

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



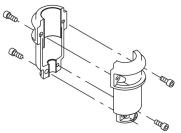
Date:

26/11/2019

Qty. Description

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.



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.

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:

26/11/2019



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:

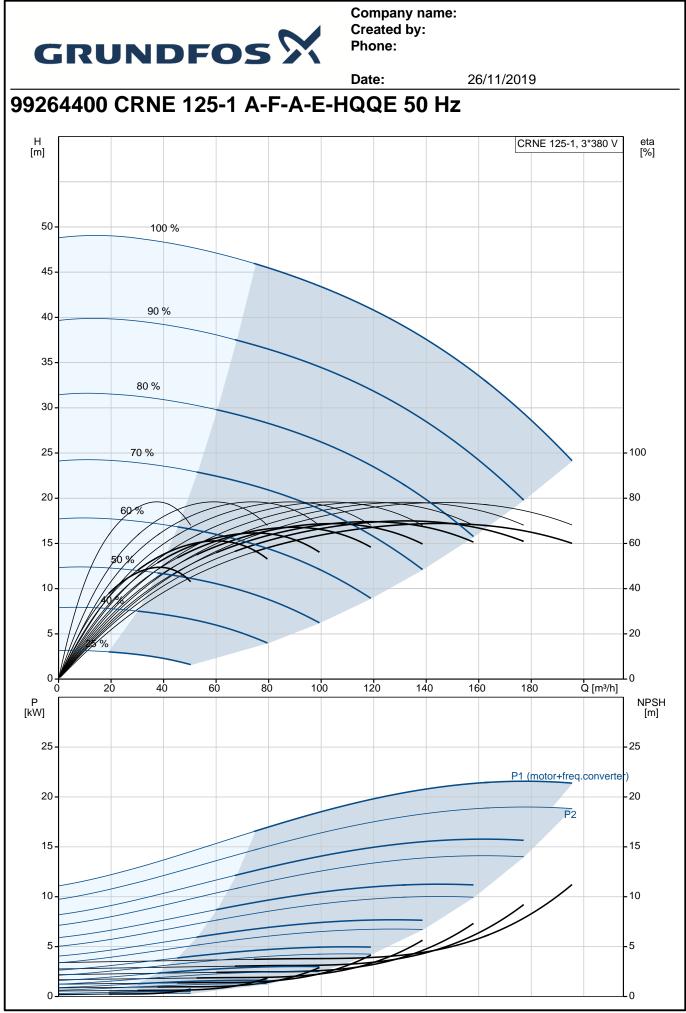
- pump start/stop input (potential-free contact)
- remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA
- 10 V voltage supply for setpoint potentiometer, Imax = 5 mA
- three analog sensor inputs, 0-10 V, 0(4)-20 mA
- 24 V voltage supply for sensor, Imax = 40 mA
- one analog output
- three digital 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

Controls: Frequency converter: Pressure sensor:	Built-in No
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liquid tempe	Water -40 120 °C 20 °C erature: 998.2 kg/m³
Technical: Pump speed on which pump da Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Curve tolerance:	ta are based: 3566 rpm 150 m³/h 36.4 m Vertical Single HQQE ISO9906:2012 3B
Materials: Base: Impeller: Bearing: Support bearing: Material certified according to:	Stainless steel EN 1.4408 Stainless steel EN 1.4401 WC/WC Graflon European standards



			Date:	26/11/2019	
ty.	Description				
	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 connec				
	Flange size for motor:	FF300			
		11000			
	Electrical data:				
	Motor standard:	IEC			
	Motor type:	180MB			
	IE Efficiency class:	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 ³			
	Thrust handling device:	N			
	Approvals:	CE, EAC, ACS, WRA	S		
	Country of origin:	DK	0		
	Custom tariff no.:	84137075			
	Custom tanin no.:	84137075			



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		Date:	26/1	1/2019	
Description	Value	H [m]		CRNE 125-1, 3*38	0 V eta [%]
General information:					
Product name:	CRNE 125-1 A-F-A-E-HQQE	50 -	100 %		
Product No:	99264400	45 -			
EAN number:	5713826223786	- 5-			
LAN number.	5713826223786	40 -	90 %		
Technical:	0110020220100	35 -			
Pump speed on which pump data are	3566 rpm		80 %		
based:	3566 rpm	30 -			
Rated flow:	150 m³/h	25 -	70 %		100
Rated head:	36.4 m				
Head max:	49.2 m	20 -	60 %	1 hrst	- 80
Stages:	1	15-	THE	ALW.	- 60
Impellers:	1		59/2		
Low NPSH:	No	10 -			- 40
Pump orientation:	Vertical				20
Shaft seal arrangement:	Single	5-	×5 %		- 20
Code for shaft seal:	HQQE	o 🖊			0
Curve tolerance:	ISO9906:2012 3B	0 D Г	50	100 150 Q [m	³ /h] NPSH
Pump version:	A	P [kW]			[m]
Model:	A	25 -			- 25
Materials:		20 -		P1 (motor+freq	.converter) 20
Base:	Stainless steel	20		P2	20
	EN 1.4408	15 -			- 15
Impeller:	Stainless steel				
	EN 1.4401	10 -			- 10
Material code:	A	5-			- 5
Code for rubber:	E	5.		and the second s	
Bearing:	WC/WC	0 _			0
Support bearing:	Graflon	1			
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	<u>G 1/2</u>	G 1/2		
Size of inlet connection:	DN 150				
Size of outlet connection:	DN 150				
Pressure rating for pipe connection:	PN 16	783		8 x 22	
Flange size for motor:	FF300	N/A	4 X G 1/2		
Connect code:	F				
Liquid:					
Pumped liquid:	Water		332	425	
Liquid temperature range:	-40 120 °C		485	499	
Selected liquid temperature:	20 °C				
Density at selected liquid temperature:	998.2 kg/m³				
Electrical data:					
Motor standard:	IEC				
Motor type:	180MB				
IE Efficiency class:	IE3				
Rated power - P2:	22 kW	¢	•		
Power (P2) required by pump:	22 kW		20: P100 B 12: P100 B 18: P100 A		
Mains frequency:	50 Hz		17: Pr100 A 16: GND (terms) 15: 24V 14: Sensor input2		
Rated voltage:	3 x 380-480 V		13: GND 12: Analog sulput 11: Digital Input 4 11: Digital Input 3		
Rated current:	43.5-35.0 A		I I I Ugetal Irput 2: GND (frame) 8: 424V 7: Sensor Irput 0: 0 +		
Cos phi - power factor:	0.91-0.90		1: RS-4858 Y: Screen A: RS-485A 		
Rated speed:	480-3540 rpm				
Efficiency:	IE3 92,7%	ي موري معين ا			
Motor efficiency at full load:	92.7 %				

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		D	ate:
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:	No		
Others:			
Net weight:	303 kg		
Gross weight:	379 kg		
Shipping volume:	1.14 m³		
Thrust handling device:	N		
Approvals:	CE, EAC, ACS, WRAS		
Country of origin:	DK		
Custom tariff no.:	84137075		

