

## Submittal Data

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

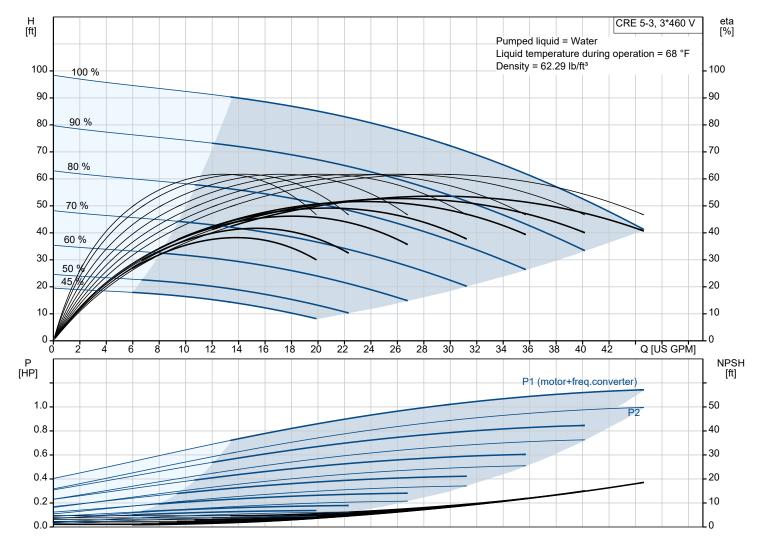


CRE 5-3 N-B-A-E-HQQE

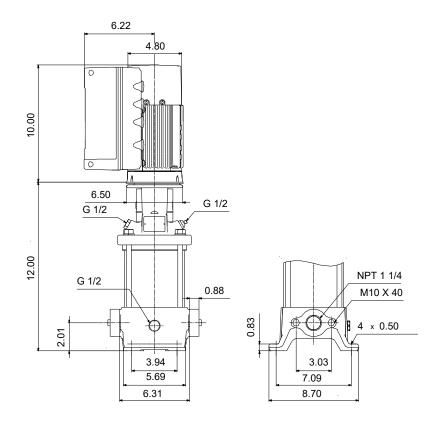
Vertical, multistage centrifugal pump with integrated frequency converter. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

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:	232 psi / 250 °F -4 248 °F 122 °F HQQE 99340883	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	1 HP 440-480 V 60 Hz IP55 F ELEC 80A 86.4 %







Materials:

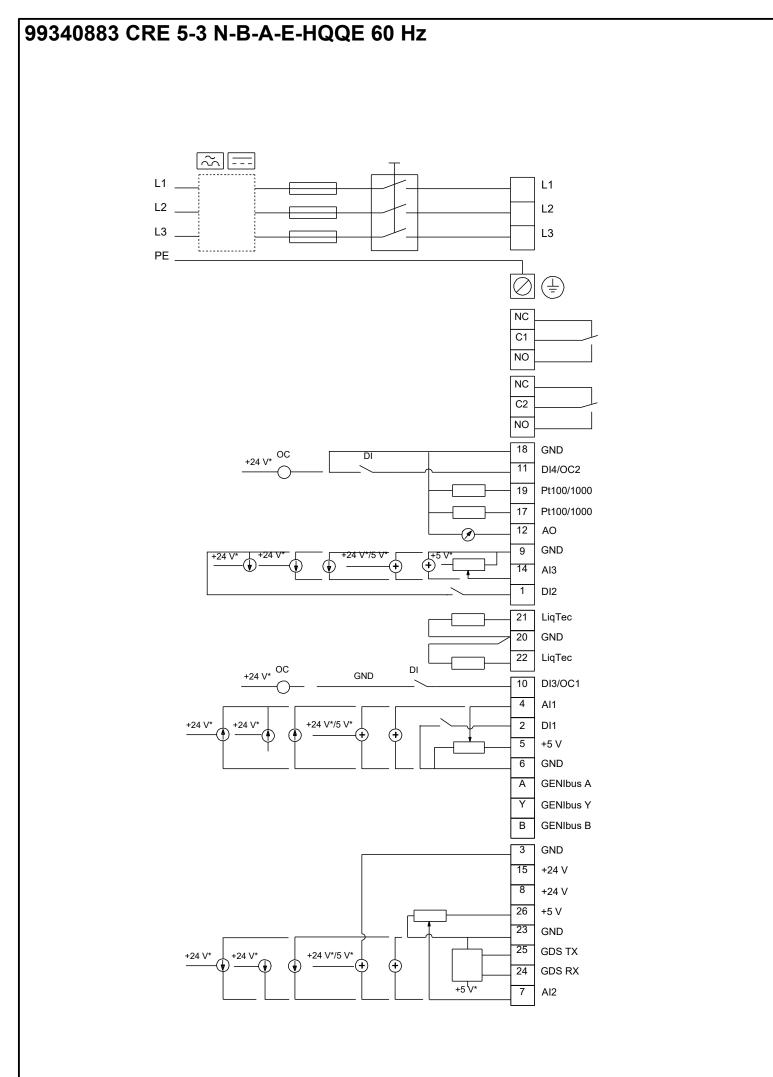
Base:	Cast iron
Base:	EN 1561 EN-GJL-200
Base:	ASTM A48-25B
Impeller:	Stainless steel
Impeller:	AISI 304
Impeller:	EN 1.4301
Material code:	А
Code for rubber:	E

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Description		
CRE 5-3 N-B-A-E-HQQE		
	Note! Product picture may differ from actual product	
Product No.: 99340883		
Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and b – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and en- service. Power transmission is via a rigid split coupling. Pipe connection is via oval flanges with internal NPT thr		
The motor efficiency is classified The motor includes a frequency the motor speed, which again e	e, fan-cooled, permanent-magnet, synchronous motor. d as IE5 in accordance with IEC 60034-30-2. converter and PI controller in the motor terminal box. This enables continuously variable control nables adaptation of the performance to a given requirement. or 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 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 also possible by means of Grundfos GO Remote (accessory). The remote control enables fu settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".		
<ul><li> "Power on": Motor is run</li><li> "Warning": Motor is still r</li></ul>	the operating panel provides visual indication of pump status: ning (rotating green indicator lights) or not running (permanently green indicator lights) unning (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)	
The terminal box has a number and outputs are required:	bed (flashing red indicator lights). of inputs and outputs enabling the motor to be used in advanced applications where many inputs	
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Materials:

•	Description	
	Base:	Cast iron
		EN 1561 EN-GJL-200
		ASTM A48-25B
	Impeller:	Stainless steel
	•	EN 1.4301
		AISI 304
	Bearing:	SIC
	2 c ag.	
	Installation:	
	t max amb:	122 °F
	Maximum operating pressure:	232.06 psi
	Max pressure at stated temp:	232 psi / 250 °F
		232 psi / -4 °F
	Type of connection:	Oval / NPT(F)
	Size of inlet connection:	1 1/4 inch
	Size of outlet connection:	1 1/4 inch
	Pressure rating for connection:	PN 16
	Flange size for motor:	56C
	Electrical data:	
	Motor standard:	NEMA
	Motor type:	80A
	IE Efficiency class:	IE5
	Rated power - P2:	1 HP
	Power (P2) required by pump:	1 HP
	Mains frequency:	60 Hz
	Rated voltage:	3 x 440-480 V
	Service factor:	1.25
	Rated current:	1.65 A
	Cos phi - power factor:	0.73
	Rated speed:	360-4000 rpm
	Efficiency:	86.4%
	Motor efficiency at full load:	86.4 %
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No:	99256782
	Controls:	
	Frequency converter:	Built-in
	Pressure sensor:	Y
	0.1	
	Others:	57.2 lb
	Net weight:	
	Gross weight:	68.2 lb
	Shipping volume:	4.94 ft <sup>3</sup>
- 1		



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