

- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.



26/11/2019

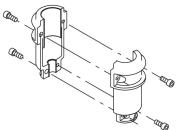
Qty. | Description

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

Pump

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.

Primary seal:

- 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 pump has a special air-cooled shaft-seal chamber generating the same insulation effect as that of a vacuum flask. No external cooling is necessary; the ambient temperature is sufficient. An automatic vent vents the pump seal chamber.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PEEK neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

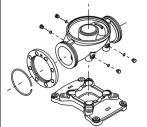


26/11/2019

Qty. | Description

The pump has a stainless-steel base mounted on a separate cast-iron 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:



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.

Technical data

Controls:

Frequency converter:	Built-in
Pressure sensor:	Yes

Liquid:

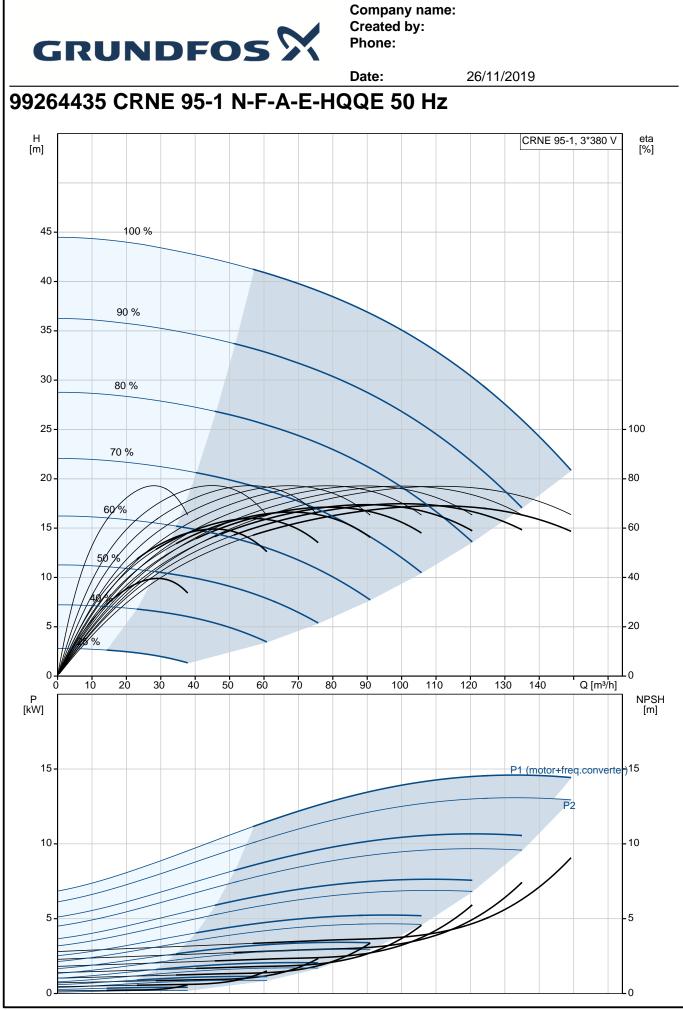
Pumped liquid:	Water
Liquid temperature range:	-40 120 °C
Selected liquid temperature:	20 °C
Density at selected liquid tempe	erature: 998.2 kg/m ³

Technical:

rechnical:	
Pump speed on which pump dat	a are based: 3557 rpm
Rated flow:	114 m³/h
Rated head:	32.1 m
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Curve tolerance:	ISO9906:2012 3B
Materials:	
Base:	Stainless steel
	EN 1.4408
Impeller:	Stainless steel
	EN 1.4401
Bearing:	WC/WC
Support bearing:	Graflon
Material certified according to:	European standards
Installation:	
Maximum ambient temperature:	40 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
Type of connection:	DIN
Size of inlet connection:	DN 100
Size of outlet connection:	DN 100
Pressure rating for pipe connecti	ion: PN 16



A Description Flange size for motor: FF300 Electrical data:		GRUNDFO		Date:	26/11/2019	
Electrical data:Motor standard:IECMotor standard:IECMotor type:160MDIE Efficiency class:IE3Rated power - P2:15 kWPower (P2) required by pump:15 kWMains frequency:50 HzRated voltage:3 x 380-480 VRated current:30.0-26.0 ACos phi - power factor:0.91-0.86Rated speed:480-3540 rpmEfficiency:IE3 91,9%Motor efficiency at full load:91.9 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:85901025Others:Net weight:233 kgGross weight:287 kgShipping volume:1.14 m³Thrust handling device:NApprovals:CE, EAC, ACS, WRASCountry of origin:GB	/. 📋	Description				
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Approvals:CE, EAC, ACS, WRASCountry of origin:GB			Ν			
Country of origin: GB			CE, EAC, ACS, WRAS	5		
		Custom tariff no.:	84137075			



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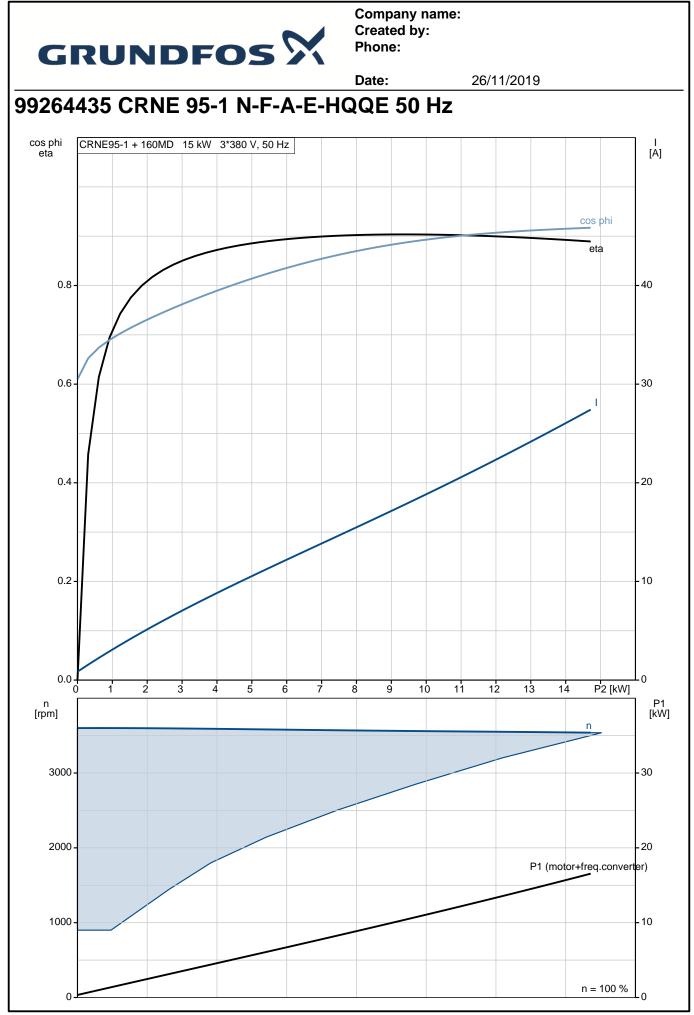


		Date:	26/11/2	019	
Description	Value	H [m]		CRNE 95-1,	3*380 V
General information:	CRNE 95-1				
Product name:	N-F-A-E-HQQE	451	00 %		
Product No:	99264435	40 -			
EAN number:	5713826224424		0%		
Technical:	5713826224424	35 -			
Pump speed on which pump data are		30 - 80)%		
based:	3557 rpm				
Rated flow:	114 m³/h	25 - 70	%		
Rated head:	32.1 m	20 -			
Head max:	44.4 m	60		A A	
Stages:	1	15 - 7-		11	$\overline{}$
mpellers:	1	59/2			
₋ow NPSH:	No	10-			
Pump orientation:	Vertical	5-			
Shaft seal arrangement:	Single	5- 5%			
Code for shaft seal:	HQQE	0			
Curve tolerance:	ISO9906:2012 3B	0 20	40 60 80	100 120	Q [m³/h]
Pump version:	Ν	P [kW]			
Model:	А				
Materials:		15 -		P1 (motor	+freq.conve
Base:	Stainless steel				P2
	EN 1.4408	10 -			
mpeller:	Stainless steel	_			
	EN 1.4401	_			
Material code:	А	5-			
Code for rubber:	E			the	
Bearing:	WC/WC	0			
Support bearing:	Graflon	7			
Material certified according to:	European standards	308	-1		
nstallation:			19		
Maximum ambient temperature:	40 °C				
Maximum operating pressure:	16 bar	482			
Max pressure at stated temp:	16 bar / 120 °C				
Type of connection:	DIN	G 1/2	350 G 1/2		
Size of inlet connection:	DN 100				
Size of outlet connection:	DN 100				
Pressure rating for pipe connection:	PN 16	69		8 × 18	
Flange size for motor:	FF300	4	x G 1/2		
Connect code:	F		<u>4 × 18.5</u>		
_iquid:				2 P P P	
Pumped liquid:	Water	225	100 350		
Liquid temperature range:	-40 120 °C	380	419		
Selected liquid temperature:	20 °C				
Density at selected liquid temperature:	998.2 kg/m ³	ی 5 ! افاقا ! افاقا !			
Electrical data:	Ŭ				
Motor standard:	IEC				
Motor type:	160MD				
E Efficiency class:	IE3				
Rated power - P2:	15 kW				
Power (P2) required by pump:	15 kW		20: P100 B 19: P100 B		
Mains frequency:	50 Hz		10. 51.00 A 17: Pt100 A 16: GAD (terms) 15: 24V 14: Seman input2		
Rated voltage:	3 x 380-480 V	—	13: GND 12: Analog output 11: Digital Input 4 10: Digital Input 3		
Rated current:	30.0-26.0 A		1: Digital input 2: GND (trame) 8: +24V 7: Sensor input		
Cos phi - power factor:	0.91-0.86	—————————————————————————————————————	7: Sensor Input G B: R5-4055 G Y: Screen G A: R5-405A G		
Rated speed:	480-3540 rpm				
Efficiency:	IE3 91,9%		6: GND (fiame) 5: +10V 4: SetOptin input 3: GND (fiame)		
-			2: Stat/stop		
Motor efficiency at full load:	91.9 %	L	J		

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			Date:
Description	Value	ľ	
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protec:	YES		
Motor No:	85901025		
Controls:			
Function Module:	ADVANCED I/O		
Frequency converter:	Built-in		
Pressure sensor:	Yes		
Others:			
Net weight:	233 kg		
Gross weight:	287 kg		
Shipping volume:	1.14 m³		
Thrust handling device:	Ν		
Approvals:	CE, EAC, ACS, WRAS		
Country of origin:	GB		
Custom tariff no.:	84137075		



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