

Qty. Description

1 CRE 20-7 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: [98484709](#)

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. A 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 "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".

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, I_{max} = 5 mA
- three analog sensor inputs, 0-10 V, 0(4)-20 mA
- 24 V voltage supply for sensor, I_{max} = 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.

Liquid:

Pumped liquid: Water
 Liquid temperature range: -20 .. 120 °C
 Selected liquid temperature: 20 °C
 Density: 998.2 kg/m³

Technical:

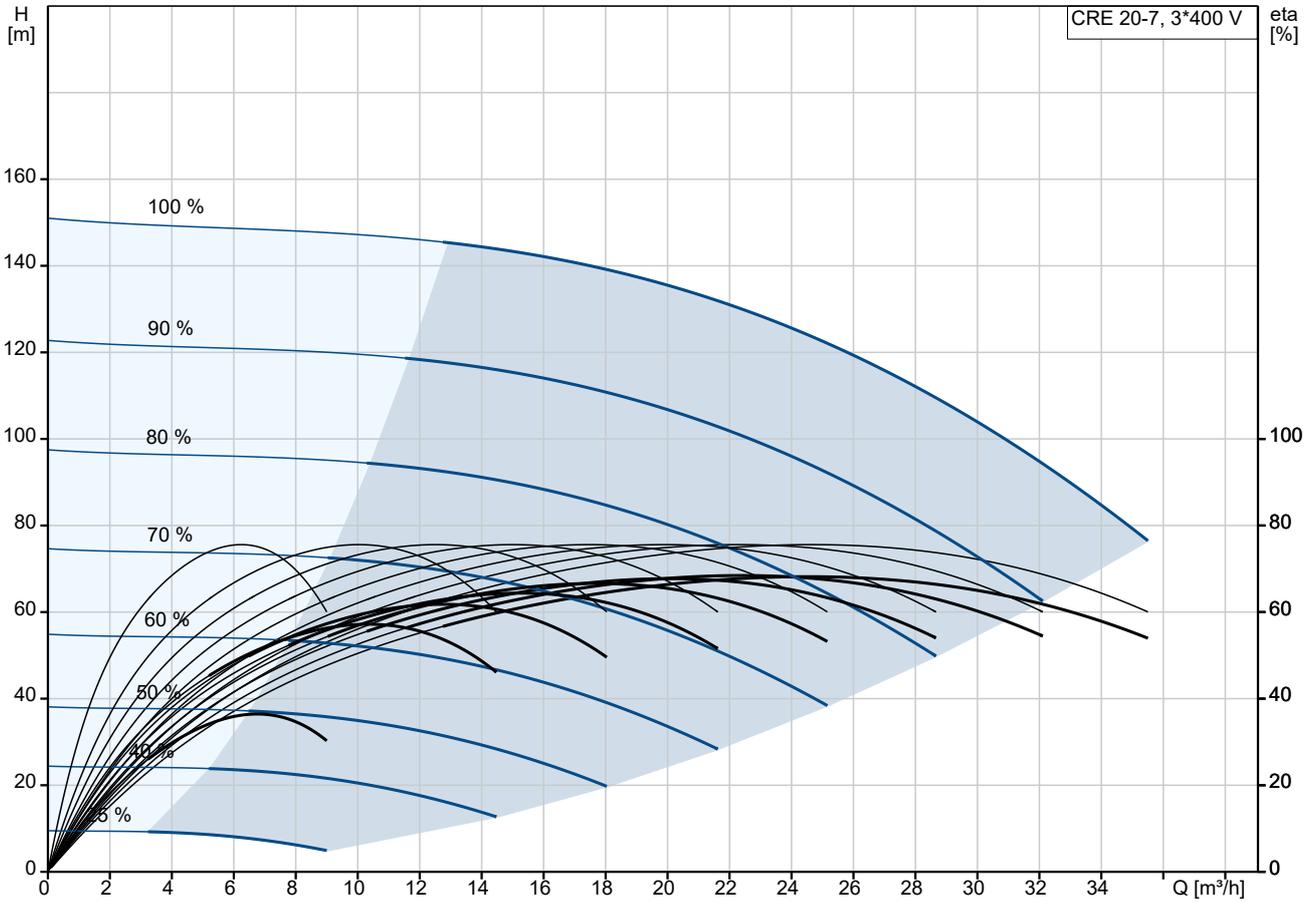
Pump speed on which pump data are based: 3528 rpm
 Rated flow: 25.3 m³/h
 Rated head: 119.9 m
 Pump orientation: Vertical
 Shaft seal arrangement: Single
 Code for shaft seal: HQQE
 Approvals: CE,EAC,UKCA,SEPRO
 Approvals for drinking water: WRAS,ACS
 Curve tolerance: ISO9906:2012 3B

Materials:

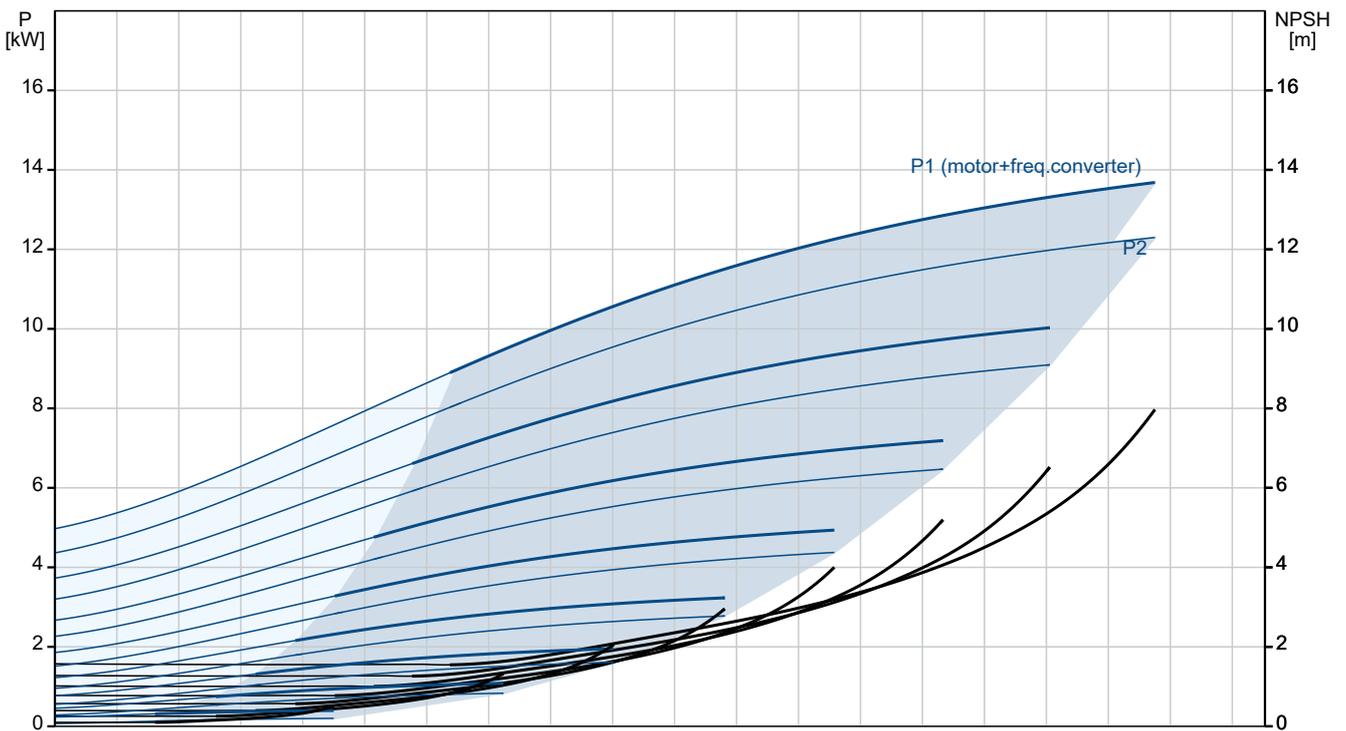
Base: Cast iron

Qty.	Description
1	<p>EN 1561 EN-GJL-200 ASTM A48-25B</p> <p>Impeller: Stainless steel EN 1.4301 AISI 304</p> <p>Bearing: SIC</p> <p>Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Max pressure at stated temp: 16 bar / 120 °C 16 bar / -20 °C</p> <p>Type of connection: DIN Size of inlet connection: DN 50 Size of outlet connection: DN 50 Pressure rating for connection: PN 25 Flange size for motor: FF300</p> <p>Electrical data: Motor standard: IEC Motor type: 160MD Rated power - P2: 15 kW Power (P2) required by pump: 15 kW Over/undersize motor: Standard motor size 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 IE Efficiency class: IE3 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</p> <p>Controls: Frequency converter: Built-in Pressure sensor: N</p> <p>Others: Terminal box position: 6 Minimum efficiency index, MEI ≥: 0.70 Net weight: 205 kg Gross weight: 256 kg Shipping volume: 0.819 m³</p>

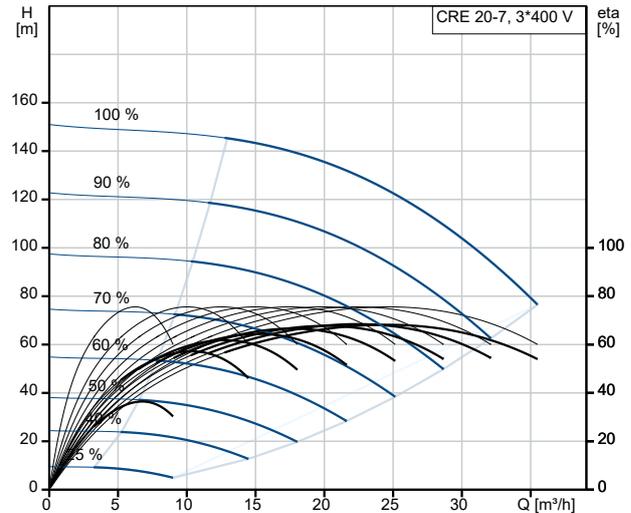
98484709 CRE 20-7 A-F-A-E-HQQE 50 Hz



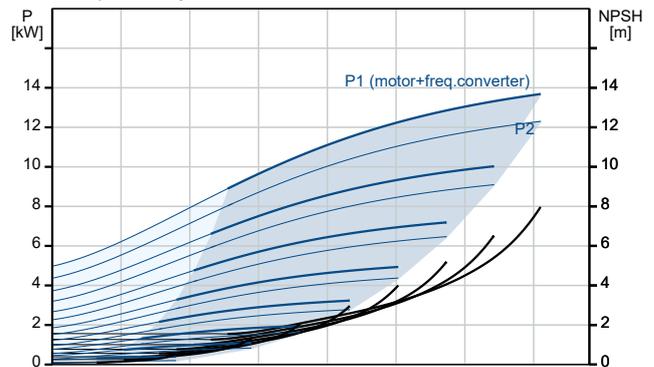
Pumped liquid = Water
 Liquid temperature during operation = 20 °C
 Density = 998.2 kg/m³



Description	Value
General information:	
Product name:	CRE 20-7 A-F-A-E-HQQE
Product No:	98484709
EAN number:	5711495921101
Technical:	
Pump speed on which pump data are based:	3528 rpm
Rated flow:	25.3 m ³ /h
Rated head:	119.9 m
Maximum head:	149 m
Stages:	7
Impellers:	7
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals:	CE,EAC,UKCA,SEPRO
Approvals for drinking water:	WRAS,ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Base:	Cast iron
Base:	EN 1561 EN-GJL-200
Base:	ASTM A48-25B
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
Installation:	
Maximum ambient temperature:	40 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
Max pressure at stated temp:	16 bar / -20 °C
Type of connection:	DIN
Size of inlet connection:	DN 50
Size of outlet connection:	DN 50
Pressure rating for connection:	PN 25
Flange size for motor:	FF300
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m ³
Electrical data:	
Motor standard:	IEC
Motor type:	160MD
Rated power - P2:	15 kW
Power (P2) required by pump:	15 kW
Over/undersize motor:	Standard motor size
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	30.0-26.0 A



Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³





Company name:

Created by:

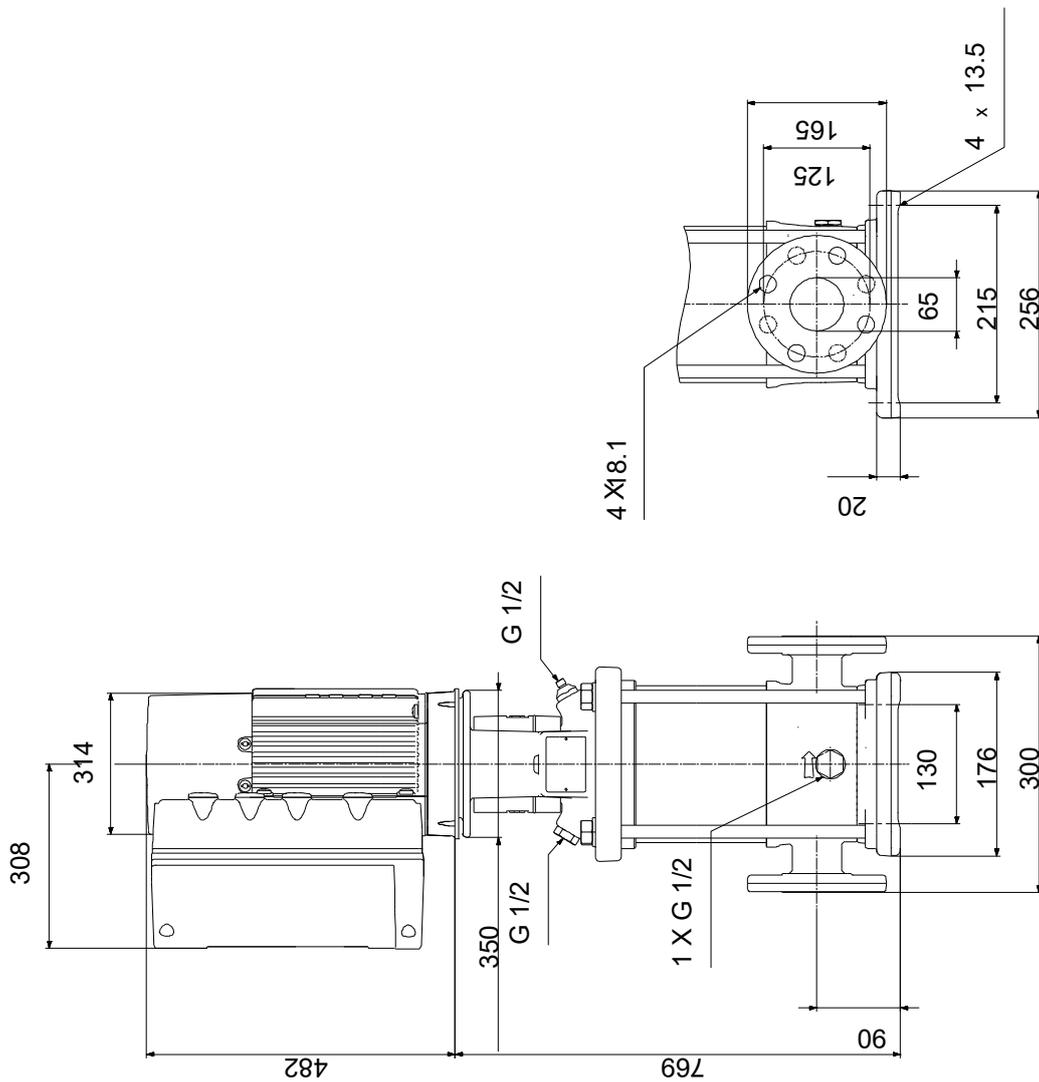
Phone:

Date:

13/07/2024

Description	Value
Cos phi - power factor:	0.91-0.86
Rated speed:	480-3540 rpm
IE Efficiency class:	IE3
Motor efficiency at full load:	91.9 %
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:	N
Others:	
Terminal box position:	6
Minimum efficiency index, MEI \geq :	0.70
Net weight:	205 kg
Gross weight:	256 kg
Shipping volume:	0.819 m ³
Config. file no:	95139527

98484709 CRE 20-7 A-F-A-E-HQQE 50 Hz



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