

## Submittal Data

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

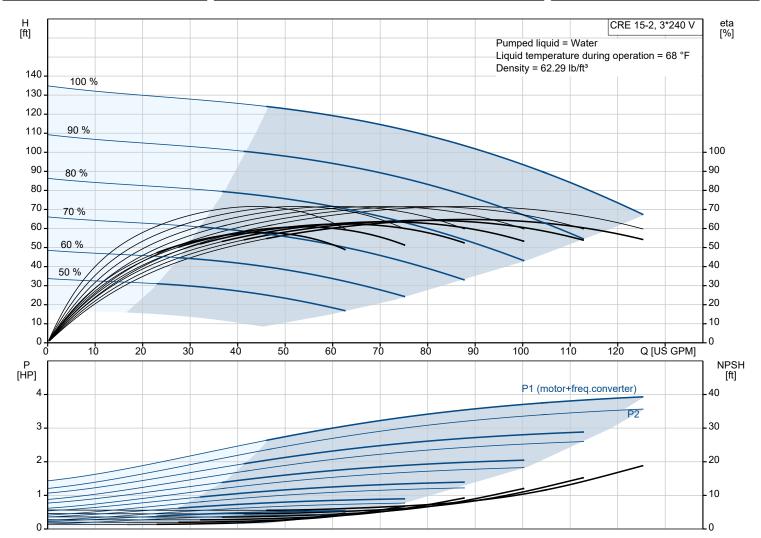


CRE 15-2 N-B-A-E-HQQE

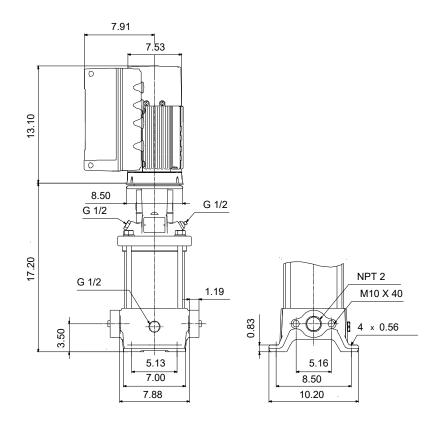
Vertical, multistage centrifugal pump with integrated frequency converter. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

Note! Product picture may differ from actual product

Conditions of Service		Pump Data		Motor Data	
Liquid: Temperature: Specific Gravity:	Water 68 °F 1.000	Max pressure at stated temp: Liquid temperature range: Maximum ambient temperature: Shaft seal: Product number:	145 psi / 250 °F -4 248 °F 104 °F HQQE 99392118	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 %







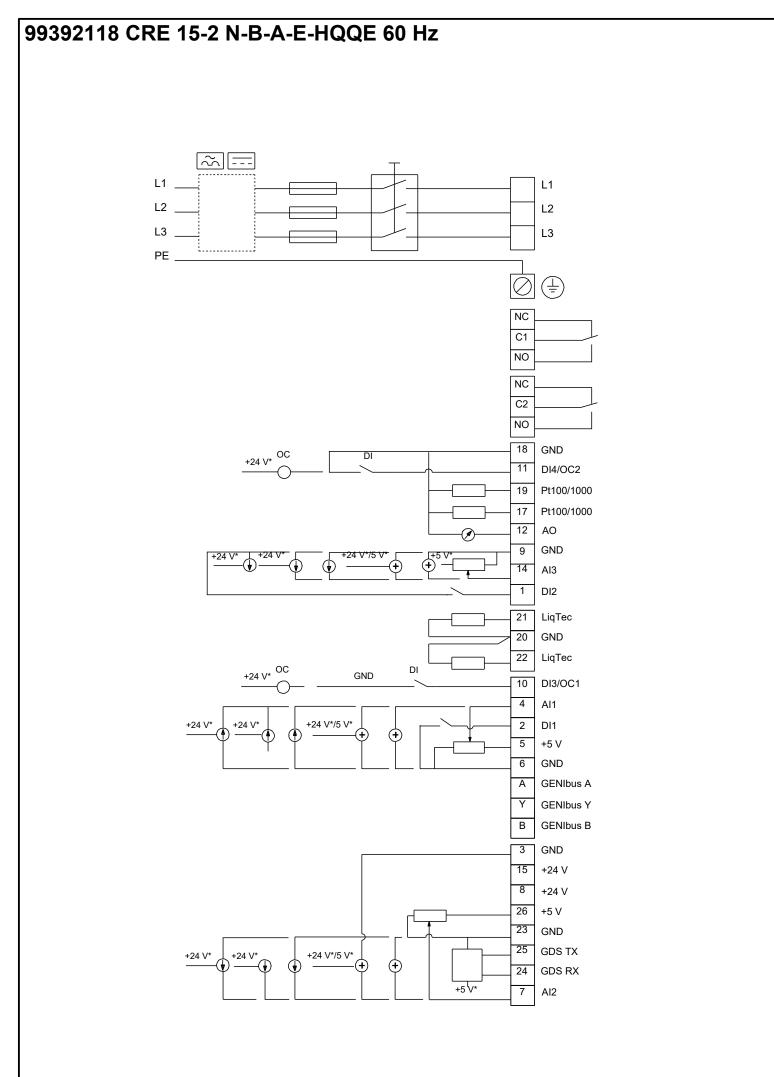
Materials:

Base:	Cast iron
Base:	EN 1561 EN-GJL-200
Base:	ASTM A48-25B
Impeller:	Stainless steel
Impeller:	AISI 304
Impeller:	EN 1.4301
Material code:	А
Code for rubber:	E

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Qty.	Description		
1	CRE 15-2 N-B-A-E-HQQE		
		Note! Product picture may differ from actual product	
	Product No.: 99392118		
	Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iror – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via oval flanges with internal NPT threads. 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 control of 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 The push-buttons are used to na	d user-friendly interface to all functions. vigate through the menu structure to access pump and performance data on site and enable 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	
	<ul> <li>"Power on": Motor is runn</li> <li>"Warning": Motor is still ru</li> <li>"Alarm": Motor has stopped</li> </ul>	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	
	two dedicated digital input	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	
	<ul> <li>5 V voltage supply to potentiometer and sensor</li> <li>one analog output, 0-10 V, 0(4)-20 mA</li> </ul>		
	two configurable digital in     two Pt100/Pt1000 inputs     LiqTec, dry-running prote	puts or open-collector outputs ction sensor input	
	<ul> <li>Grundfos Digital Sensor input and output</li> <li>24 V voltage supply for sensors</li> <li>two signal-relay outputs (potential-free contacts)</li> </ul>		
	GENIbus connection     interface for Grundfos CII		
	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 dat		
	Rated flow: Rated head:	90.3 US GPM 103.7 ft	
		103.7 π 4.13 in	
	Actual impeller diameter: Pump orientation:	4.13 In Vertical	
	Shaft seal arrangement:	Single	
	Code for shaft seal:	HQQE	
	Approvals:	CURUS	
	Approvals for drinking water:	NSF/ANSI 61	
	Curve tolerance:	ISO9906:2012 3B	

Qty.	Description	
<u> </u>	-	
	Materials:	Cast iron
	Base:	
		EN 1561 EN-GJL-200
		ASTM A48-25B
	Impeller:	Stainless steel
		EN 1.4301
		AISI 304
	Bearing:	SIC
	Installation:	
	t max amb:	104 °F
	Maximum operating pressure:	145.04 psi
	Max pressure at stated temp:	145 psi / 250 °F
		145 psi / -4 °F
	Type of connection:	Oval / NPT(F)
	Size of inlet connection:	2 inch
	Size of outlet connection:	
		2 inch
	Pressure rating for connection:	
	Flange size for motor:	182TC
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	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
		0.94
	Cos phi - power factor:	
	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:	
		Duilt in
	Frequency converter:	Built-in
	Pressure sensor:	Y
	Othermal	
	Others:	a. (a
	DOE Pump Energy Index VL:	0.42
	Net weight:	139 lb
	Gross weight:	225 lb
	Shipping volume:	8.26 ft <sup>3</sup>
1		
1		
1		
1		
1		



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