

Submittal Data

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

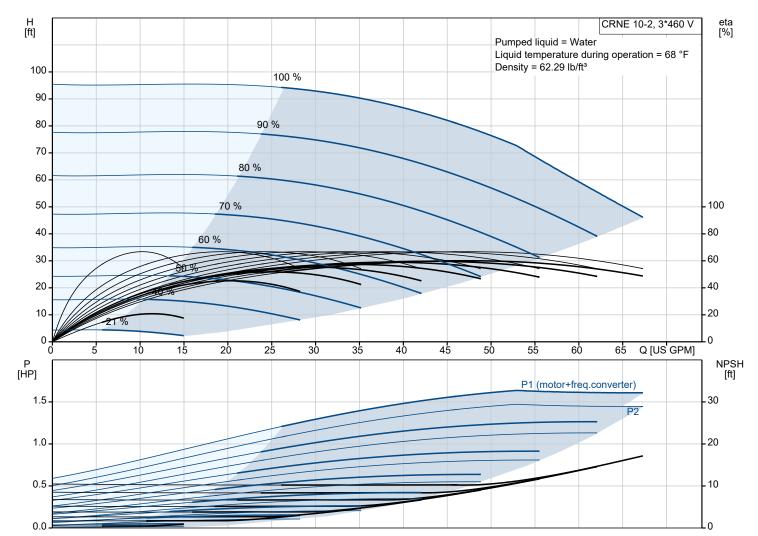


CRNE 10-2 N-P-A-E-HQQE

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

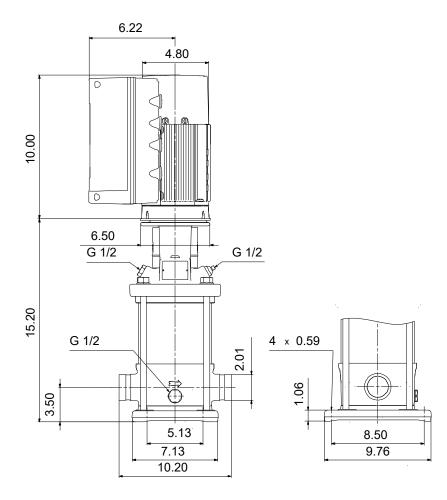
Note! Product picture may differ from actual product

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 122 °F HQQE 99340989	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	1.5 HP 440-480 V 60 Hz IP55 F ELEC 80B 89.6 %



Submittal Data





M	ate	ria	ls:

Base:	Stainless steel
Base:	EN 1.4408
Base:	AISI 316
Impeller:	Stainless steel
Impeller:	AISI 316
Impeller:	EN 1.4401
Material code:	А
Code for rubber:	E
Impeller: Impeller: Impeller: Material code:	Stainless steel AISI 316 EN 1.4401 A

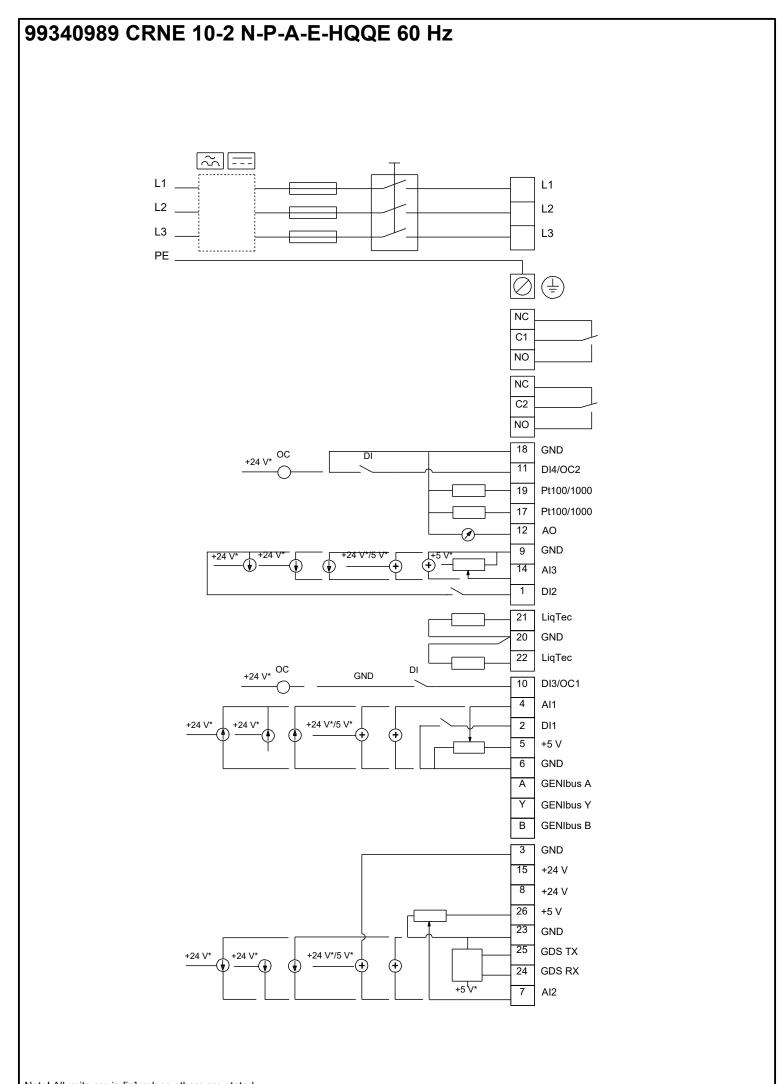
Qty.	Description	
1	CRNE 10-2 N-P-A-E-HQQE	
·	Product No.: 99340989 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via PJE (Victaulic®) couplings.	
	The motor efficiency is classifie The motor includes a frequency	se, 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 of
		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 push-buttons are used to n	nd user-friendly interface to all functions. 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 i settings as well as reading out o 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
	 "Power on": Motor is run "Warning": Motor is still r "Alarm": Motor has stopp 	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).
	and outputs are required:	of inputs and outputs enabling the motor to be used in advanced applications where many inputs
	 two dedicated digital inp three analog inputs, 0(4) inputs 	uts)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these
	 5 V voltage supply to po one analog output, 0-10 	V, 0(4)-20 mA
	 two Pt100/Pt1000 inputs LiqTec, dry-running protein 	ection sensor input
	 Grundfos Digital Sensor 24 V voltage supply for s two signal-relay outputs 	sensors
	GENIbus connection interface for Grundfos C	
	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	to are based: 2466 rpm
	Rated flow:	ta are based: 3466 rpm 53.3 US GPM
	Rated head:	72.51 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:	NSF/ANSI 61
	Curve tolerance:	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 [.]	122 °F

Maximum operating pressure: 362.59 psi

t max amb:

122 °F

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:	56C
Electrical data:	
Motor standard:	NEMA
Motor type:	80B
IE Efficiency class:	IE5
Rated power - P2:	1.5 HP
Power (P2) required by pump:	1.5 HP
Mains frequency:	60 Hz
Rated voltage:	3 x 440-480 V
Service factor:	1.15
Rated current:	2.05 A
Cos phi - power factor:	0.84
Rated speed:	360-4000 rpm
Efficiency:	89.6%
Motor efficiency at full load:	89.6 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	99256784
Controls:	
Frequency converter:	Built-in
Pressure sensor:	Y
Others:	
DOE Pump Energy Index VL:	0.41
Net weight:	81.6 lb
Gross weight:	99.2 lb
Shipping volume:	6.11 ft ³



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