

Submittal Data

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

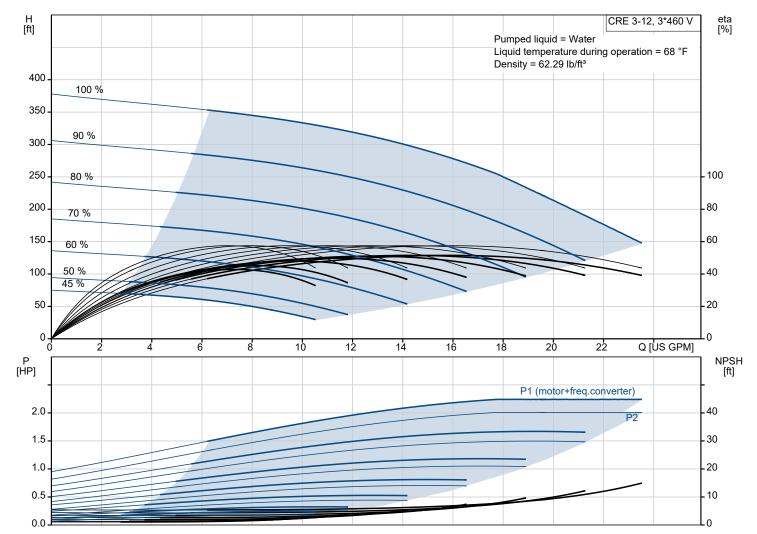


CRE 3-12 N-B-A-E-HQQE

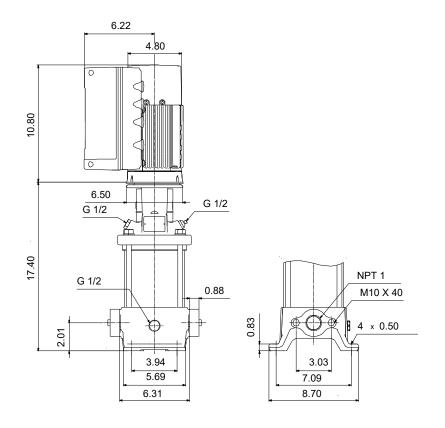
Vertical, multistage centrifugal pump with integrated frequency converter. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

Note! Product picture may differ from actual product

Conditions of	of Service Pump Data Motor		Pump Data		ata
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 99340820	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	2 HP 440-480 V 60 Hz IP55 F ELEC 90C 89.4 %





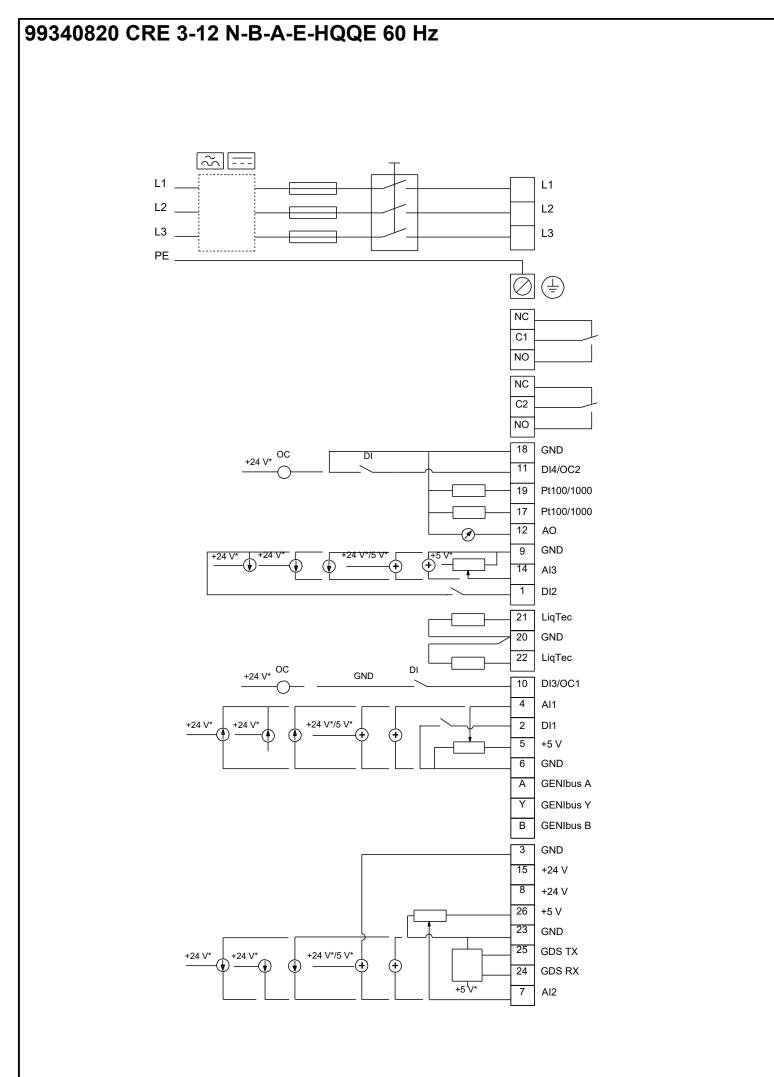


Materials:

Cast iron
EN 1561 EN-GJL-200
ASTM A48-25B
Stainless steel
AISI 304
EN 1.4301
A
E

Description	
CRE 3-12 N-B-A-E-HQQE	
CRUNDFOS X	
Product No.: 99340820	Note! Product picture may differ from actual product
- all other wetted parts are	gal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and n is via a rigid split coupling. Pipe connection is via oval flanges with internal NPT threads.
	phase, fan-cooled, permanent-magnet, synchronous motor.
	sified as IE5 in accordance with IEC 60034-30-2. ency converter and PI controller in the motor terminal box. This enables continuously variable control of
the motor speed, which aga	ain enables adaptation of the performance to a given requirement.
	motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.
The push-buttons are used	ve and user-friendly interface to all functions. to navigate through the menu structure to access pump and performance data on site and enable as well as setting of pump to "Min." or "Max." operation or to "Stop".
Communication with the pu settings as well as reading consumption".	mp is also possible by means of Grundfos GO Remote (accessory). The remote control enables further out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power
The Grundfos Eve indicato	r on the operating panel provides visual indication of pump status:
	s running (rotating green indicator lights) or not running (permanently green indicator lights)
	still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
	stopped (flashing red indicator lights). nber of inputs and outputs enabling the motor to be used in advanced applications where many inputs
and outputs are required:	
two dedicated digita	
 Inree analog inputs, 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
	o potentiometer and sensor
 one analog output, (two configurable did 	J-10 V, 0(4)-20 mA ital inputs or open-collector outputs
 two Pt100/Pt1000 ir 	puts
	protection sensor input nsor input and output
 24 V voltage supply 	·
	outs (potential-free contacts)
GENIbus connection interface for Grundfe	os CIM fieldbus module.
Liquid:	
Pumped liquid:	Water
Liquid temperature range: Selected liquid temperature	-4 248 °F e: 68 °F
Density:	62.29 lb/ft ³
Technical:	
	p data are based: 3452 rpm
Rated flow:	15.4 US GPM
Rated head: Pump orientation:	272.3 ft Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals:	CURUS
Approvals for drinking wate Curve tolerance:	r: NSF/ANSI 61 ISO9906:2012 3B
	1503300.2012 30
Materials:	
1	

Description	
Base:	Cast iron
	EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Bearing:	SIC
200	
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 inch
Size of outlet connection:	1 inch
Pressure rating for connection:	PN 16
Flange size for motor:	56C
Electrical data:	
Motor standard:	NEMA
Motor type:	90C
IE Efficiency class:	IE5
Rated power - P2:	2 HP
Power (P2) required by pump:	2 HP
Mains frequency:	60 Hz
Rated voltage:	3 x 440-480 V
Service factor:	1.15
Rated current:	2.65 A
Cos phi - power factor:	0.87
Rated speed:	360-4000 rpm
Efficiency:	89.4%
Motor efficiency at full load:	89.4 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	98362281
Controls:	
Frequency converter:	Built-in
Pressure sensor:	Y
Otherse	
Others:	74.0 lb
Net weight:	71.8 lb
Gross weight:	82.8 lb
Shipping volume:	6.11 ft³



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