

Submittal Data

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

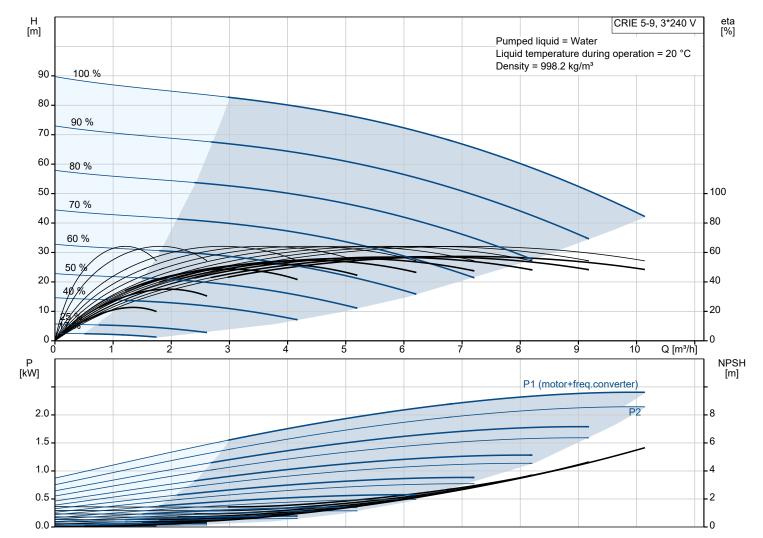


CRIE 5-9 N-CA-A-E-HQQE

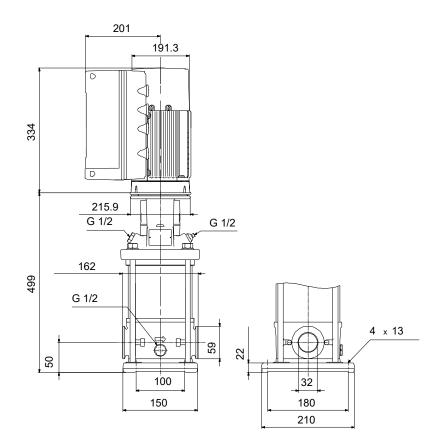
Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in stainless steel (EN 1.4301)

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 99389094	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	2.2 kW 200-240 V 60 Hz IP55 F ELEC 100A 88.7 %





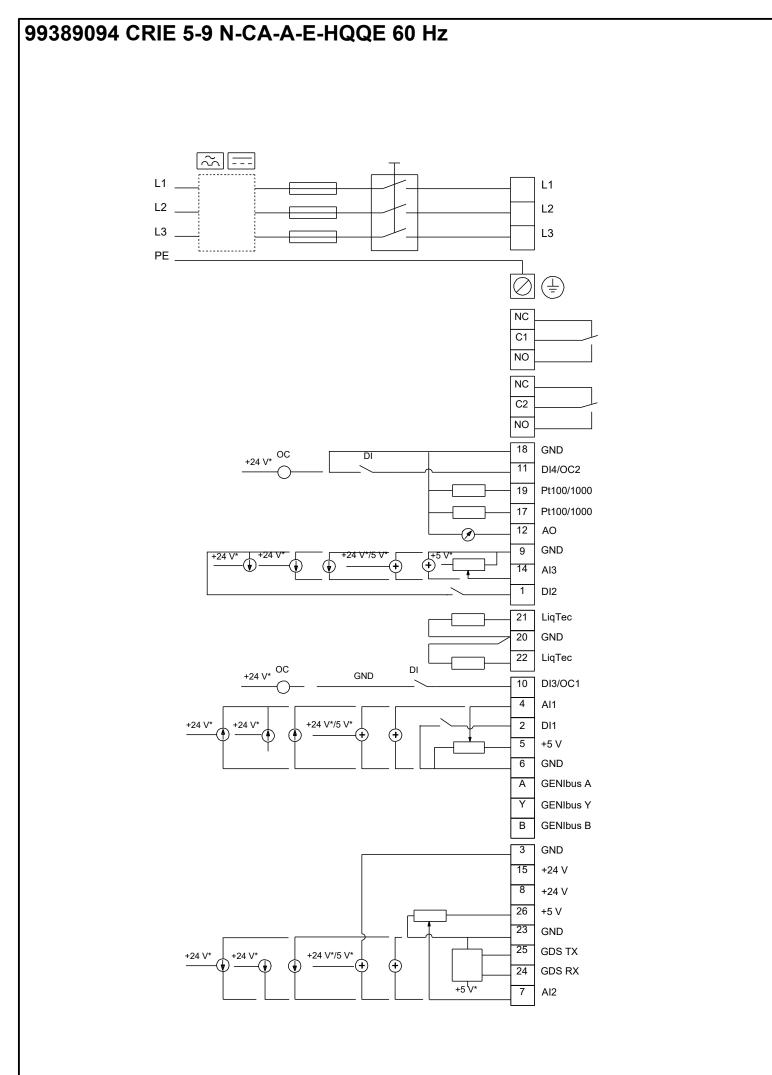


Materials:	Ν	VI	а	te	ri	а	ls	:
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Base:	Stainless steel
Base:	EN 1.4408
Base:	AISI 316
Impeller:	Stainless steel
Impeller:	AISI 304
Impeller:	EN 1.4301
Material code:	А
Code for rubber:	E

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Qty.	Description	
1	CRIE 5-9 N-CA-A-E-HQQE	
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	AND N	
		Note! Product picture may differ from actual product
	Product No.: 99389094	
	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.
		e, fan-cooled, permanent-magnet, synchronous motor.
		as IE5 in accordance with IEC 60034-30-2. converter and PI controller in the motor terminal box. This enables continuously variable control of
	the motor speed, which again en	ables adaptation of the performance to a given requirement.
	The operating panel on the moto	r terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.
	The display gives an intuitive and	d user-friendly interface to all functions.
	The push-buttons are used to na	ivigate through the menu structure to access pump and performance data on site and enable
	setting of required setpoint as we	ell as setting of pump to "Min." or "Max." operation or to "Stop".
	Communication with the pump is settings as well as reading out or consumption".	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
	The Grundfos Eve indicator on th	ne operating panel provides visual indication of pump status:
		ing (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). of inputs and outputs enabling the motor to be used in advanced applications where many inputs
	and outputs are required:	
	 two dedicated digital input three analog inputs 0(4). 	ts 20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these
	inputs	
	5 V voltage supply to pote	
	 one analog output, 0-10 \ two configurable digital in 	/, 0(4)-20 mA puts or open-collector outputs
	 two Pt100/Pt1000 inputs 	
	LiqTec, dry-running prote	
	 Grundfos Digital Sensor i 24 V voltage supply for set 	
	 two signal-relay outputs (
	 GENIbus connection interface for Grundfos CII 	M fieldbue modulo
	Interface for Grundtos CII	
	Liquid:	
	Pumped liquid: Liquid temperature range:	Water -20 120 °C
	Selected liquid temperature:	-20 °C
	Density:	998.2 kg/m³
	Technical:	
	Pump speed on which pump dat	a are based: 3461 rpm
	Rated flow:	6.9 m³/h
	Rated head: Pump orientation:	67.9 m Vertical
	Shaft seal arrangement:	Single
	Code for shaft seal:	HQQE
	Approvals: Approvals for drinking water:	CURUS NSF/ANSI 61
	Curve tolerance:	ISO9906:2012 3B
	Matariala	
	Materials:	

Description		
Base:	Stainless steel	
	EN 1.4408	
	AISI 316	
Impeller:	Stainless steel	
	EN 1.4301	
	AISI 304	
Bearing:	SIC	
Installation:		
t max amb:	40 °C	
Maximum operating pre		
Max pressure at stated		
	25 bar / -20 °C	
Type of connection:	FlexiClamp	
Size of inlet connection:	DN 32	
Size of outlet connection	n: DN 32	
Pressure rating for conn	ection: PN 25	
Flange size for motor:	182TC	
5		
Electrical data:		
Motor standard:	NEMA	
Motor type:	100A	
IE Efficiency class:	IE5	
Rated power - P2:	2.2 kW	
Power (P2) required by		
Mains frequency:	60 Hz	
Rated voltage:	3 x 200-240 V	
Service factor:	1.15	
Rated current:	7.90-6.60 A	
Cos phi - power factor:	0.94	
Rated speed:	360-4000 rpm	
Efficiency:	88.7%	
Motor efficiency at full lo		
Enclosure class (IEC 34	-5): IP55	
Insulation class (IEC 85): F	
Motor No:	99302693	
Controls:		
Frequency converter:	Built-in	
Pressure sensor:	Y	
Others:		
Net weight:	38.3 kg	
Gross weight:	76.3 kg	
Shipping volume:	0.234 m³	



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