

## Submittal Data

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

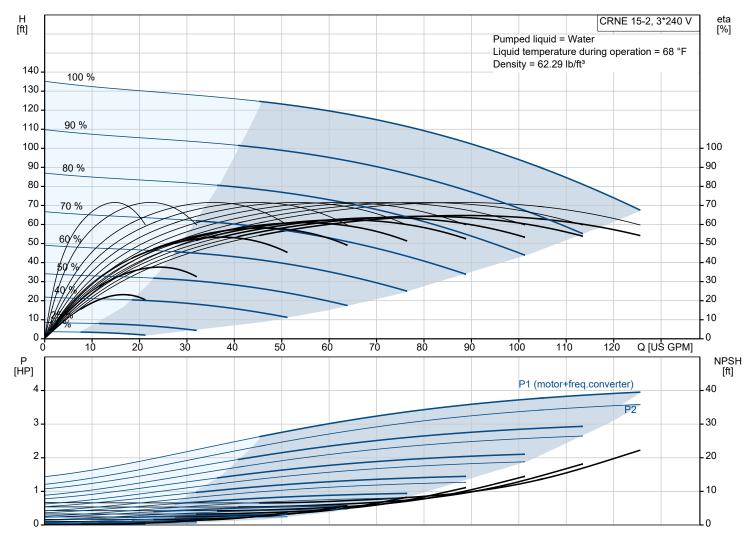


## CRNE 15-2 N-P-A-E-HQQE

Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in high-grade stainless steel (EN 1.4401)

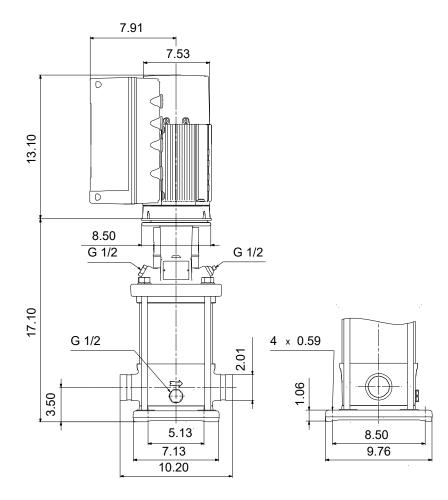
Note! Product picture may differ from actual product

Conditions of Service Pump Data			Motor Data		
Liquid: Temperature: Specific Gravity:	Water 68 °F 1.000	Max pressure at stated temp: Liquid temperature range: Maximum ambient temperature: Shaft seal: Product number:	363 psi / 250 °F -4 248 °F 104 °F HQQE 99392146	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	5 HP 200-240 V 60 Hz IP55 F ELEC 112C 90.9 %



## Submittal Data

## **GRUNDFOS**



Ма	tei	rial	s:
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Base:	Stainless steel
Base:	EN 1.4408
Base:	AISI 316
Impeller:	Stainless steel
Impeller:	AISI 316
Impeller:	EN 1.4401
Material code:	Α
Code for rubber:	E

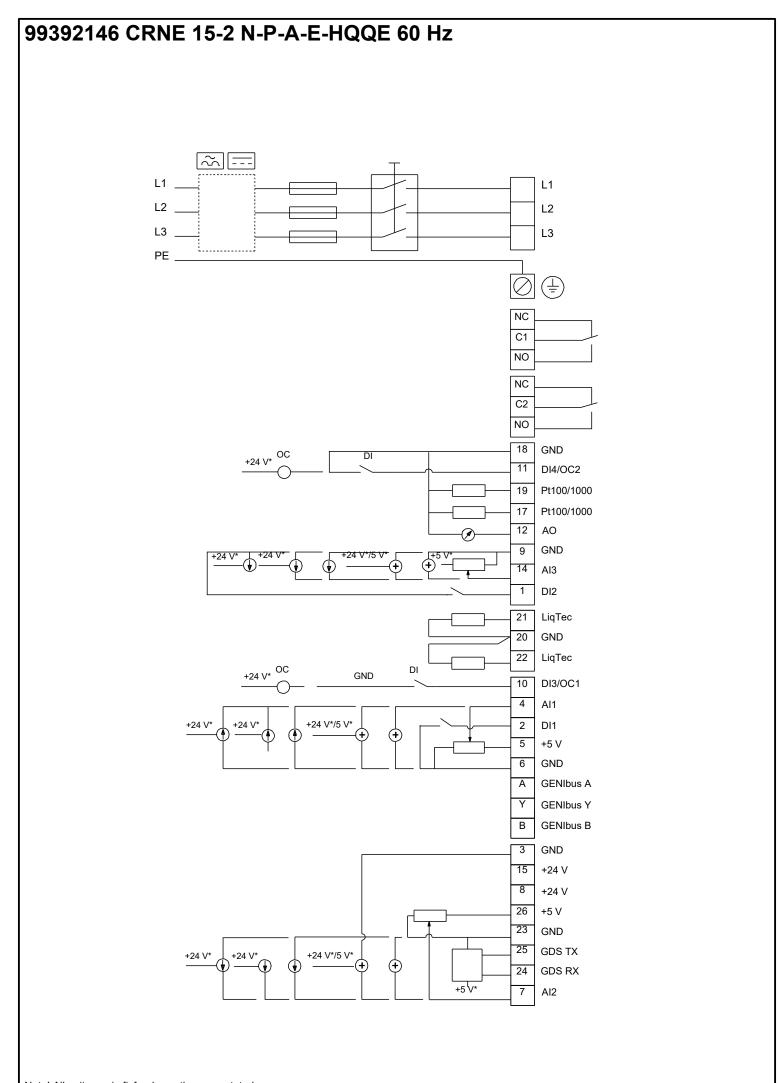
Qty.	Description	
1	CRNE 15-2 N-P-A-E-HQQE	
Product No.: 99392146		
	Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the are in high-grade stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. transmission is via a rigid split coupling. Pipe connection is via PJE (Victaulic®) couplings.	
	The motor efficiency is classifie	se, fan-cooled, permanent-magnet, synchronous motor. d as IE5 in accordance with IEC 60034-30-2.
	the motor speed, which again e	/ converter and PI controller in the motor terminal box. This enables continuously variable control of enables adaptation of the performance to a given requirement. for terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.
	The display gives an intuitive a	nd user-friendly interface to all functions.
	The push-buttons are used to n setting of required setpoint as v	avigate through the menu structure to access pump and performance data on site and enable vell as setting of pump to "Min." or "Max." operation or to "Stop".
	Communication with the pump settings as well as reading out consumption".	is also possible by means of Grundfos GO Remote (accessory). The remote control enables further of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power
	<ul> <li>"Power on": Motor is run</li> <li>"Warning": Motor is still</li> <li>"Alarm": Motor has stop</li> </ul>	the operating panel provides visual indication of pump status: ning (rotating green indicator lights) or not running (permanently green indicator lights) running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) ped (flashing red indicator lights). r of inputs and outputs enabling the motor to be used in advanced applications where many inputs
	<ul> <li>and outputs are required:</li> <li>two dedicated digital inp</li> </ul>	
		)-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 potentiometer and sensor</li> <li>one analog output, 0-10 V, 0(4)-20 mA</li> </ul>	
	<ul> <li>two configurable digital i</li> <li>two Pt100/Pt1000 inputs</li> <li>LiqTec, dry-running prot</li> </ul>	
	<ul> <li>Grundfos Digital Sensor</li> <li>24 V voltage supply for s</li> <li>two signal-relay outputs</li> </ul>	sensors
	<ul> <li>GENIbus connection</li> <li>interface for Grundfos C</li> </ul>	
	Liquid:	
	Pumped liquid:	Water
	Liquid temperature range:	-4 248 °F
	Selected liquid temperature: Density:	68 °F 62.29 lb/ft³
	Technical:	
	Pump speed on which pump da	
	Rated flow:	90.3 US GPM
	Rated head:	103.7 ft
	Actual impeller diameter:	4.13 in
	Pump orientation:	Vertical
	Shaft seal arrangement:	Single
	Code for shaft seal:	HQQE
	Approvals:	CURUS
	Approvals for drinking water: Curve tolerance:	NSF/ANSI 61 ISO9906:2012 3B
	Materials:	
	Base:	Stainless steel
		EN 1.4408
		AISI 316
	Impeller:	Stainless steel
	'	EN 1.4401
		AISI 316
	Bearing:	SIC
	Installation:	
	t max amb:	104 °E

t max amb:

104 °F

362.59 psi

Description	
Max pressure at stated temp:	363 psi / 250 °F
	363 psi / -4 °F
Type of connection:	PJE
Size of inlet connection:	DN 50
Size of outlet connection:	DN 50
Pressure rating for connection:	PN 50
Flange size for motor:	182TC
Electrical data:	
Motor standard:	NEMA
Motor type:	112C
IE Efficiency class:	IE5
Rated power - P2:	5 HP
Power (P2) required by pump:	5 HP
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:	Y
Others:	
DOE Pump Energy Index VL:	0.42
Net weight:	123 lb
Gross weight:	209 lb
Shipping volume:	8.26 ft <sup>3</sup>



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