

Submittal Data

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

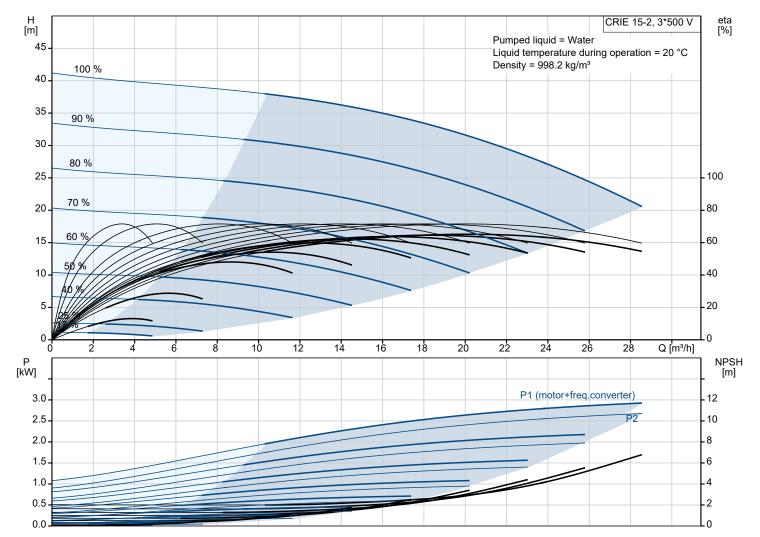


CRIE 15-2 N-CA-A-E-HQQE

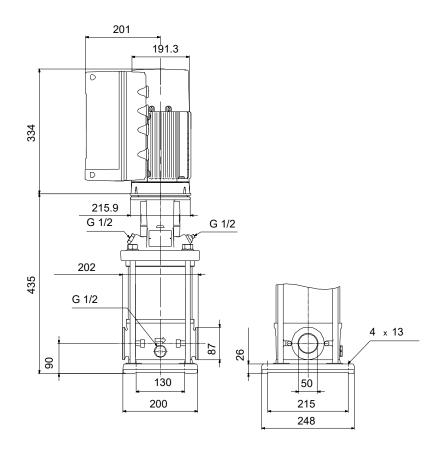
Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in stainless steel (EN 1.4301)

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 50 °C HQQE 99076236	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	3.7 kW 440-480 V 60 Hz IP55 F ELEC 112C 92.5 %





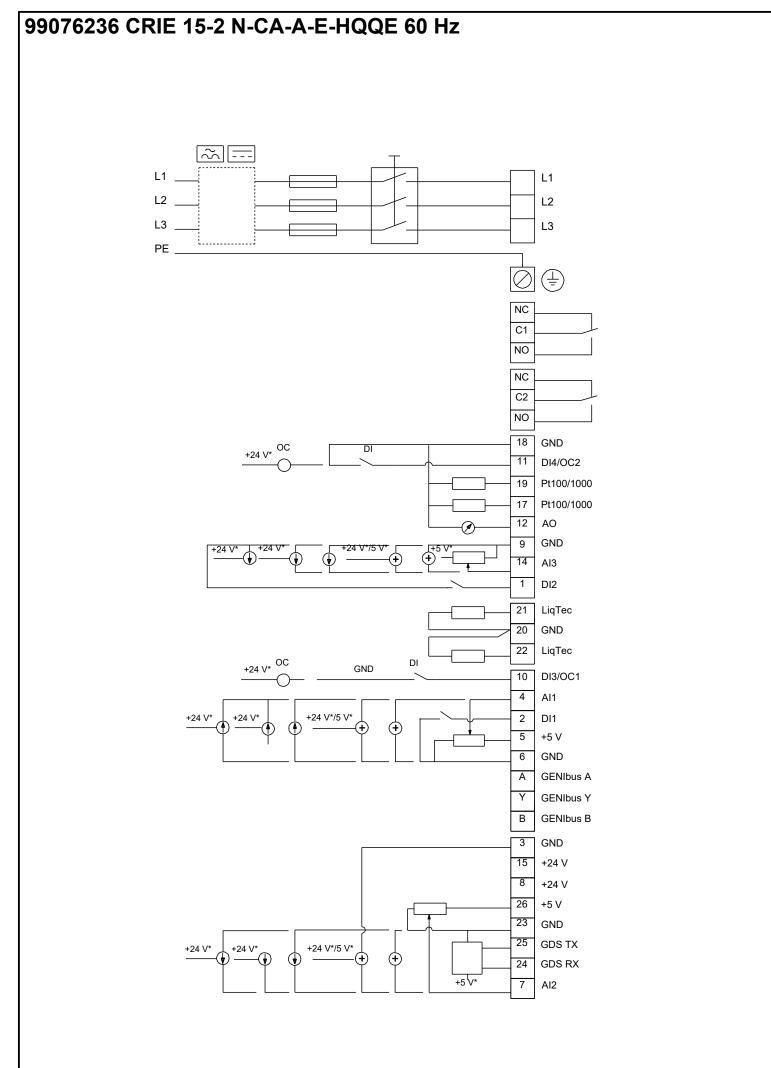


Materials:	Ν	VI	а	te	ri	а	ls	:
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Base:	Stainless steel
Base:	EN 1.4408
Base:	AISI 316
Impeller:	Stainless steel
Impeller:	AISI 304
Impeller:	EN 1.4301
Material code:	А
Code for rubber:	E

Otv	Description						
Qty.	Description						
1	CRIE 15-2 N-CA-A-E-HQQE						
		Note! Product picture may differ from actual product					
	Product No.: 99076236						
	are in stainless steel. A cartridge	'ertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid re in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power ansmission is via a rigid split coupling. Pipe connection is via FlexiClamps.					
	The pump is fitted with a 3-phase, fan-cooled, permanent-magnet, synchronous motor. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2. The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable cont the meter analysis and the performance to a given requirement.						
	the motor speed, which again enables adaptation of the performance to a given requirement. The operating panel on the motor 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 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 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 runn "Warning": Motor is still ru 	ne operating panel provides visual indication of pump status: ing (rotating green indicator lights) or not running (permanently green indicator lights) inning (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					
	 two dedicated digital input three analog inputs, 0(4)-, inputs 	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					
 5 V voltage supply to potentiometer and sensor one analog output, 0-10 V, 0(4)-20 mA 							
	 two configurable digital in two Pt100/Pt1000 inputs 	puts or open-collector outputs					
	LiqTec, dry-running proteGrundfos Digital Sensor in						
	 24 V voltage supply for se two signal-relay outputs (ensors					
	 GENIbus connection interface for Grundfos CIN 						
	Liquid:						
	Pumped liquid:	Water					
	Liquid temperature range:	-20 120 °C					
	Selected liquid temperature: Density:	20 °C 998.2 kg/m³					
	Technical:						
	Pump speed on which pump data Rated flow:	a are based: 3461 rpm 20.5 m³/h					
	Rated head:	31.6 m					
	Actual impeller diameter:	104.9 mm					
	Pump orientation:	Vertical					
	Shaft seal arrangement:						
	Code for shaft seal: Approvals:	HQQE CURUS					
	Approvals for drinking water:	NSF/ANSI 61					
	Curve tolerance:	ISO9906:2012 3B					

Qty.	Description	
	Materials:	
	Base:	Stainless steel
		EN 1.4408
		AISI 316
	Impeller:	Stainless steel
		EN 1.4301
		AISI 304
	Bearing:	SIC
	Installation:	
	t max amb:	50 °C
	Maximum operating pressure:	16 bar
	Max pressure at stated temp:	16 bar / 120 °C
		16 bar / -20 °C
	Type of connection:	FlexiClamp
	Size of inlet connection:	DN 50
	Size of outlet connection:	DN 50
	Pressure rating for connection:	PN 25
	Flange size for motor:	182TC
	Electrical data:	
	Motor standard:	NEMA
	Motor type:	NEMA 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 440-480 V
	Service factor:	1.15
	Rated current:	6.20-5.80 A
	Cos phi - power factor:	0.90-0.88
	Rated speed:	360-4000 rpm
	Efficiency:	92.5%
	Motor efficiency at full load:	92.5 %
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No:	99256771
	Controls:	
	Frequency converter:	Built-in
	Pressure sensor:	Y
	Others:	
	DOE Pump Energy Index VL:	0.40
	Net weight:	63 kg
	Gross weight:	71 kg
	Shipping volume:	0.234 m ³
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Note! All units are in [mm] unless others are stated.