

Submittal Data

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



CRNE 10-1 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 99340988	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 %



Submittal Data





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

t y .	Description	
1	CRNE 10-1 N-P-A-E-HQQE	
	Product No.: 99340988	
	Vertical, multistage centrifugal p are in high-grade stainless steel transmission is via a rigid split co	ump 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 oupling. Pipe connection is via PJE (Victaulic®) couplings.
	The pump is fitted with a 3-phas The motor efficiency is classified	e, fan-cooled, permanent-magnet, synchronous motor. t as IE5 in accordance with IEC 60034-30-2
	The motor includes a frequency the motor speed, which again er	converter and PI controller in the motor terminal box. This enables continuously variable control of nables adaptation of the performance to a given requirement.
	The operating panel on the moto	or terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.
	The display gives an intuitive an	d user-friendly interface to all functions.
	The push-buttons are used to na setting of required setpoint as w	avigate through the menu structure to access pump and performance data on site and enable ell as setting of pump to "Min." or "Max." operation or to "Stop".
	Communication with the pump is settings as well as reading out o consumption".	s also possible by means of Grundfos GO Remote (accessory). The remote control enables further f a number of parameters such as "Actual value", "Speed", "Power input" and total "Power
	The Grundfos Eve indicator on t	he operating panel provides visual indication of pump status:
	 "Power on": Motor is runn "Warning": Motor is still runn 	ing (rotating green indicator lights) or not running (permanently green indicator lights) unning (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
	 "Alarm": Motor has stopp The terminal box has a number and outputs are required: 	ed (flashing red indicator lights). of inputs and outputs enabling the motor to be used in advanced applications where many inputs
	 two dedicated digital input three analog inputs, 0(4)- inputo 	its -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 pot	entiometer and sensor
	 one analog output, 0-10 ' 	V. 0(4)-20 mA
	 two configurable digital ir 	iputs or open-collector outputs
	 two Pt100/Pt1000 inputs 	
	 LiqTec, dry-running prote 	ection sensor input
	 Grundfos Digital Sensor 	input and output
	24 V voltage supply for s	ensors
	• two signal-relay outputs (potential-free contacts)
	 GENIDUS connection interface for Grundfos CI 	M fieldhus module
	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 dat	ta are based: 3439 rpm
	Rated flow:	53.3 US GPM
	Rated head:	32.81 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: Curve tolerance:	NSF/ANSF61 ISO9906:2012 3B
	•• • • •	
	Materials:	Stainlage steel
	Base:	
		EN 1.4400 AISI 316
	Impeller:	Aloi o lu Stainless steel
I		Stanless Steel FN 1 4401
		AISI 316
	Bearing:	SIC
	Installation:	
	motalialion.	

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122 °F

362.59 psi

Qty.	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:	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
	Others:	
	DOE Pump Energy Index VL:	0.41
	Net weight:	79.4 lb
	Gross weight:	97 lb
	Shipping volume:	6.11 ft ³



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