

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

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



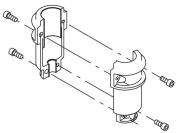
Date:

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:

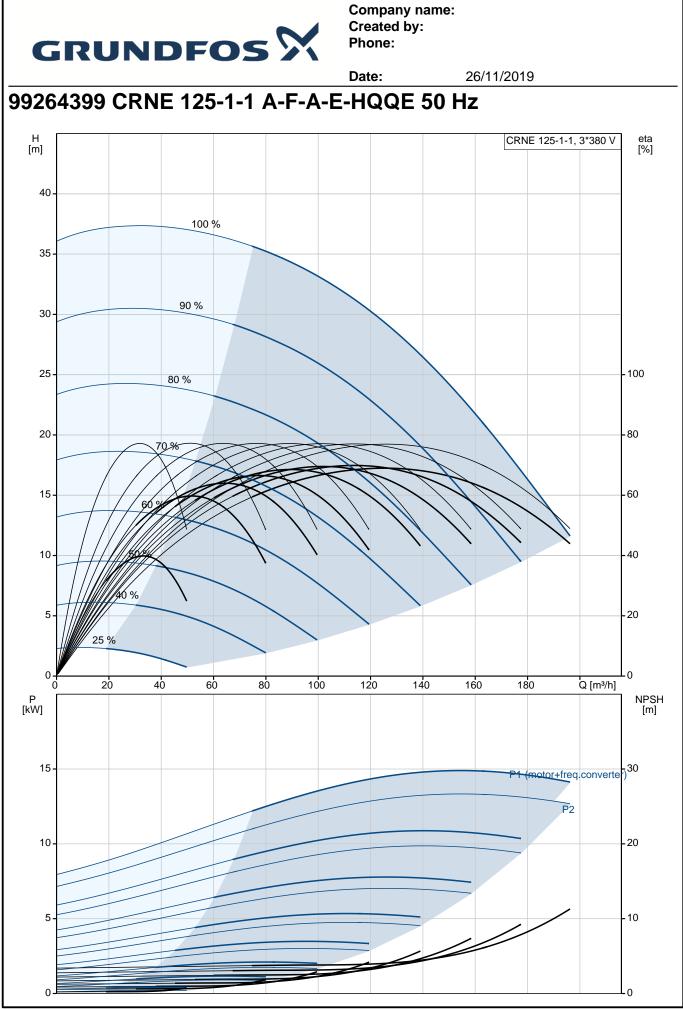
- pump start/stop input (potential-free contact)
- remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA
- 10 V voltage supply for setpoint potentiometer, Imax = 5 mA
- three analog sensor inputs, 0-10 V, 0(4)-20 mA
- 24 V voltage supply for sensor, Imax = 40 mA
- one analog output
- three digital 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: 3555 rpm 150 m³/h 24.4 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	
у.	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 connect				
	Flange size for motor:	FF300			
	Electrical data:				
	Motor standard:	IEC			
		160MD			
	Motor type:				
	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:	Ν			
	Approvals:	CE, EAC, ACS, WRA	S		
	Country of origin:	DK			
	Custom tariff no.:	84137075			



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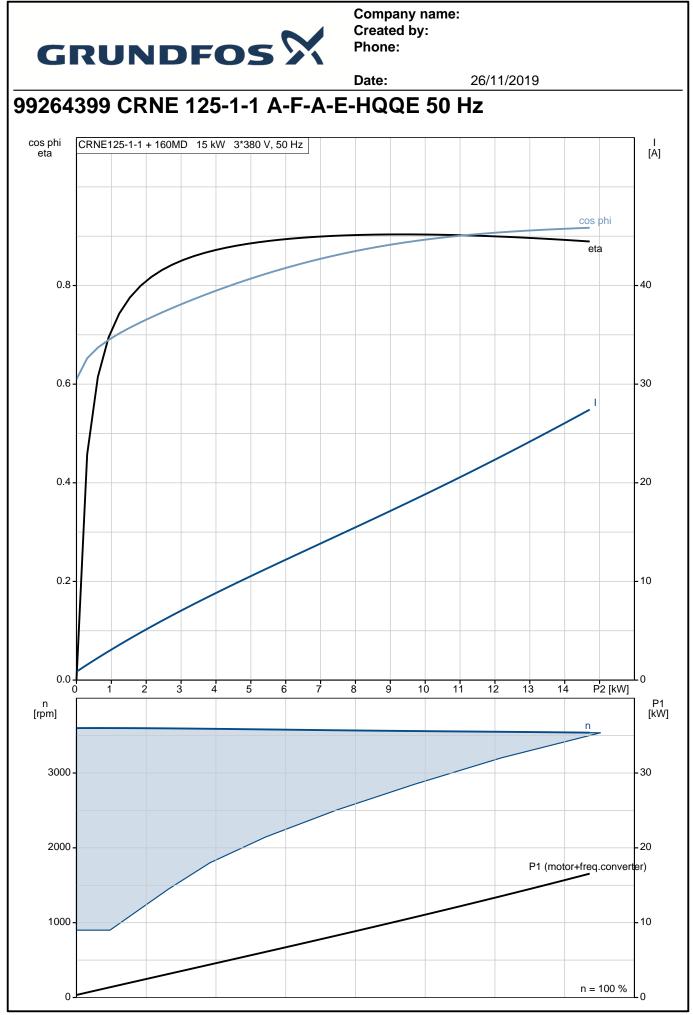


		Date:	26/11/2019
Description	Value	H [m]	CRNE 125-1-1, 3*380 V eta [%]
General information:		40-	
Product name:	CRNE 125-1-1 A-F-A-E-HQQE		100 %
Product No:	99264399	35 -	
EAN number:	5713826223762		
	5713826223762	30 -	90 %
Technical:	37 130202237 02	25 -	80 %
Pump speed on which pump data are based:	3555 rpm	23-	80%
Rated flow:	150 m³/h	20 -	-80
Rated head:	24.4 m	_	
Head max:	37.4 m	15 -	60
Stages:	1	— —	
Impellers:	1	10-//	
Number of reduced-diameter impellers:			
Low NPSH:	•	5-	-20
Pump orientation:	No Vertical	2	25 %
Shaft seal arrangement:	Single	0 <mark>//</mark>	50 100 150 Q [m³/h]
Code for shaft seal:	HQQE	P [
Curve tolerance:	ISO9906:2012 3B	[kW]	NPSH [m]
		15 -	
Pump version: Model:	A		P1 (metor+freq.corv3Qer)
Model: Materials:	A		P2
	Otoinlana ataol	10 -	-20
Base:	Stainless steel EN 1.4408	_	
Impeller:	Stainless steel	5-	10
	EN 1.4401		
Material code:	A	0	
Code for rubber:	E	1	
Bearing:	WC/WC	314	308
Support bearing:	Graflon		
Material certified according to:	European standards		
Installation:		482	
Maximum ambient temperature:	40 °C		
Maximum operating pressure:	16 bar	G 1/2	
Max pressure at stated temp:	16 bar / 120 °C		
Type of connection:	DIN		
Size of inlet connection:	DN 150	183	8 x 22
Size of outlet connection:	DN 150	N/A	4 X G 1/2
Pressure rating for pipe connection:	PN 16		
Flange size for motor:	FF300		
Connect code:	F	275 332	425
Liquid:		485	499
Pumped liquid:	Water		
Liquid temperature range:	-40 120 °C		
Selected liquid temperature:	20 °C		
Density at selected liquid temperature:	998.2 kg/m ³	me	
Electrical data:	~		
Motor standard:	IEC	R. C.	
Motor type:	160MD		
IE Efficiency class:	IE3	(
Rated power - P2:	15 kW		16 P103 A 17 P103 A 16 CARD (Insw) 15 24V
Power (P2) required by pump:	15 kW		14 Sensor Hpu2 1 12 (AND 12, Knikig output 11: Digital Hpu4
Mains frequency:	50 Hz	— i fi	1 10 Oppoint road 3 1 10 Oppoint road 1 2 0 ODD frame) 8 = 0.400 D frame)
Rated voltage:	3 x 380-480 V		2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
Rated current:	30.0-26.0 A		
	0.91-0.86		
Cos phi - power factor:		(Care Care Care Care Care Care Care Care	2 Oktober 2 Statistic PROPI
Rated speed:	480-3540 rpm	لقا ا	

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		Date:
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:	No	
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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