

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



26/11/2019

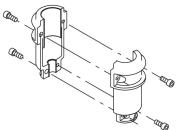
Qty. | Description

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.

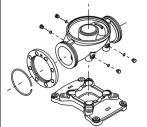


26/11/2019

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:

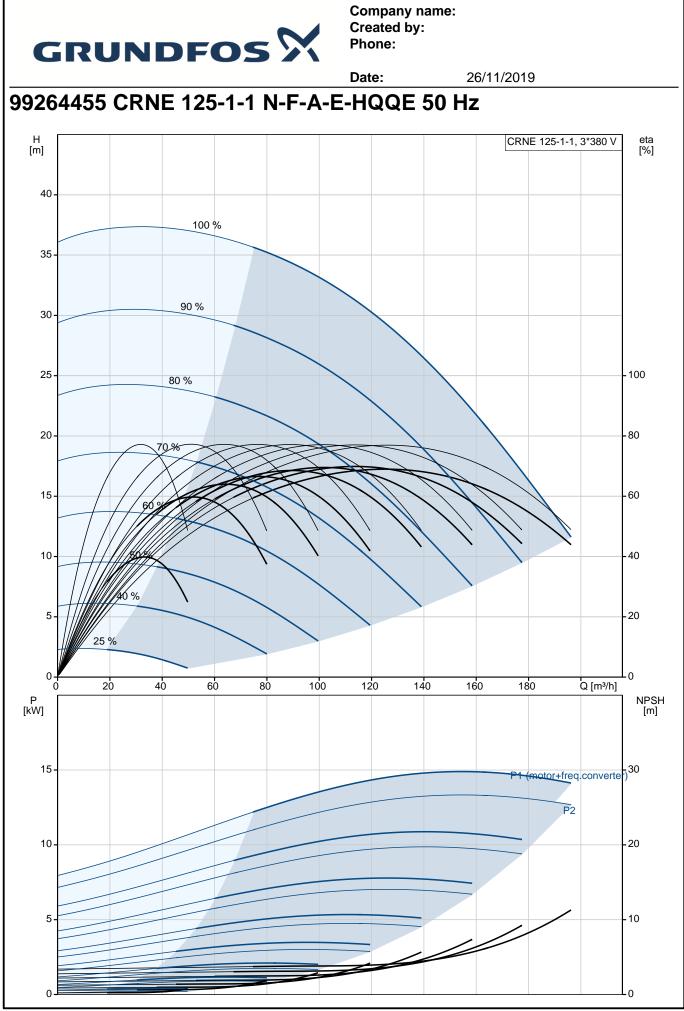
Pumped liquid:	Water
Liquid temperature range:	-40 120 °C
Selected liquid temperature:	20 °C
Density at selected liquid tempe	rature: 998.2 kg/m ³

Technical:

	rechnical:				
	Pump speed on which pump data are based: 3555 rpm				
	Rated flow:	150 m³/h			
	Rated head:	24.4 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	ion: PN 16			



		Date:	26/11/2019	
Description				
Flange size for motor:	FF300			
-				
Electrical data:				
Motor standard:	IEC			
Motor type:	160MD			
IE Efficiency class:	IE3			
Rated power - P2:	15 kW			
Power (P2) required by pump:	15 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-480 V			
Rated current:	30.0-26.0 A			
Cos phi - power factor:	0.91-0.86			
Rated speed:	480-3540 rpm			
Efficiency:	IE3 91,9%			
Motor efficiency at full load:	91.9 %			
Number of poles:	2			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Motor No:	85901025			
Others:				
Net weight:	278 kg			
Gross weight:	354 kg			
Shipping volume:	1.14 m ³			
Thrust handling device:	N			
Approvals:	CE, EAC, ACS, WRAS	3		
Country of origin:	DK			
Custom tariff no.:	84137075			



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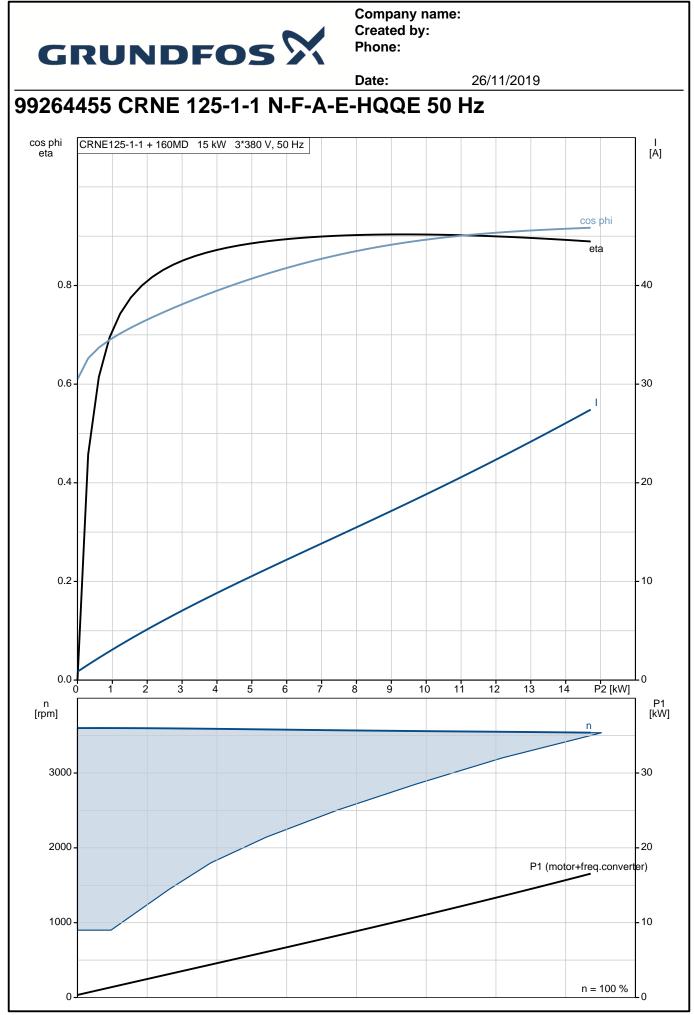


		Date:	26/11	/2019	
Description	Value	H [m]		CRNE 125-1-1, 3*	'380 V eta [%]
General information:	Taluc				
Product name:	CRNE 125-1-1 N-F-A-E-HQQE	40 -	100 %		
Product No:	99264455	35 -			
EAN number:	5713826224837	—			
	5713826224837	30-	90 %		
Technical:	5715020224057	25 -			- 100
Pump speed on which pump data are based:	3555 rpm	20-	80 %		- 100
Rated flow:	150 m³/h	20 -	70%		- 80
Rated head:	24.4 m			1 States	
Head max:	37.4 m	15-	6 ALIN	NN NN V	- 60
Stages:	1			1 /	
Impellers:	1	10 -		11 11 1 11	×40
Number of reduced-diameter impellers:	1		0%		
Low NPSH:	No	5 -			- 20
Pump orientation:	Vertical				
Shaft seal arrangement:	Single		50 10	0 150 Q	[m³/h]
Code for shaft seal:	HQQE	P			NPSH
Curve tolerance:	ISO9906:2012 3B	[kW]			[m]
Pump version:	N	15 -		P1 (motor+f	req.con v∂ Qer)
Model:	A				
Materials:	~				P2
Base:	Stainless steel	10 -			- 20
Dase.	EN 1.4408				
leen elle v		5-			10
Impeller:	Stainless steel				
	EN 1.4401				
Material code:	A	0			0
Code for rubber:	E				
Bearing:	WC/WC	314	1		
Support bearing:	Graflon				
Material certified according to:	European standards				
Installation:			a		
Maximum ambient temperature:	40 °C		350		
Maximum operating pressure:	16 bar		<u>G 1/2</u>		
Max pressure at stated temp:	16 bar / 120 °C				
Type of connection:	DIN				
Size of inlet connection:	DN 150	48		8 x 22	
Size of outlet connection:	DN 150	N/A 4	X G 1/2		
Pressure rating for pipe connection:	PN 16		<u>4 x 22.5</u>		
Flange size for motor:	FF300	8 275	*		
Connect code:	F	332	42		
Liquid:		485	49	19 -	
Pumped liquid:	Water				
Liquid temperature range:	-40 120 °C				
Selected liquid temperature:	20 °C				
Density at selected liquid temperature:	998.2 kg/m ³				
Electrical data:					
Motor standard:	IEC	R			
Motor type:	160MD				
IE Efficiency class:	IE3		20: Pt100 B 19: Pt100 B 18: Pt100 A		
Rated power - P2:	15 kW		12: Pt100 A 10: CMU (trams) 15: 24V 14: Samaor input2		
Power (P2) required by pump:	15 kW		13: GND 12: Analog output 11: Digital Input 4 10: Digital Input 3		
Mains frequency:	50 Hz		1: Digital input 9: GND (frame) 8: +24V 7: Sensor input		
Rated voltage:	3 x 380-480 V		7:Samor Input G B:R3-4058 G Y:Somen G A:R5-485A G		
Rated current:	30.0-26.0 A		00000		
			5: GND (hame) 5: +10V 4: Setpoint input		
Cos phi - power factor:	0.91-0.86		3: GND (frame)		

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		Date:	26/11/2019
Description	Value		
Efficiency:	IE3 91,9%	-	
Motor efficiency at full load:	91.9 %		
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:	278 kg		
Gross weight:	354 kg		
Shipping volume:	1.14 m³		
Thrust handling device:	Ν		
Approvals:	CE, EAC, ACS, WRAS		
Country of origin:	DK		
Custom tariff no.:	84137075		



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