

Submittal Data

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

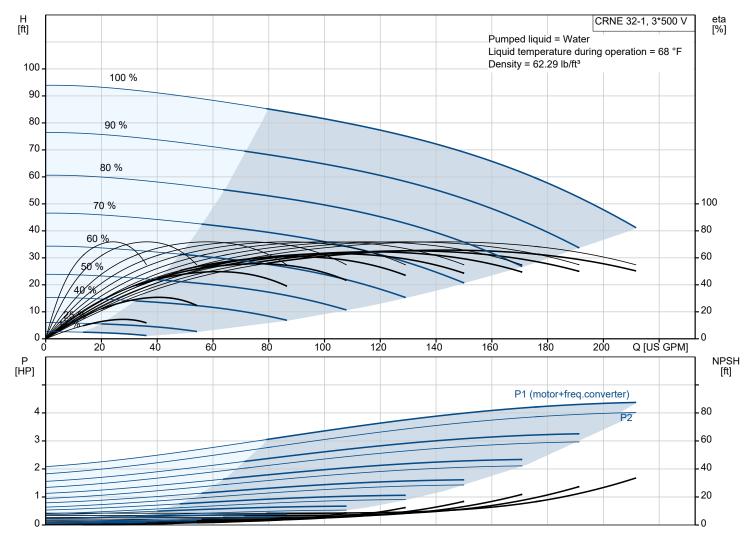


CRNE 32-1 N-G-A-E-HQQE

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

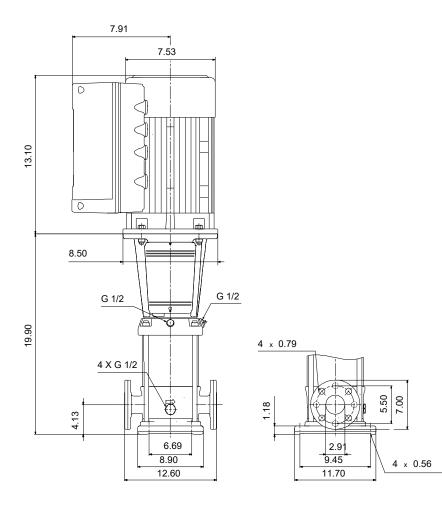
Note! Product picture may differ from actual product

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:	232 psi / 250 °F -40 248 °F 122 °F HQQE 99076531	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	5 HP 440-480 V 60 Hz IP55 F ELEC 112C 92.5 %





Submittal Data



Materials:

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

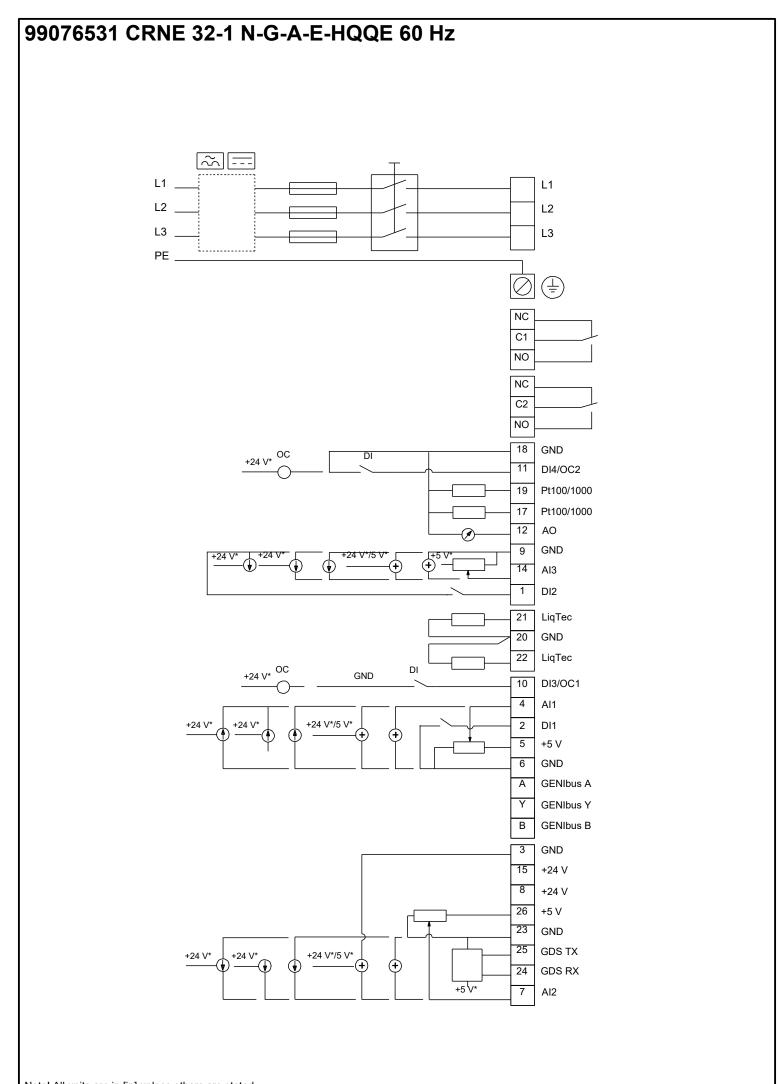
Descripti	on	
CRNE 32	-1 N-G-A-E-HQQE	
-	lo.: 99076531	
Vertical n	multistade centrifudal i	pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid
are in high	h-grade stainless stee	I. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Powe
transmiss	ion is via a rigid split o	coupling. Pipe connection is via ANSI flanges.
		se, fan-cooled, permanent-magnet, synchronous motor.
		d as IE5 in accordance with IEC 60034-30-2.
	,	<i>i</i> converter and PI controller in the motor terminal box. This enables continuously variable control of
the motor	speed which again e	nables adaptation of the performance to a given requirement.
		for terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.
	aling parter on the mos	
The displa	av gives an intuitive a	nd user-friendly interface to all functions.
		avigate through the menu structure to access pump and performance data on site and enable
setting of	required setpoint as v	vell as setting of pump to "Min." or "Max." operation or to "Stop".
Communi	cation with the pump	is also possible by means of Grundfos GO Remote (accessory). The remote control enables furthe
settings a	s well as reading out	of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power
consumpt	tion".	
The Grun	dfos Eye indicator on	the operating panel provides visual indication of pump status:
• "Pe	ower on": Motor is run	ning (rotating green indicator lights) or not running (permanently green indicator lights)
• "W	/arning": Motor is still	running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
• "A	larm": Motor has stop	ped (flashing red indicator lights).
		of inputs and outputs enabling the motor to be used in advanced applications where many inputs
and outpu	uts are required:	
• two	o dedicated digital inp	uts
• thr	ee 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
	outs	
• 5 \	voltage supply to po	tentiometer and sensor
	e analog output, 0-10	
	•	nputs or open-collector outputs
	o Pt100/Pt1000 inputs	
	Tec, dry-running prot	
	undfos Digital Sensor	
	V voltage supply for	
	0 11 2	(potential-free contacts)
	ENIbus connection	
	erface for Grundfos C	IM fieldhus module
Liquid:		
Pumped I	iquid:	Water
	nperature range:	-40 248 °F
	liquid temperature:	68 °F
Density:	inquia temperatare.	62.29 lb/ft ³
bonony.		
Technical	·	
	eed on which pump da	ata are based: 3461 rpm
Rated flow		159 US GPM
Rated hea		67.59 ft
	peller diameter:	4.66 in
Pump orie		Vertical
	l arrangement:	Single
	shaft seal:	HQQE
Approvals		
	s for drinking water:	NSF/ANSI 61
Curve tole	erance:	ISO9906:2012 3B
Materia		
Materials:		
Base:		Stainless steel
		EN 1.4408
		AISI 316
Impeller:		Stainless steel
		EN 1.4401
1		AISI 316
Bearing:		SIC
Support b	earing:	Graflon
	-	
Installatio	n:	
	h:	122 °F

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122 °F

t max amb:

Description	
Maximum operating pressure:	232.06 psi
Max pressure at stated temp:	232 psi / 250 °F
	232 psi / -40 °F
Type of connection:	ANSI
Size of inlet connection:	2 1/2 inch
Size of outlet connection:	2 1/2 inch
Pressure rating for connection:	PN 16
Flange rating inlet:	150 lb
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 440-480 V
Service factor:	1.15
Rated current:	6.20-5.80 A
Cos phi - power factor:	0.90-0.88
Rated speed:	360-4000 rpm
Efficiency:	92.5%
Motor efficiency at full load:	92.5 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	99256771
Controls:	
Frequency converter:	Built-in
Pressure sensor:	Y
Others:	
DOE Pump Energy Index VL:	0.40
Net weight:	174 lb
Gross weight:	192 lb
Shipping volume:	10.9 ft ³



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