

## Submittal Data

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

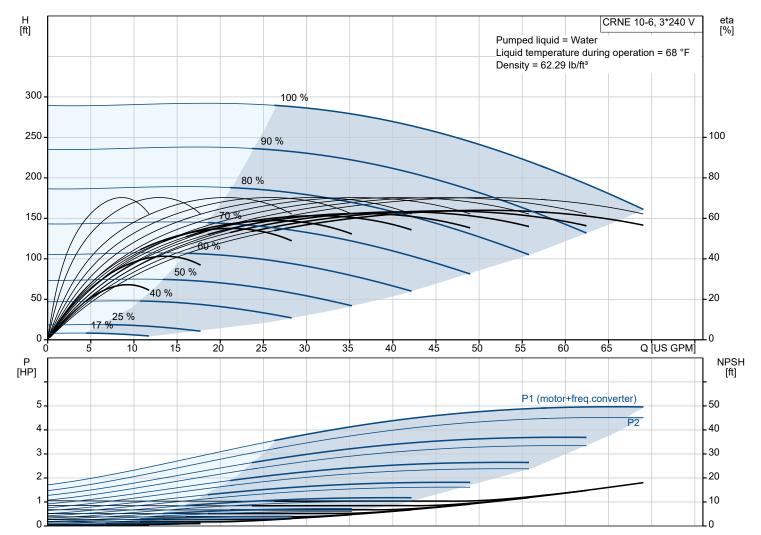


CRNE 10-6 N-P-A-E-HQQE

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

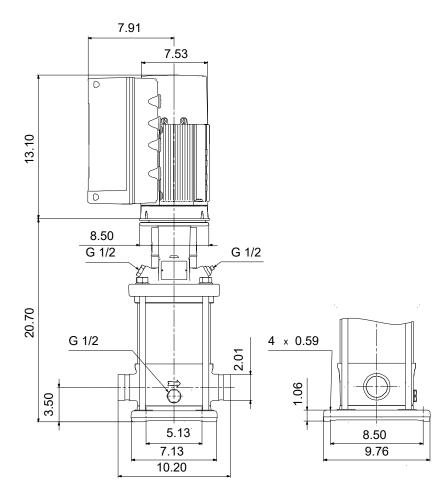
Note! Product picture may differ from actual product

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 99392050	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





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

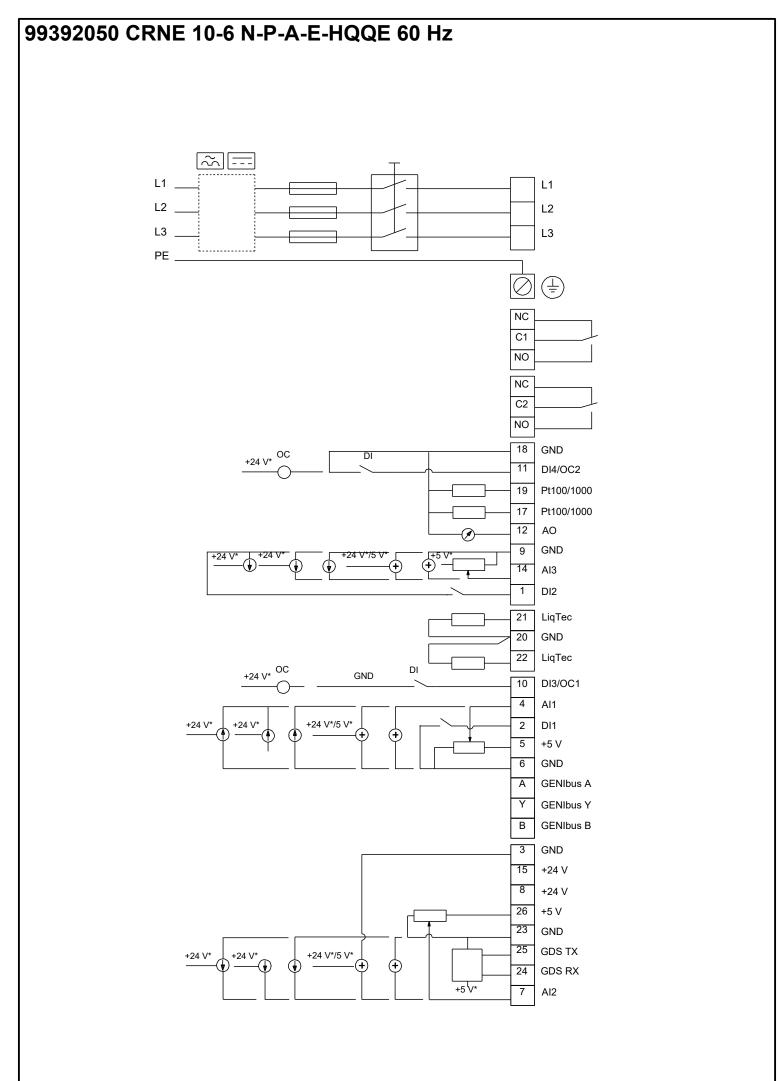
Qty.	Description	
1	CRNE 10-6 N-P-A-E-HQQE	
1	Product No.: 99392050	
	Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the are in high-grade stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. transmission is via a rigid split coupling. Pipe connection is via PJE (Victaulic®) couplings.	
	The motor efficiency is classified The motor includes a frequency the motor speed, which again e	se, fan-cooled, permanent-magnet, synchronous motor. ed as IE5 in accordance with IEC 60034-30-2. y converter and PI controller in the motor terminal box. This enables continuously variable control of enables adaptation of the performance to a given requirement. tor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.
	The display gives an intuitive a The push-buttons are used to r	nd user-friendly interface to all functions. navigate through the menu structure to access pump and performance data on site and enable well 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 rur</li> <li>"Warning": Motor is still</li> <li>"Alarm": Motor has stop</li> </ul>	the operating panel provides visual indication of pump status: nning (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).
	<ul> <li>The terminal box has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:</li> <li>two dedicated digital inputs</li> <li>three analog inputs, 0(4)-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</li> <li>5 V voltage supply to potentiometer and sensor</li> </ul>	
	<ul> <li>two Pt100/Pt1000 inputs</li> <li>LiqTec, dry-running prot</li> </ul>	inputs or open-collector outputs s tection sensor input
	GENIbus connection	sensors (potential-free contacts)
	interface for Grundfos C	IM fieldbus module.
	Liquid:	
	Pumped liquid:	Water
	Liquid temperature range:	-4 248 °F
	Selected liquid temperature:	68 °F
	Density:	62.29 lb/ft <sup>3</sup>
	Technical:	
	Pump speed on which pump da	ata are based: 3461 rpm
	Rated flow:	53.3 US GPM
	Rated head:	227 ft
	Actual impeller diameter:	3.66 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
	Impollor	AISI 316 Stainloss steel
	Impeller:	Stainless steel
		EN 1.4401
	Bearing:	AISI 316 SIC
	Installation:	
	t max amb.	104 °F

104 °F

362.59 psi

t max amb:

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:	0.41
Net weight:	130 lb
Gross weight:	216 lb
Shipping volume:	8.26 ft <sup>3</sup>



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