

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



26/11/2019

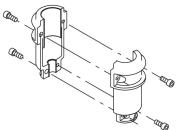
#### Qty. | Description

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.

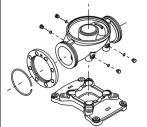


26/11/2019

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:

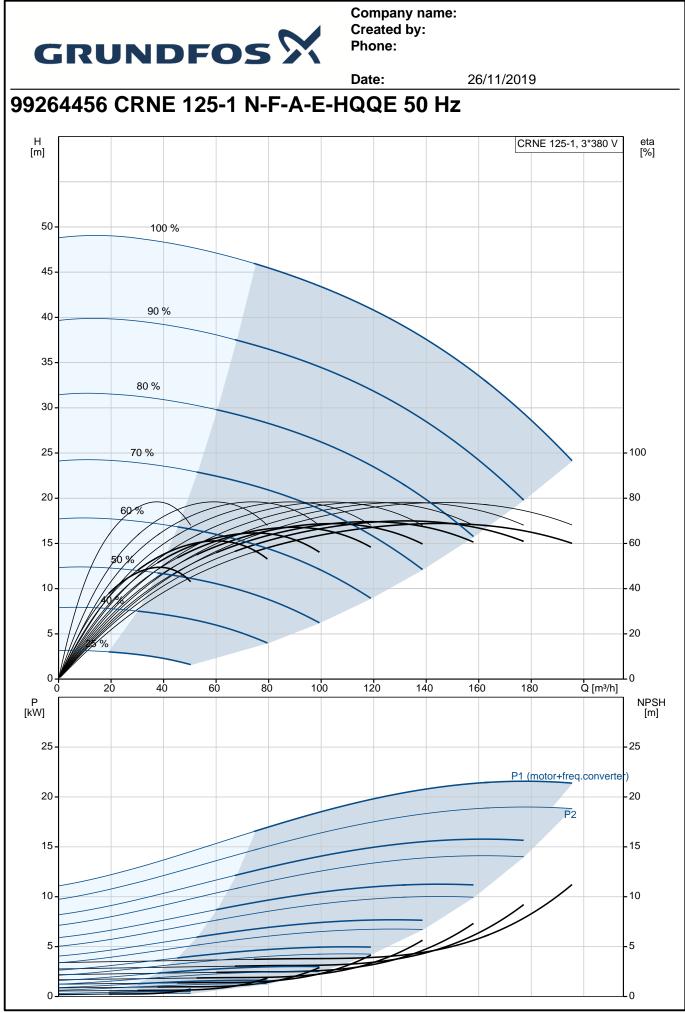
Pumped liquid:	Water
Liquid temperature range:	-40 120 °C
Selected liquid temperature:	20 °C
Density at selected liquid tempe	erature: 998.2 kg/m <sup>3</sup>

## Technical:

l	rechnicai:	
	Pump speed on which pump dat	a are based: 3566 rpm
	Rated flow:	150 m³/h
	Rated head:	36.4 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 150
	Size of outlet connection:	DN 150
	Pressure rating for pipe connecti	on: PN 16



Description Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class:	FF300 IEC		
Electrical data: Motor standard: Motor type:			
Motor standard: Motor type:	IEC		
Motor type:	IEC		
IF Efficiency class:	180MB		
	IE3		
Rated power - P2:	22 kW		
Power (P2) required by pump:	22 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-480 V		
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		
Motor No:	85901027		
Others:			
Net weight:	303 kg		
Gross weight:	379 kg		
Shipping volume:	1.14 m <sup>3</sup>		
Thrust handling device:		<b>、</b>	
Approvals:	CE, EAC, ACS, WRAS DK	)	
Country of origin: Custom tariff no.:	84137075		
Custom tann no	04137073		



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		Date:	26/1	11/2019	
Description	Value	H [m]		CRNE 125-1, 3*	*380 V eta [%]
General information:	14140	[···]			[,~]
Product name:	CRNE 125-1 N-F-A-E-HQQE	50 <b>-</b>	100 %		
Product No:	99264456				
		45 -			
EAN number:	5713826224851	40 -	90 %		
Technical:	5713826224851	35 -			
Pump speed on which pump data are	0500		80 %		
based:	3566 rpm	30 -			
Rated flow:	150 m³/h	25 -	70 %	$\langle \rangle \rangle$	100
Rated head:	36.4 m				
Head max:	49.2 m	20 -	60 %		- 80
Stages:	1				
Impellers:	1	15 -	50 %		- 60
Low NPSH:	No	10 -			- 40
Pump orientation:	Vertical				
Shaft seal arrangement:	Single	5-	25 %		- 20
Code for shaft seal:	HQQE				
Curve tolerance:	ISO9906:2012 3B	0	50	100 150 Q	0 [m³/h]
Pump version:	N	P [kW]			NPSH
Model:	A	[kW] 25 -			[m] - 25
Materials:	A	20		P1 (motor+f	freq.converter)
	Otoiplana ata al	20 -			- 20
Base:	Stainless steel				P2
	EN 1.4408	15 -			- 15
Impeller:	Stainless steel				1 10
	EN 1.4401	10 -			10
Material code:	A	5			- 5
Code for rubber:	E	Ů		and the second s	Ŭ
Bearing:	WC/WC	0			0
Support bearing:	Graflon	7			
Material certified according to:	European standards	_	308		
Installation:					
Maximum ambient temperature:	40 °C				
Maximum operating pressure:	16 bar	552			
Max pressure at stated temp:	16 bar / 120 °C				
Type of connection:	DIN	G 1/2	F 350 G 1/2		
Size of inlet connection:	DN 150				
Size of outlet connection:	DN 150	—   I			
Pressure rating for pipe connection:	PN 16	183		8 x 22	
Flange size for motor:	FF300	N/A	4 X G 1/2	0 × 22	
Connect code:	F		4 × 22.5		
Liquid:	•		¥		
Pumped liquid:	Water	·+ <u>+</u>	275	1 <u>50</u> 425	
			485	499	
Liquid temperature range:	-40 120 °C				
Selected liquid temperature:	20 °C				
Density at selected liquid temperature:	998.2 kg/m <sup>3</sup>				
Electrical data:	17.0				
Motor standard:	IEC				
Motor type:	180MB				
IE Efficiency class:	IE3		n-na li salli		
Rated power - P2:	22 kW	£	¢		
Power (P2) required by pump:	22 kW		20: P1100 B 19: P1100 B 18: P1100 A 17: P1100 A		
Mains frequency:	50 Hz		16: GND (frama) 15: 24V 14: Samor input2 13: GND		
Rated voltage:	3 x 380-480 V		12: Analog culput 11: Digital input 4 10: Digital input 3 11: Digital input 3		
Rated current:	43.5-35.0 A		2 CAD (frame) 8: +24V 7: Sensor input 7: Sensor input 7: Sensor input		
Cos phi - power factor:	0.91-0.90				
Rated speed:	480-3540 rpm				
		i 📑	6: GND (trame) 5: +10V		
Efficiency:	IE3 92,7%	A State of States	4: Setpoint input 3: GND (trame)		

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		Dat	te:
Description	Value		
Number of poles:	2	_	
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protec:	YES		
Motor No:	85901027		
Controls:			
Function Module:	ADVANCED I/O		
Frequency converter:	Built-in		
Pressure sensor:	Yes		
Others:			
Net weight:	303 kg		
Gross weight:	379 kg		
Shipping volume:	1.14 m³		
Thrust handling device:	Ν		
Approvals:	CE, EAC, ACS, WRAS		
Country of origin:	DK		
Custom tariff no .:	84137075		

