

## Submittal Data

PROJECT:	UNIT TAG:	QUANTITY:
	TYPE OF SERVICE:	
REPRESENTATIVE:	SUBMITTED BY:	DATE:
ENGINEER:	APPROVED BY:	DATE:
CONTRACTOR:	ORDER NO.:	DATE:

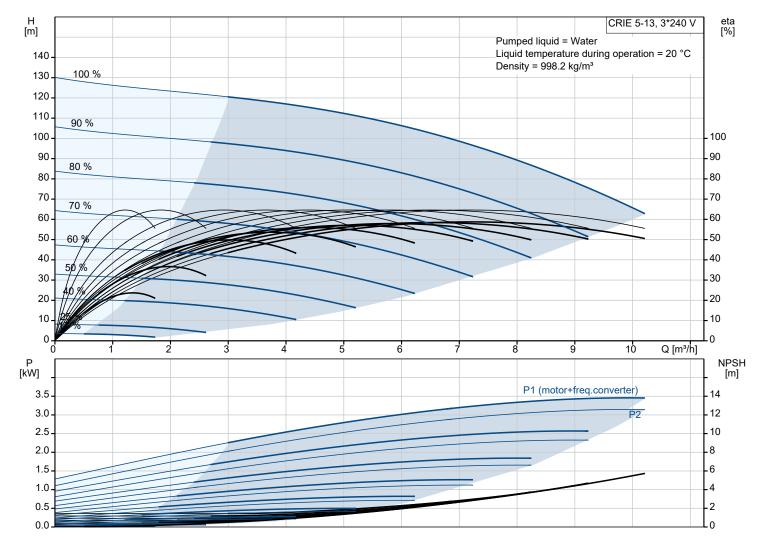


## CRIE 5-13 N-CA-A-E-HQQE

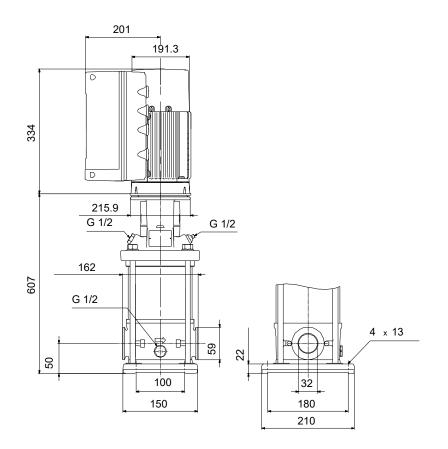
Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in stainless steel (EN 1.4301)

Note! Product picture may differ from actual product

Conditions of Service		Pump Data		Motor Data	
Liquid: Temperature: Specific Gravity:	Water 20 °C 1.000	Max pressure at stated temp: Liquid temperature range: Maximum ambient temperature: Shaft seal: Product number:	25 bar / 120 °C -20 120 °C 40 °C HQQE 99389095	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	3.7 kW 200-240 V 60 Hz IP55 F ELEC 112C 90.9 %







Base:	Stainless steel
Base:	EN 1.4408
Base:	AISI 316
Impeller:	Stainless steel
Impeller:	AISI 304
Impeller:	EN 1.4301
Material code:	А
Code for rubber:	E

Aty. Description				
1 CRIE 5-13 N-CA-A-E-HQQE	CRIE 5-13 N-CA-A-E-HQQE			
Product No.: 99389095	Note! Product picture may differ from actual product			
are in stainless steel. A cartric	pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid ge shaft seal ensures high reliability, safe handling, and easy access and service. Power coupling. Pipe connection is via FlexiClamps.			
	ase, fan-cooled, permanent-magnet, synchronous motor.			
	ed as IE5 in accordance with IEC 60034-30-2.			
I he motor includes a frequence the motor speed, which again	cy converter and PI controller in the motor terminal box. This enables continuously variable control of enables adaptation of the performance to a given requirement.			
	ptor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.			
	stor terminal box realares a real-montrin display, push-ballons and the Grundios Lye indicator.			
The push-buttons are used to	The display gives an intuitive and user-friendly interface to all functions. The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop".			
Communication with the pump settings as well as reading our consumption".	is also possible by means of Grundfos GO Remote (accessory). The remote control enables further t of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power			
<ul> <li>"Power on": Motor is ru</li> <li>"Warning": Motor is stil</li> <li>"Alarm": Motor has sto</li> <li>The terminal box has a number</li> <li>and outputs are required:</li> </ul>				
<ul> <li>three analog inputs, 0( inputs</li> </ul>				
	otentiometer and sensor			
<b>3</b> 1 7	<ul> <li>one analog output, 0-10 V, 0(4)-20 mA</li> <li>two configurable digital inputs or open collector outputs</li> </ul>			
	<ul> <li>two Pt100/Pt1000 inputs</li> <li>LiqTec, dry-running protection sensor input</li> <li>Grundfos Digital Sensor input and output</li> <li>24 V voltage supply for sensors</li> <li>two signal-relay outputs (potential-free contacts)</li> </ul>			
<ul> <li>two signal-relay output</li> <li>GENIbus connection</li> </ul>				
GENIBUS connection     interface for Grundfos	CIM fieldbus module			
Liquid:				
Pumped liquid:	Water			
Liquid temperature range:	-20 120 °C			
Selected liquid temperature: Density:	20 °C 998.2 kg/m³			
	000.2 Ng/III			
Technical:				
Pump speed on which pump of	lata are based: 3461 rpm			
Rated flow:	6.9 m³/h			
Rated head:	96.1 m			
Pump orientation:	Vertical			
Shaft seal arrangement: Code for shaft seal:	Single HQQE			
Approvals:	CURUS			
Approvals for drinking water:	NSF/ANSI 61			
Curve tolerance:	ISO9906:2012 3B			
Materials:				

ty.	Description	
	Base:	Stainless steel
	Dubb.	EN 1.4408
		AISI 316
	Impeller:	Stainless steel
		EN 1.4301
		AISI 304
	Bearing:	SIC
	beamg.	
	Installation:	
	t max amb:	40 °C
		25 bar
	Maximum operating pressure:	
	Max pressure at stated temp:	25 bar / 120 °C
		25 bar / -20 °C
	Type of connection:	FlexiClamp
	Size of inlet connection:	DN 32
	Size of outlet connection:	DN 32
	Pressure rating for connection:	PN 25
	Flange size for motor:	182TC
	Electrical data: Motor standard:	NEMA
	Motor type:	112C
	IE Efficiency class:	IE5
	Rated power - P2:	3.7 kW
	Power (P2) required by pump:	3.7 kW
	Mains frequency:	60 Hz
	Rated voltage:	3 x 200-240 V
	Service factor:	1.15
	Rated current:	13.2-10.9 A
	Cos phi - power factor:	0.94
	Rated speed:	360-4000 rpm
	Efficiency:	90.9%
	Motor efficiency at full load:	90.9 %
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No:	99301701
	Controls:	
	Frequency converter:	Built-in
	Pressure sensor:	γ
	Others:	
	Net weight:	43.8 kg
	Gross weight:	81.8 kg
	Shipping volume:	0.234 m <sup>3</sup>
		0.204 m

