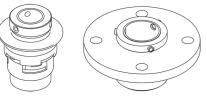
Seal faces:

- 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.

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. 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.

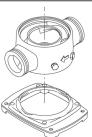


Date:

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Qty. | Description

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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 IE3 in accordance with IEC 60034-30-1.

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 holds terminals for these connections:

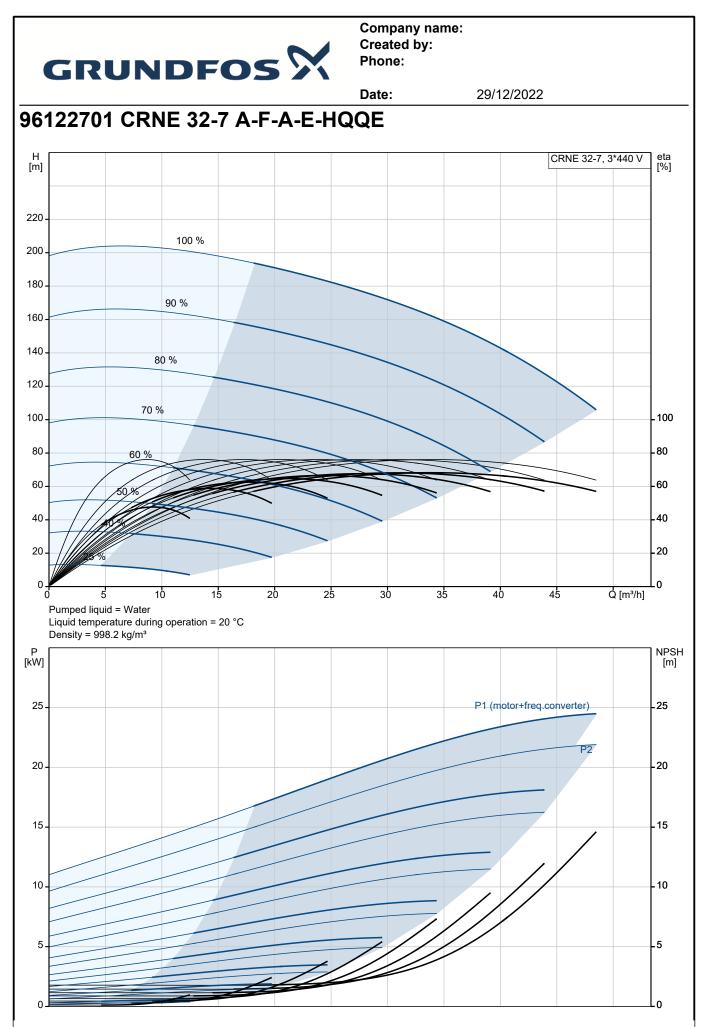
- pump start/stop input (potential-free contact)
- remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA
- 10 V voltage supply for setpoint potentiometer, Imax = 5 mA
- three analog sensor inputs, 0-10 V, 0(4)-20 mA
- 24 V voltage supply for sensor, Imax = 40 mA
- one analog output
- three digital inputs
- two Pt100 inputs
- two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready"
- RS-485 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: Approvals for drinking water: Curve tolerance:	are based: 3556 rpm 36 m³/h 153.8 m Vertical Single HQQE CE,EAC,UKCA,SEPRO WRAS,ACS ISO9906:2012 3B
Materials: Base:	Stainless steel EN 1.4408 AISI 316
Impeller: Bearing:	Stainless steel EN 1.4401 AISI 316 SIC



Su In: tr M	escription		
In: tr M			
tr M	upport bearing:	Graflon	
tr M			
M	stallation:	40.00	
	nax amb:	40 °C	
	aximum operating pressure:	30 bar	
	ax pressure at stated temp:	30 bar / 120 °C 30 bar / -40 °C	
Ty	/pe of connection:	DIN	
Si	ze of inlet connection:	DN 65	
Si	ze of outlet connection:	DN 65	
Pr	ressure rating for connection:	PN 40	
	ange size for motor:	FF300	
EI	ectrical data:		
м	otor standard:	IEC	
	otor type:	180MB	
	Efficiency class:	IE3	
	ated power - P2:	22 kW	
	ower (P2) required by pump:	22 kW	
	ver/undersize motor:	Standard motor size	
	ains frequency:	50 / 60 Hz	
	ated voltage:	3 x 380-480 V	
	ated current:	43.5-35.0 A	
	os phi - power factor:	0.91-0.90	
	ated speed:	480-3540 rpm	
	fficiency:	IE3 92,7%	
	otor efficiency at full load:	92.7 %	
N	umber of poles:	2	
	nclosure class (IEC 34-5):	IP55	
In	sulation class (IEC 85):	F	
	otor No:	85901027	
С	ontrols:		
Fr	equency converter:	Built-in	
Pr	ressure sensor:	Ν	
	thers:		
	inimum efficiency index, MEI ≥:		
	et weight:	236 kg	
	ross weight:	287 kg	
	hipping volume:	1.13 m³	
	anish VVS No.:	385956770	



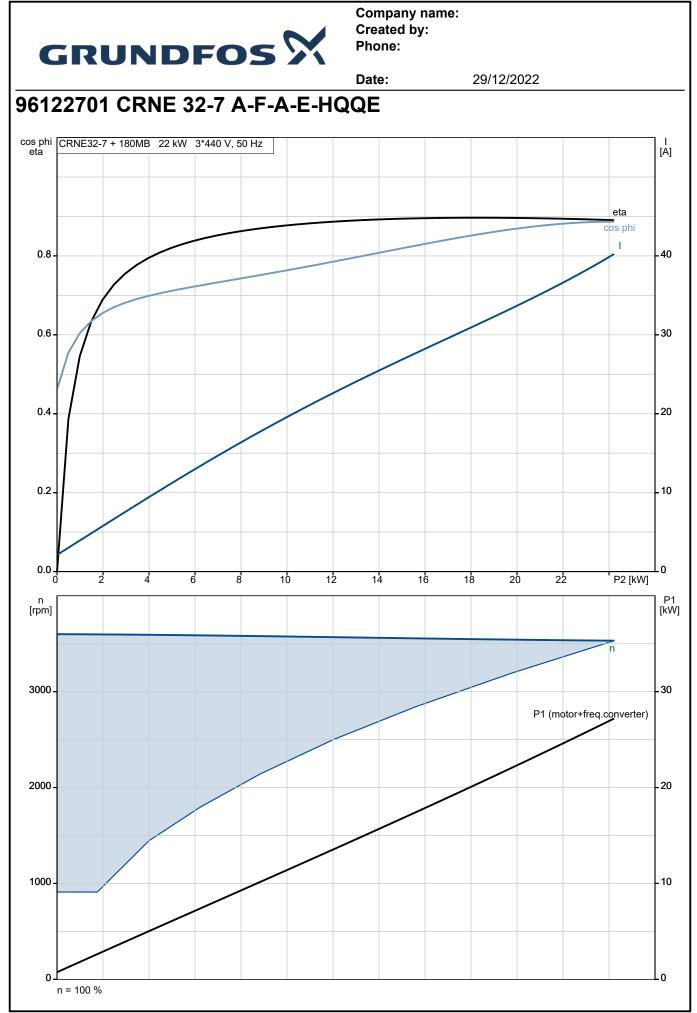


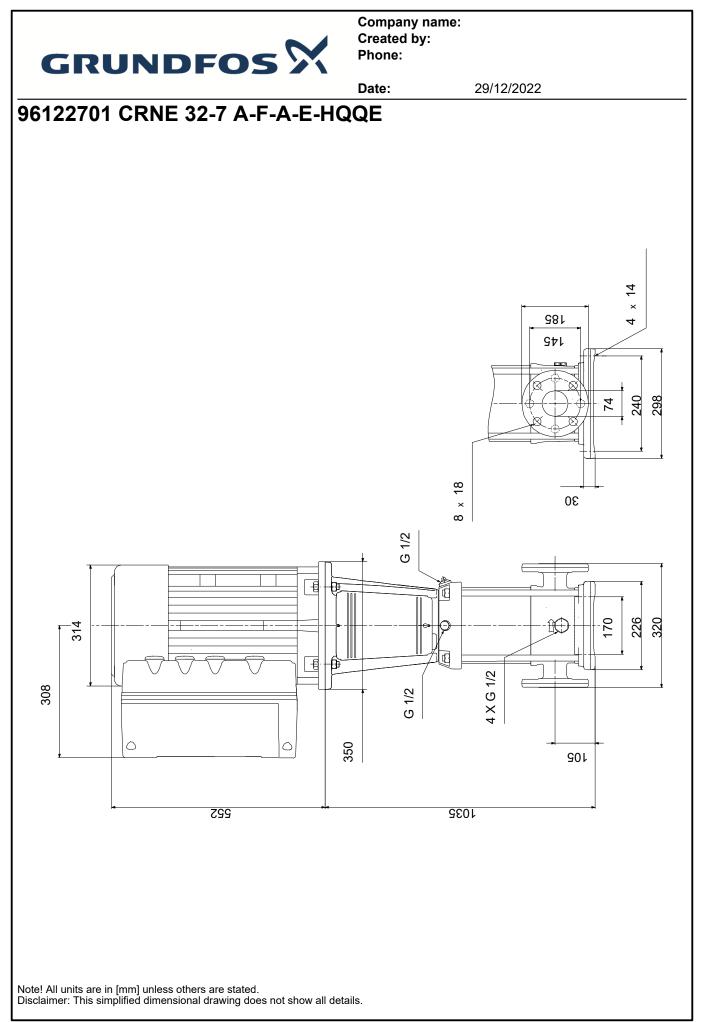
		Date:	2	9/12/2022			
Description	Value	H [m]			CRNE 32-	7, 3*440 V	eta [%]
General information:		220 -					
Product name:	CRNE 32-7 A-F-A-E-HQQE	220 -	100 %				
Product No:	96122701	180					
EAN number:	5700396687452	160	90 %				
Technical:	010000001402	-					
Pump speed on which pump data are based:	3556 rpm	140 - 120 -	80 %				
Rated flow:	36 m³/h	100	70 %				10
Rated head:	153.8 m	80 -	60 %		$\langle \rangle$		80
	196.8 m	_				_	
Maximum head:		60 -	50.%				60
Stages:	7	40 - //					- 40
Impellers:	7	20 -	%				20
Number of reduced-diameter impellers:	0	0					
Low NPSH:	Ν	0 5	10 15 2	0 25 30	35 40 4	15 Q [m³/h]	
Pump orientation:	Vertical		d liquid = Water				
Shaft seal arrangement:	Single		emperature during op = 998.2 kg/m ³	peration = 20 °C			
Code for shaft seal:	HQQE	P Density	- 550.2 Ky/III			1	
Approvals:	CE,EAC,UKCA,SEPRO	[kW]					[n
Approvals for drinking water:	WRAS,ACS	25 -		P1 (m	otor+freq.conve	rter)	- 25
Curve tolerance:	ISO9906:2012 3B	-				- P2	
Pump version:	A	20				12	- 20
Model:	B	_					
Materials:		15 -				1	- 15
	Staiplana ataal				— /		
Base:	Stainless steel	10			- 1//		+ 10
Base:	EN 1.4408						_
Base:	AISI 316	5		-1/1/			-5
Impeller:	Stainless steel						
Impeller:	EN 1.4401	0		· · · ·	, I		_ _ _U
Impeller:	AISI 316	٦					
Material code:	А	3	314				
Code for rubber:	E						
Bearing:	SIC	_					
Support bearing:	Graflon	~					
Installation:		552					
t max amb:	40 °C	0					
Maximum operating pressure:	30 bar						
Max pressure at stated temp:	30 bar / 120 °C	350	┵∖┠═╪═╡╢┶				
Max pressure at stated temp:	30 bar / -40 °C	<u>G 1</u>	2 G 1/2				
Type of connection:	DIN	1035					
Size of inlet connection:	DN 65	<u>4 x c</u>	§ 1/2				
Size of utlet connection: Size of outlet connection:		_					
	DN 65	105	╞╋╧╋╢╶╝				
Pressure rating for connection:	PN 40		170	74 240 4 x 14			
Flange size for motor:	FF300		320	298			
Connect code:	F						
Liquid:							
Pumped liquid:	Water						
Liquid temperature range:	-40 120 °C	12					
Selected liquid temperature:	20 °C						
Density:	998.2 kg/m³	R.C.					
Electrical data:	5						
Motor standard:	IEC						
Motor type:	180MB	-	18: P1100 A 17: P1300 A 16: GAU (frame) 15: 24V				
IE Efficiency class:	IE3	-	14: Sensor input2 13: GND 12: Analog output 11: Digital input 4				
Rated power - P2:			10: Digital input 3 1: Digital input 9: GND (frame) 8: 434V				
	22 kW		1.105-455A 3.105-455A Y.Screen A.105-455A				
Power (P2) required by pump:	22 kW						
Over/undersize motor:	Standard motor size	21	6: GND (farme) 5: +10V				
Mains frequency:	50 / 60 Hz	\$ *** \$**	4: Subject input 3: GND (tarme) 2: Startistop				
Rated voltage:	3 x 380-480 V	í.					

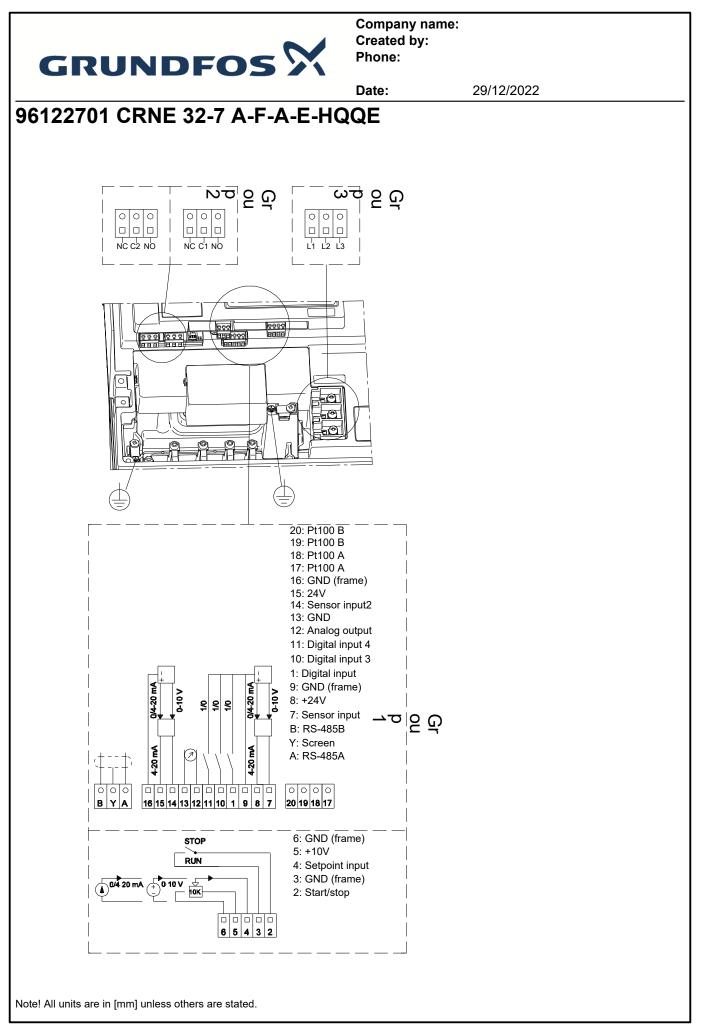
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		Date:	29/12/2022
Description	Value		
Rated current:	43.5-35.0 A		
Cos phi - power factor:	0.91-0.90		
Rated speed:	480-3540 rpm		
Efficiency:	IE3 92,7%		
Motor efficiency at full load:	92.7 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	YES		
Motor No:	85901027		
Controls:			
Function Module:	ADVANCED I/O		
Frequency converter:	Built-in		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	236 kg		
Gross weight:	287 kg		
Shipping volume:	1.13 m³		
Config. file no:	95139535		
Danish VVS No.:	385956770		









Your pos.

Position

Company name: Created by: Phone:

Date: 29/12/2022 **Order Data:** Total **Product name** Amount **Product No** 96122701 CRNE 32-7 1 Price on request

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