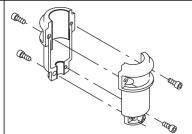
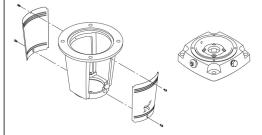
y.	Description				
	CRE 32-5-2 A-F-A-E-HQQE				
	Note! Product picture may differ from actual product				
	Product No.: 96122663				
Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head an are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, sa handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is vi 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 "M 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 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 An external sensor can be connected if controlled pump operation based on for example flow, differential pressure temperature is required.					
					An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." 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: 1) Alkaline-based cleaning. 2) Zinc phosphating. 				
	 3) Cathodic electro-deposition. 4) 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



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.

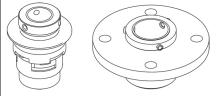
Seal faces:

- 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 retained in the pump head by a cover and screws. It can be replaced without removing the motor.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE 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. 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

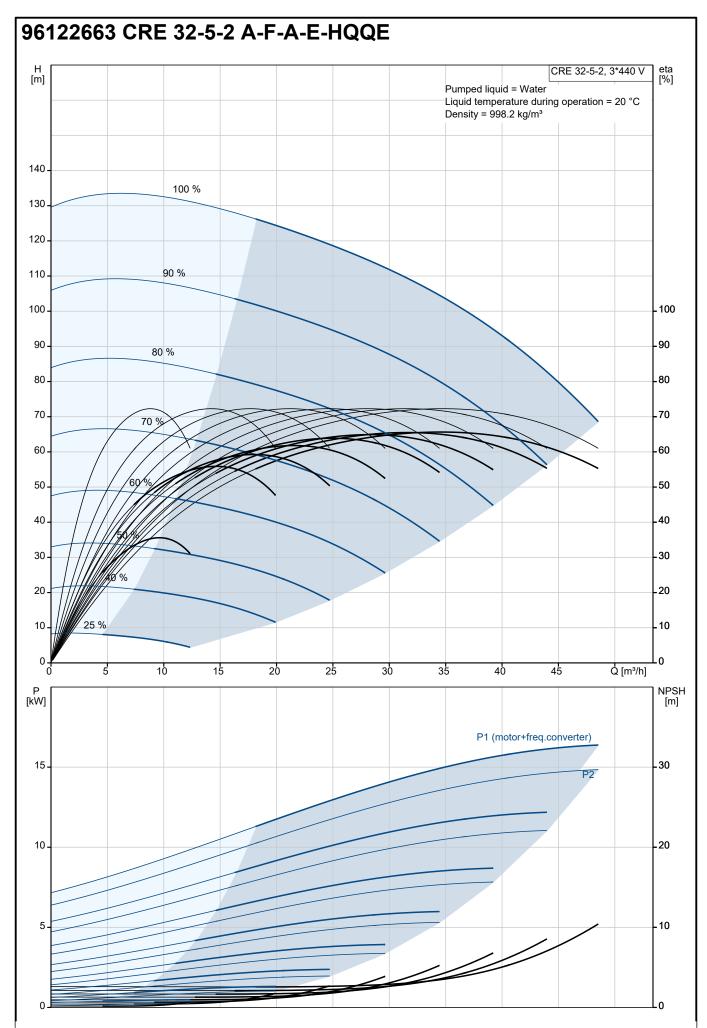
The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

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

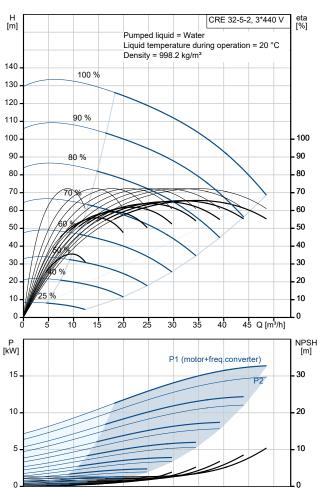
The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

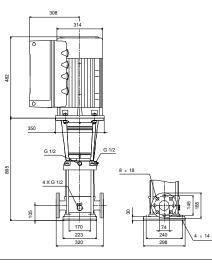
ty.	Description						
1	The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.						
	 The terminal box holds terminals for these connections: pump start/stop input (potential-free 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						
	Liquid:						
	Pumped liquid:	Water					
	Liquid temperature range:	-30 120 °C					
	Selected liquid temperature:	20 °C					
	Density:	998.2 kg/m ³					
	Technical:						
	Pump speed on which pump dat	a are based: 3528 rpm					
	Rated flow:	36 m³/h					
	Rated head:	99.1 m					
	Pump orientation:	Vertical					
	Shaft seal arrangement:	Single					
	Code for shaft seal:	HQQE					
	Approvals and markings:	CE,EAC,UKCA,SEPRO					
	Approvals for drinking water:	WRAS,ACS					
	Curve tolerance:	ISO9906:2012 3B					
	Materials:						
	Base:	Cast iron					
		EN 1563 EN-GJS-500-7					
	Impeller:	ASTM A536 80-55-06 Stainless steel					
	Impeller.	EN 1.4301					
		AISI 304					
	Bearing arrangement:	SIC					
	Support bearing:	Grafion					
	Installation:						
	t max amb:	40 °C					
	Maximum operating pressure:	16 bar					
	Max pressure at stated temp:	16 bar / 120 °C					
		16 bar / -30 °C					
	Type of connection:	DIN					
	Size of inlet connection:	DN 65					
	Size of outlet connection:	DN 65					
	Pressure rating for connection:	PN 40					
	Flange size for motor:	FF300					
	Electrical data:						
	Motor standard:						
	Motor type:	160MD					
	IE Efficiency class:						
	Rated power - P2:	15 kW					
	Power (P2) required by pump: Over/undersize motor:	15 kW Standard motor size					
	Mains frequency:	Standard motor size 50 / 60 Hz					
	Rated voltage:	3 x 380-480 V					
	Rated current:	30.0-26.0 A					

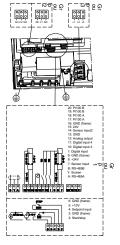
	Description			
1	Cos phi - power factor:	0.91-0.86		
	Rated speed:	480-3540 rpm		
	Efficiency:	IE3 91,9%		
	Motor efficiency at full load:	91.9 %		
		2		
	Number of poles:			
	Enclosure class (IEC 34-5):	IP55		
	Insulation class (IEC 85):	F		
	Motor No:	85901025		
	Controls:			
	Frequency converter:	Built-in		
	Pressure sensor:	Ν		
	Others:			
	Minimum efficiency index, MEI			
	Net weight:	203 kg		
	Gross weight:	254 kg		
	Shipping volume:	0.819 m ³		
	Danish VVS No.:	385946752		
	Finnish LVI No.:	4925710		
	Country of origin:	GB		
	Custom tariff no.:	84137075		
		0.101010		



Description	Value
General information:	
Product name:	CRE 32-5-2 A-F-A-E-HQQE
Product No:	96122663
EAN number:	5700396687070
Technical:	
Pump speed on which pump data are based:	3528 rpm
Rated flow:	36 m³/h
Rated head:	99.1 m
Maximum head:	129.3 m
Number of stages:	5
Impellers:	5
Number of reduced-diameter impellers:	2
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals and markings:	CE,EAC,UKCA,SEPRO
Approvals for drinking water:	WRAS,ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
The first model is called A which is followed by model B, C etc.:	В
Materials:	
Base:	Cast iron
Base:	EN 1563 EN-GJS-500-7
Base:	ASTM A536 80-55-06
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	Α
Code for rubber:	E
Bearing arrangement:	SIC
Support bearing:	Graflon
Installation:	Granon
t max amb:	40 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
•	16 bar / -30 °C
Max pressure at stated temp:	
Type of connection:	DIN
Size of inlet connection:	DN 65
Size of outlet connection:	DN 65
Pressure rating for connection:	PN 40
Flange size for motor:	FF300
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-30 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m ³
Electrical data:	J.
Motor standard:	IEC
Motor type:	160MD
IE Efficiency class:	IE3
Rated power - P2:	15 kW
•	
Power (P2) required by pump:	15 kW Standard mater size
	Standard motor size
Over/undersize motor:	F0 / 00 / '
Over/undersize motor: Mains frequency:	50 / 60 Hz
Over/undersize motor: Mains frequency: Rated voltage:	3 x 380-480 V
Over/undersize motor: Mains frequency: Rated voltage: Rated current:	3 x 380-480 V 30.0-26.0 A
Over/undersize motor: Mains frequency: Rated voltage: Rated current: Cos phi - power factor:	3 x 380-480 V 30.0-26.0 A 0.91-0.86
Over/undersize motor: Mains frequency: Rated voltage: Rated current:	3 x 380-480 V 30.0-26.0 A
Over/undersize motor: Mains frequency: Rated voltage: Rated current: Cos phi - power factor:	3 x 380-480 V 30.0-26.0 A 0.91-0.86

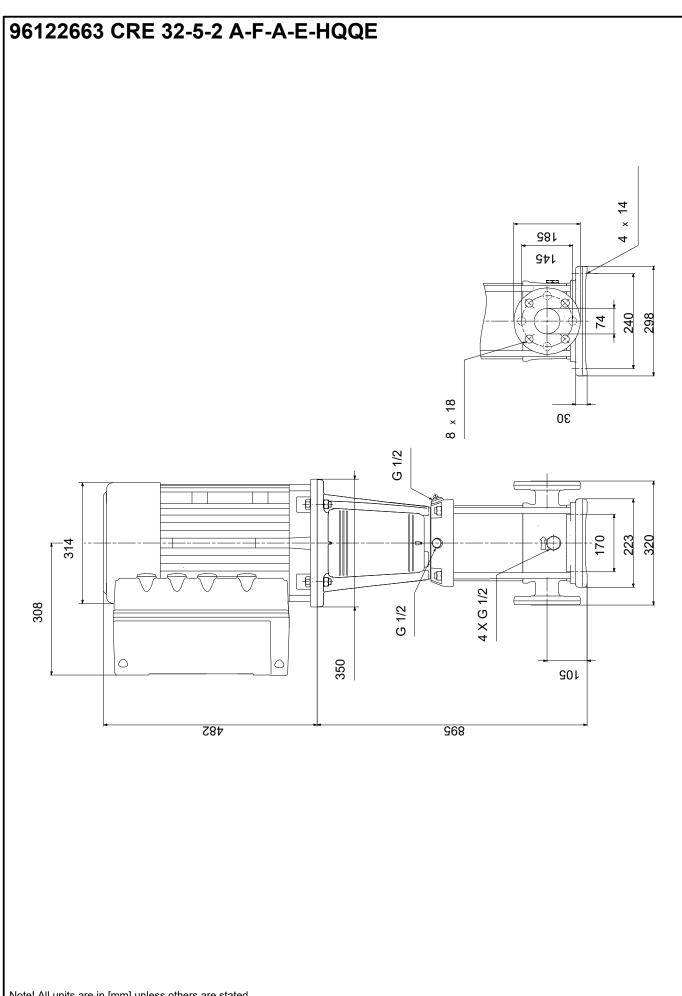






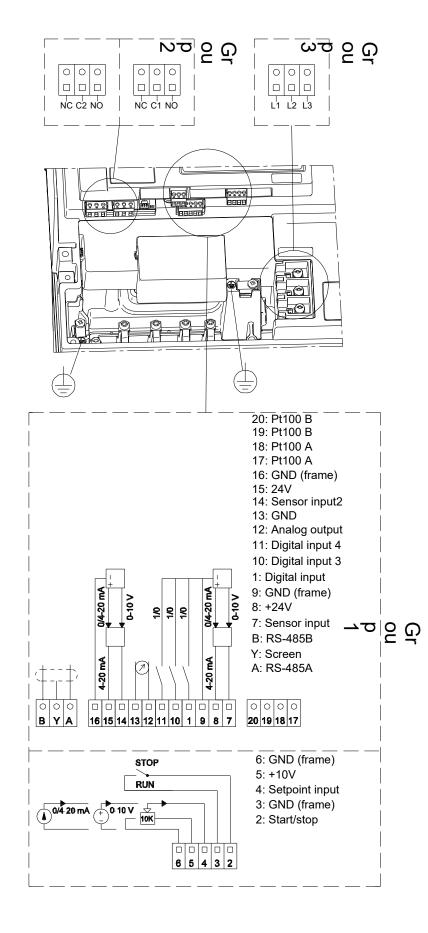
Printed from Grundfos Product Centre [2022.46.007]

Description	Value
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	YES
Motor No:	85901025
Controls:	
Function Module:	ADVANCED I/O
Frequency converter:	Built-in
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	203 kg
Gross weight:	254 kg
Shipping volume:	0.819 m³
Config. file no:	95139527
Danish VVS No.:	385946752
Finnish LVI No.:	4925710
Country of origin:	GB
Custom tariff no.:	84137075



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

96122663 CRE 32-5-2 A-F-A-E-HQQE



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

Order Data:						
Position	Your pos.	Product name	Amount	Product No	Total	
		CRE 32-5-2	1	96122663	Price o reques	
					reques	
			1	1		