

Submittal Data

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

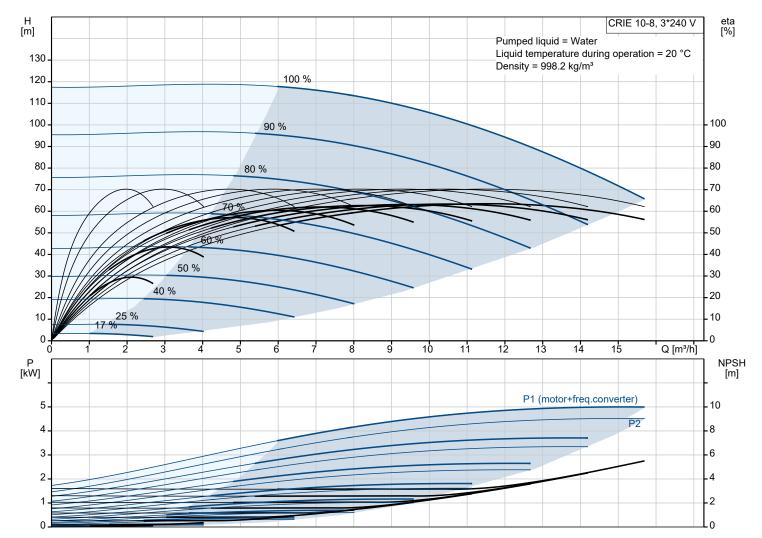


CRIE 10-8 N-CA-A-E-HQQE

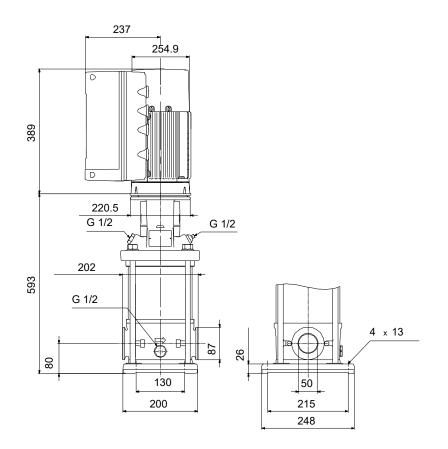
Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in stainless steel (EN 1.4301)

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:	16 bar / 120 °C -20 120 °C 40 °C HQQE 99392024	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	5.5 kW 200-240 V 60 Hz IP55 F ELEC 132F 90.2 %







Materials:

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

Description	
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CRIE 10-8 N-CA-A-E-HQQE	
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Product No.: 99392024	Note! Product picture may differ from actual product
are in stainless steel. A cartridge	mp 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 upling. Pipe connection is via FlexiClamps.
The motor efficiency is classified a The motor includes a frequency c	, fan-cooled, permanent-magnet, synchronous motor. as IE5 in accordance with IEC 60034-30-2. onverter and PI controller in the motor terminal box. This enables continuously variable control of ables adaptation of the performance to a given requirement.
	terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.
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 setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop".	
Communication with the pump is settings as well as reading out of consumption".	also possible by means of Grundfos GO Remote (accessory). The remote control enables further a number of parameters such as "Actual value", "Speed", "Power input" and total "Power
 "Power on": Motor is runnin "Warning": Motor is still run	e operating panel provides visual indication of pump status: ng (rotating green indicator lights) or not running (permanently green indicator lights) nning (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) d (flashing red indicator lights).
The terminal box has a number of and outputs are required:	f inputs and outputs enabling the motor to be used in advanced applications where many inputs
 two dedicated digital inputs three analog inputs, 0(4)-2 inputs 	s 20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these
 5 V voltage supply to poter one analog output, 0-10 V, 	
two configurable digital inptwo Pt100/Pt1000 inputs	outs or open-collector outputs
LiqTec, dry-running protecGrundfos Digital Sensor in	put and output
 24 V voltage supply for ser two signal-relay outputs (p	
GENIbus connectioninterface for Grundfos CIM	l fieldbus module.
Liquid:	
	Water
Liquid tomporature repair	
	-20 120 °C 20 °C
Selected liquid temperature:	-20 120 °C 20 °C 998.2 kg/m ³
Selected liquid temperature: Density: Technical:	20 °C 998.2 kg/m³
Selected liquid temperature: Density: Technical: Pump speed on which pump data	20 °C 998.2 kg/m³ are based: 3467 rpm
Selected liquid temperature: Density: Technical: Pump speed on which pump data Rated flow:	20 °C 998.2 kg/m ³ are based: 3467 rpm 12.1 m ³ /h
Selected liquid temperature: Density: Technical: Pump speed on which pump data Rated flow: Rated head:	20 °C 998.2 kg/m³ are based: 3467 rpm
Selected liquid temperature: Density: Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter:	20 °C 998.2 kg/m ³ are based: 3467 rpm 12.1 m ³ /h 93.2 m
Selected liquid temperature: Density: Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Pump orientation: Shaft seal arrangement:	20 °C 998.2 kg/m ³ are based: 3467 rpm 12.1 m ³ /h 93.2 m 92.96 mm Vertical Single
Selected liquid temperature: Density: Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Pump orientation: Shaft seal arrangement: Code for shaft seal:	20 °C 998.2 kg/m ³ are based: 3467 rpm 12.1 m ³ /h 93.2 m 92.96 mm Vertical Single HQQE
Selected liquid temperature: Density: Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals:	20 °C 998.2 kg/m ³ are based: 3467 rpm 12.1 m ³ /h 93.2 m 92.96 mm Vertical Single

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	Materials:	
	Base:	Stainless steel
		EN 1.4408
		AISI 316
1	Impeller:	Stainless steel
		EN 1.4301
1		AISI 304
	Bearing:	SIC
1		
	Installation:	
1	t max amb:	40 °C
	Maximum operating pressure:	16 bar
	Max pressure at stated temp:	16 bar / 120 °C
	inar pressure at stated temp.	16 bar / -20 °C
	Type of connection:	FlexiClamp
	Size of inlet connection:	DN 50
	Size of outlet connection:	DN 50
	Pressure rating for connection:	
	Flange size for motor:	213TC
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1	Electrical data:	
	Motor standard:	NEMA
	Motor type:	132F
	IE Efficiency class:	IE5
	Rated power - P2:	5.5 kW
	Power (P2) required by pump:	5.5 kW
	Mains frequency:	60 Hz
1	Rated voltage:	3 x 200-240 V
	Service factor:	1.15
	Rated current:	20.0-16.6 A
	Cos phi - power factor:	0.94
	Rated speed:	360-4000 rpm
	Efficiency:	90.2%
	Motor efficiency at full load:	90.2 %
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No:	99301703
	Controls:	
		Duilt in
	Frequency converter:	Built-in
	Pressure sensor:	Y
	Others:	
	DOE Pump Energy Index VL:	0.41
	Net weight:	82 kg
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1	Gross weight:	121 kg
	Shipping volume:	0.37 m³
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