у.	Description			
	CRE 125-1 N-F-A-E-HQQE			
	Note! Product picture may differ from actual product			
	Product No.: 99264452			
	Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. The Grundfos cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges.			
	The pump is fitted with a 3-phase, fan-cooled asynchronous motor. The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously			
	variable control of the motor speed, which again enables adaptation of the performance to a given requirement. An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Mir or "Max." operation or to "Stop". The operating panel has indicator lights for "Operation" and "Fault".			
	Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".			
	 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; the factory-fitted pressure sensor is connected to one of the inputs 			
	 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. 			
	Further product details			
	The pump is equipped with a pressure sensor registering pump outlet pressure and enabling controlled pump operation based on constant pressure.			
	An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Mir or "Max." operation or to "Stop". The operating panel has indicator lights for "Operation" and "Fault".			
	Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".			
	Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process.			
	CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.			
	 An integral part of the process is a pretreatment. The entire process consists of these elements: Alkaline-based cleaning. Zinc phosphating. Cathodic electro-deposition. Curing to a dry film thickness 18-22 my m. 			
	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.			

1

Carlo Carlo

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.

Seal faces:

- 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)

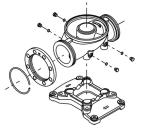
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



The shaft seal is screwed into the pump head.

The 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 base is made of cast iron and mounted on a separate cast-iron base plate. 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.



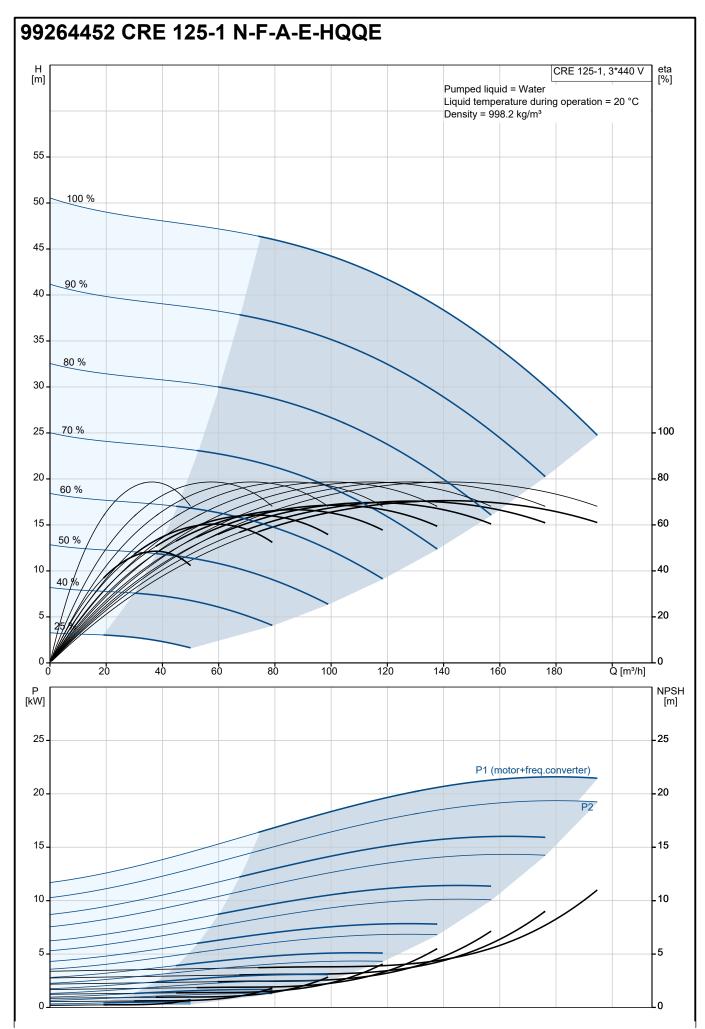
Motor

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).

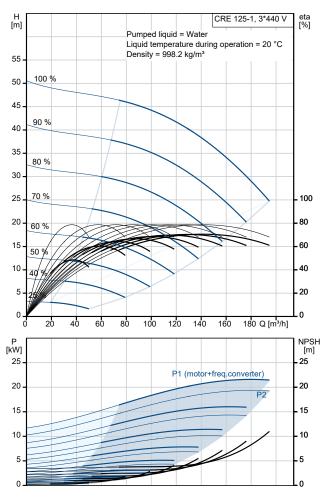
Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II). Electrical tolerances comply with IEC 60034.

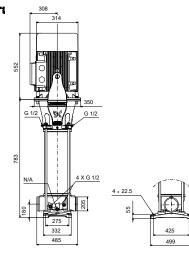
7. Description							
The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.							
The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.							
							Technical data
Liquid:							
Pumped liquid:	Water						
Liquid temperature range:	-20 120 °C						
Selected liquid temperature:	20 °C						
Density:	998.2 kg/m³						
Technical:							
Pump speed on which pump dat	a are based: 3565 rpm						
Rated flow:	150 m ³ /h						
Rated head:	36.9 m						
Pump orientation:	Vertical						
Shaft seal arrangement:	Single						
Code for shaft seal:	HQQE						
Approvals and markings:	CE,EAC,UKCA,SEPRO						
Approvals for drinking water:	ACS						
Curve tolerance:	ISO9906:2012 3B						
Materials:	Ductile cost iron						
Base:	Ductile cast iron						
	EN 1563 EN-GJS-500-7						
	ASTM A536-84 65-45-12						
Impeller:	Stainless steel						
	EN 1.4301						
	AISI 304						
Bearing arrangement:	WC/WC						
	Grafion						
Support bearing:							
Material certified according to:	European standards						
Installation:							
t max amb:	40 °C						
Maximum operating pressure:	16 bar						
	16 bar / 120 °C						
Max pressure at stated temp:							
Type of connection:	DIN						
Size of inlet connection:	DN 150						
Size of outlet connection:	DN 150						
Pressure rating for connection:	PN 16						
Flange size for motor:	FF300						
Electrical data:							
Motor standard:	IEC						
Motor type:	180MB						
IE Efficiency class:	IE3						
Rated power - P2:	22 kW						
Power (P2) required by pump:	22 kW						
Over/undersize motor:	Standard motor size						
Mains frequency:	50 / 60 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): Motor No:	F 85901027						
Controls: Frequency converter:	Built-in						

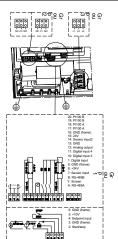
Description	
Pressure sensor:	Y
Others: Minimum efficiency index, MEI ≥: Net weight: Gross weight: Shipping volume:	0.70 303 kg 367 kg 1.14 m ³
Thrust handling device:	Ν
	Pressure sensor: Others: Minimum efficiency index, MEI ≥: Net weight: Gross weight: Shipping volume:



Description	Value
General information:	
Product name:	CRE 125-1 N-F-A-E-HQQE
Product No:	99264452
EAN number:	5713826224776
Technical:	
Pump speed on which pump data are based:	3565 rpm
Rated flow:	150 m³/h
Rated head:	36.9 m
Maximum head:	50.8 m
Impellers:	1
Number of reduced-diameter impellers:	0
Low NPSH:	Ν
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals and markings:	CE,EAC,UKCA,SEPRO
Approvals for drinking water:	ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	Ν
The first model is called A which is followed by model B, C etc.:	A
Materials:	
Base:	Ductile cast iron
Base:	EN 1563 EN-GJS-500-7
Base:	ASTM A536-84 65-45-12
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Code for rubber:	E
Bearing arrangement:	WC/WC
Support bearing:	Graflon
Material certified according to:	European standards
Installation:	
t max amb:	40 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
Type of connection:	DIN
Type of connection: Size of inlet connection:	DIN DN 150
Type of connection: Size of inlet connection: Size of outlet connection:	DIN DN 150 DN 150
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection:	DIN DN 150 DN 150 PN 16
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor:	DIN DN 150 DN 150 PN 16 FF300
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code:	DIN DN 150 DN 150 PN 16
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid:	DIN DN 150 DN 150 PN 16 FF300 F
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid:	DIN DN 150 DN 150 PN 16 FF300 F Water
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C 998.2 kg/m ³
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C 998.2 kg/m ³ IEC
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor type:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C 998.2 kg/m ³ IEC 180MB
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor type: IE Efficiency class:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C 998.2 kg/m ³ IEC 180MB IE3
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C 998.2 kg/m ³ IEC 180MB IE3 22 kW
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C 998.2 kg/m ³ IEC 180MB IE3 22 kW 22 kW
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Over/undersize motor:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C 998.2 kg/m ³ IEC 180MB IE3 22 kW 22 kW Standard motor size
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Over/undersize motor: Mains frequency:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C 998.2 kg/m ³ IEC 180MB IE3 22 kW 22 kW Standard motor size 50 / 60 Hz
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Over/undersize motor: Mains frequency: Rated voltage:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C 998.2 kg/m ³ IEC 180MB IE3 22 kW 22 kW Standard motor size 50 / 60 Hz 3 x 380-480 V
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Over/undersize motor: Mains frequency: Rated voltage: Rated current:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C 998.2 kg/m ³ IEC 180MB IE3 22 kW 22 kW 22 kW Standard motor size 50 / 60 Hz 3 x 380-480 V 43.5-35.0 A
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Over/undersize motor: Mains frequency: Rated voltage: Rated current: Cos phi - power factor:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C 998.2 kg/m ³ IEC 180MB IE3 22 kW 22 kW 22 kW Standard motor size 50 / 60 Hz 3 x 380-480 V 43.5-35.0 A 0.91-0.90
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Over/undersize motor: Mains frequency: Rated voltage: Rated current:	DIN DN 150 DN 150 PN 16 FF300 F Water -20 120 °C 20 °C 998.2 kg/m ³ IEC 180MB IE3 22 kW 22 kW 22 kW Standard motor size 50 / 60 Hz 3 x 380-480 V 43.5-35.0 A



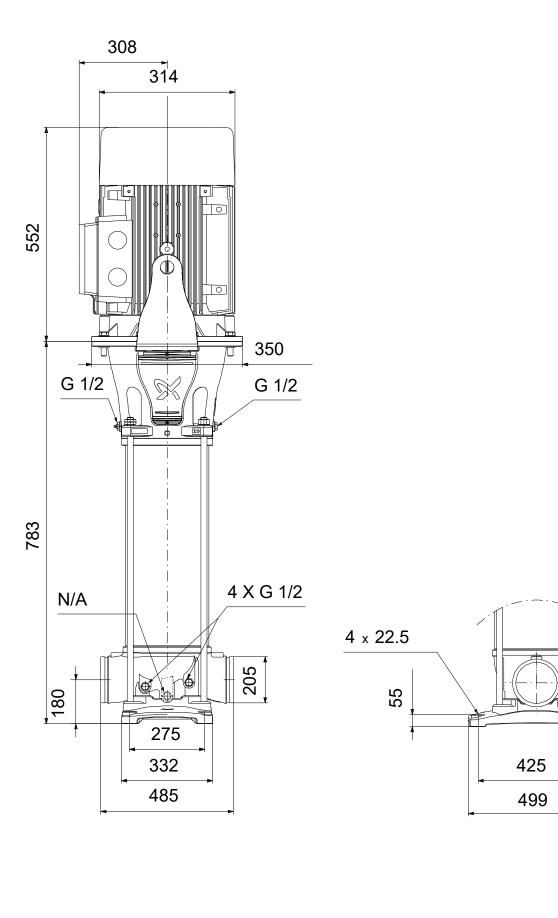




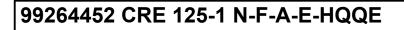
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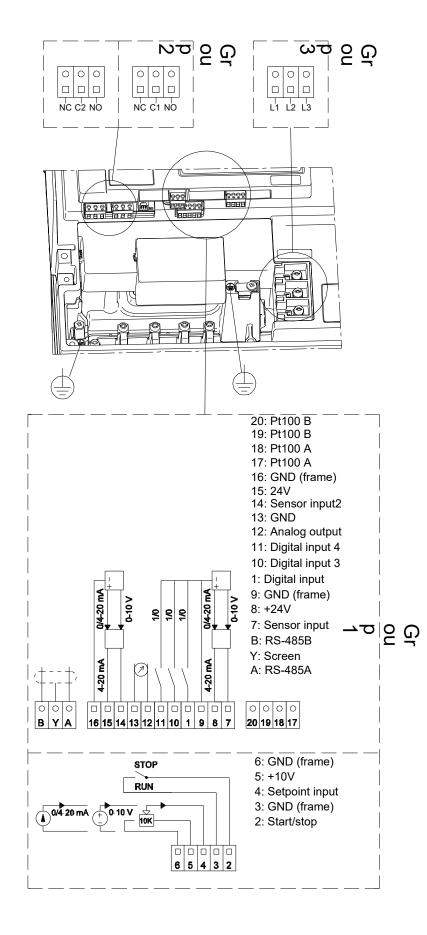
Description	Value	
Motor efficiency at full load:	92.7 %	
Number of poles:	2	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Built-in motor protection:	YES	
Motor No:	85901027	
Controls:		
Function Module:	ADVANCED I/O	
Frequency converter:	Built-in	
Pressure sensor:	Y	
Others:		
Minimum efficiency index, MEI ≥:	0.70	
Net weight:	303 kg	
Gross weight:	367 kg	
Shipping volume:	1.14 m³	
Config. file no:	95139537	
Thrust handling device:	Ν	

99264452 CRE 125-1 N-F-A-E-HQQE



Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.





Note! All units are in [mm] unless others are stated.

Order Data:							
Position	Your pos.	Product name	Amount	Product No	Total		
		CRE 125-1	1	99264452	Price or reques		
					reques		