

## Submittal Data

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

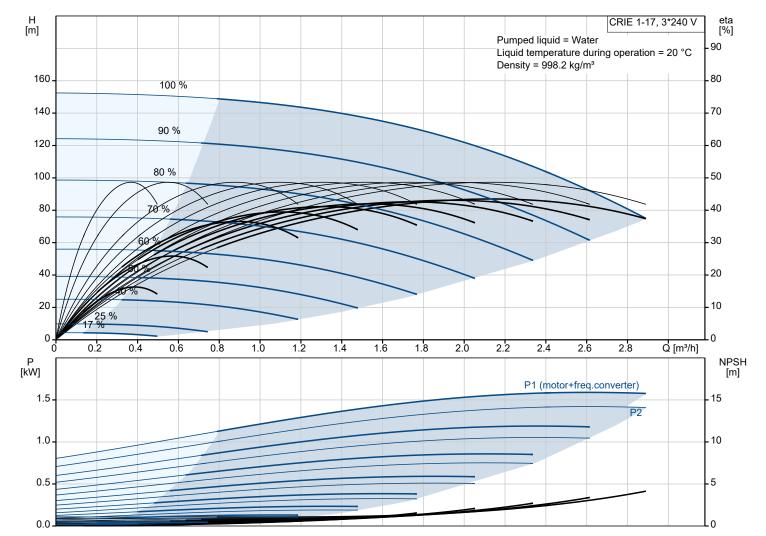


## CRIE 1-17 N-CA-A-E-HQQE

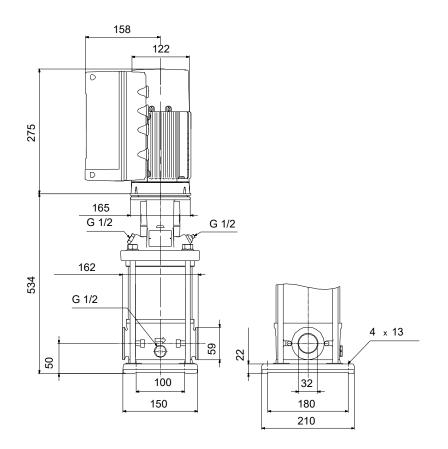
Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in stainless steel (EN 1.4301)

Note! Product picture may differ from actual product

Conditions of	of Service	Pump Data		Motor Da	ata
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 99389022	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	1.5 kW 200-240 V 60 Hz IP55 F ELEC 90C 88.9 %







Materials:	Ν	VI	а	te	ri	а	ls	:
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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

<u></u>	Description	
Qty.	Description	
1	CRIE 1-17 N-CA-A-E-HQQE	
	X	
	Product No.: 99389022	Note! Product picture may differ from actual product
	are in stainless steel. A cartridge	ump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid shaft seal ensures high reliability, safe handling, and easy access and service. Power pupling. Pipe connection is via FlexiClamps.
	The motor efficiency is classified The motor includes a frequency	e, fan-cooled, permanent-magnet, synchronous motor. I as IE5 in accordance with IEC 60034-30-2. converter and PI controller in the motor terminal box. This enables continuously variable control of
		nables adaptation of the performance to a given requirement. or terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.
	The push-buttons are used to na	d user-friendly interface to all functions. avigate through the menu structure to access pump and performance data on site and enable ell as setting of pump to "Min." or "Max." operation or to "Stop".
	Communication with the pump is settings as well as reading out o consumption".	s also possible by means of Grundfos GO Remote (accessory). The remote control enables further f a number of parameters such as "Actual value", "Speed", "Power input" and total "Power
	<ul> <li>"Power on": Motor is runr</li> <li>"Warning": Motor is still ru</li> <li>"Alarm": Motor has stopp</li> </ul>	he operating panel provides visual indication of pump status: ning (rotating green indicator lights) or not running (permanently green indicator lights) unning (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) ed (flashing red indicator lights).
	The terminal box has a number and outputs are required: • two dedicated digital inpu	of inputs and outputs enabling the motor to be used in advanced applications where many inputs
		20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these
	<ul> <li>5 V voltage supply to pote</li> <li>one analog output, 0-10 V</li> </ul>	/, 0(4)-20 mA
	two Pt100/Pt1000 inputs	puts or open-collector outputs
	<ul> <li>LiqTec, dry-running prote</li> <li>Grundfos Digital Sensor i</li> <li>24 V voltage supply for set</li> </ul>	nput and output
	<ul> <li>two signal-relay outputs (</li> <li>GENIbus connection</li> <li>interface for Grundfos CII</li> </ul>	potential-free contacts)
	Liquid:	
	Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -20 120 °C 20 °C 998.2 kg/m³
	Technical:	
	Pump speed on which pump dat Rated flow:	a are based: 3452 rpm 2.2 m³/h
	Rated head:	110.6 m Vertical
	Pump orientation: Shaft seal arrangement:	Single
	Code for shaft seal:	
	Approvals: Approvals for drinking water: Curve tolerance:	CURUS NSF/ANSI 61 ISO9906:2012 3B
	Materials:	

	Description	
	Base:	Stainless steel
	Dase.	EN 1.4408
		AISI 316
	Impeller:	Stainless steel
		EN 1.4301
		AISI 304
	Bearing:	SIC
	Installation:	
	t max amb:	40 °C
	Maximum operating pressure:	25 bar
	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:	56C
	Electrical data:	
	Motor standard:	NEMA
	Motor type:	90C
	IE Efficiency class:	IE5
	Rated power - P2:	1.5 kW
	Power (P2) required by pump:	1.5 kW
	Mains frequency:	60 Hz
	Rated voltage:	3 x 200-240 V
	Service factor:	1.00
- I	Rated current:	5.40-4.60 A
	Cos phi - power factor:	0.92
	Rated speed:	360-4000 rpm
	Efficiency:	88.9%
	Enciency.	88.9 %
	Motor efficiency at full load:	
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No:	99301706
	Controls:	
	Frequency converter:	Built-in
	Pressure sensor:	Y
	Others:	
	Net weight:	31.7 kg
	Gross weight:	69.7 kg
	Shipping volume:	0.234 m <sup>3</sup>