

Submittal Data

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



CRNE 20-4 N-FGJ-A-E-HQQE

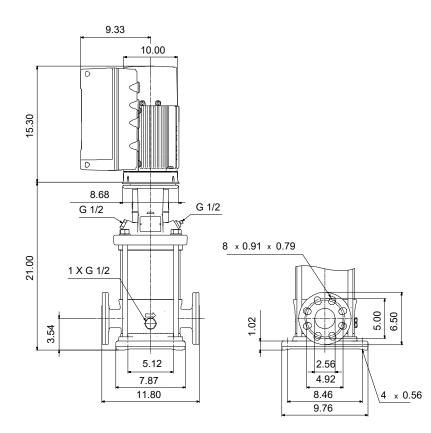
Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in high-grade stainless steel (EN 1.4401)

Note! Product picture may differ from actual product

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C	onditions of Service	Pur	np Data		Motor Dat	a
Liquid: Tempe Specifi	Water rature: 68 °F c Gravity: 1.000	Max pressure at stated to Liquid temperature range Maximum ambient tempe Shaft seal: Product number:	e: -4 248	3°F	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	10 HP 440-480 V 60 Hz IP55 F ELEC 132F 92.5 %
H [ft]				Pumped liq	CRNE 20-4, 3*500) V eta [%]
300-	100 %			Liquid temp Density = 6	erature during operation = 68 °	°F
250-	90 %					- 100
200-						- 80
150-	70 %					- 60
100-	80 %					-40
50 -	25 % 17 %					20
0. ([HP]		50 60 70 80	90 100 110		30 140 150 Q [US GF	PM] NPSH [ft]
- 8-				P1 (m	notor+freq.converter) P2	-40
o- 6-						- 30
4.						- 20
2.						10
0-						L0

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

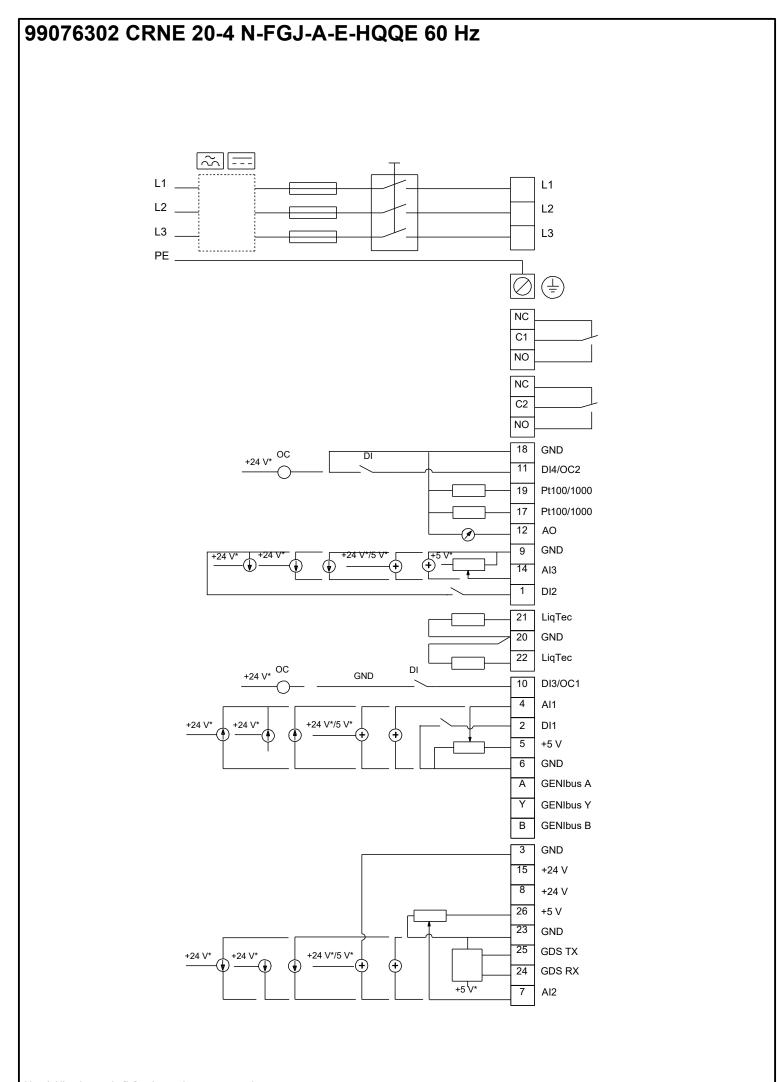
Qty.	Description	
1	CRNE 20-4 N-FGJ-A-E-HQQE Product No.: 99076302	
	are in high-grade stainless steel.	mp with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power upling. Pipe connection is via combined DIN-ANSI-JIS flanges.
	The motor efficiency is classified The motor includes a frequency of the motor speed, which again end	, fan-cooled, permanent-magnet, synchronous motor. as IE5 in accordance with IEC 60034-30-2. converter and PI controller in the motor terminal box. This enables continuously variable control of ables 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 push-buttons are used to nav	user-friendly interface to all functions. <i>i</i> igate through the menu structure to access pump and performance data on site and enable II as setting of pump to "Min." or "Max." operation or to "Stop".
	Communication with the pump is settings as well as reading out of consumption".	also possible by means of Grundfos GO Remote (accessory). The remote control enables further a number of parameters such as "Actual value", "Speed", "Power input" and total "Power
	 "Power on": Motor is runni "Warning": Motor is still run "Alarm": Motor has stoppe The terminal box has a number or 	e operating panel provides visual indication of pump status: ng (rotating green indicator lights) or not running (permanently green indicator lights) nning (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) d (flashing red indicator lights). f inputs and outputs enabling the motor to be used in advanced applications where many inputs
	 and outputs are required: two dedicated digital input 	
	 three analog inputs, 0(4)-2 inputs 5 V voltage supply to pote 	20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these
	 one analog output, 0-10 V two configurable digital inp two Pt100/Pt1000 inputs 	, 0(4)-20 mA buts or open-collector outputs
	 LiqTec, dry-running protect Grundfos Digital Sensor in 24 V voltage supply for se 	iput and output nsors
	 two signal-relay outputs (p GENIbus connection interface for Grundfos CIN 	
	Liquid:	
	Pumped liquid:	Water
	Liquid temperature range:	-4 248 °F
	Selected liquid temperature:	68 °F
	Density:	62.29 lb/ft ³
	Technical:	
	Pump speed on which pump data	are based: 3470 rpm
	Rated flow:	111 US GPM
	Rated head:	210.3 ft
	Actual impeller diameter:	4.13 in
	Pump orientation:	Vertical
	Shaft seal arrangement:	Single
	Code for shaft seal:	HQQE
	Approvals:	CURUS
	Approvals for drinking water: Curve tolerance:	NSF/ANSI 61 ISO9906:2012 3B
	Materials:	
	Base:	Stainless steel EN 1.4408 AISI 316
	Impeller:	Stainless steel EN 1.4401 AISI 316
	Bearing:	SIC
	Installation:	

122 °F

362.59 psi

t max amb:

Description	
Max pressure at stated temp:	363 psi / 250 °F
	363 psi / -4 °F
Type of connection:	DIN / ANSI / JIS
Size of inlet connection:	DN 50
Size of outlet connection:	DN 50
Pressure rating for connection:	PN 25
Flange rating inlet:	300 lb
Flange size for motor:	213TC
Electrical data:	
Motor standard:	NEMA
Motor type:	132F
IE Efficiency class:	IE5
Rated power - P2:	10 HP
Power (P2) required by pump:	10 HP
Mains frequency:	60 Hz
Rated voltage:	3 x 440-480 V
Service factor:	1.15
Rated current:	12.4-11.5 A
Cos phi - power factor:	0.91-0.90
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:	99256776
Controls:	
Frequency converter:	Built-in
Pressure sensor:	Y
Others:	
DOE Pump Energy Index VL:	0.41
Net weight:	192 lb
Gross weight:	278 lb
Shipping volume:	13.1 ft ³



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