

Submittal Data

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

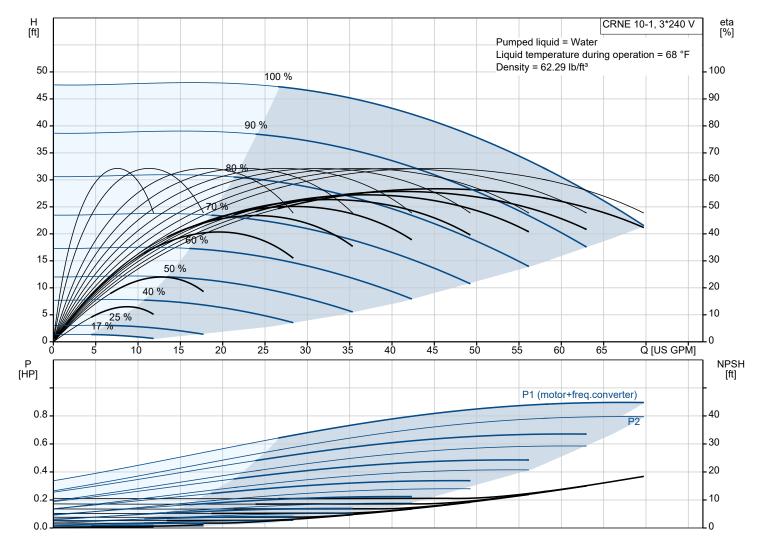


CRNE 10-1 BN-P-A-E-HQQE

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

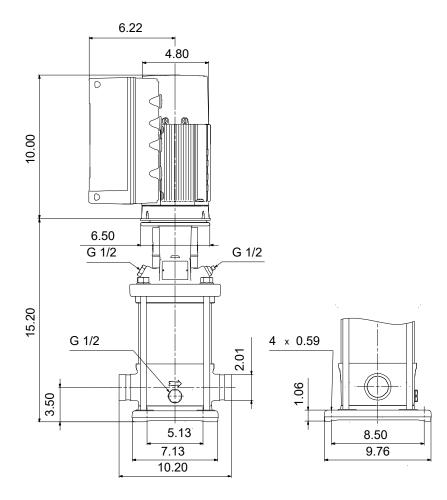
Note! Product picture may differ from actual product

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 104 °F HQQE 99392047	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	1.5 HP 200-240 V 60 Hz IP55 F ELEC 80B 89.3 %



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

y .	Description			
	CRNE 10-1 BN-P-A-E-HQQE			
	Product No.: 99392047			
	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 PJĔ (Victaulic®) couplings.		
		, fan-cooled, permanent-magnet, synchronous motor.		
	2	as IE5 in accordance with IEC 60034-30-2. converter and PI controller in the motor terminal box. This enables continuously variable control o		
	the motor speed, which again ena	ables adaptation of the performance to a given requirement.		
		terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.		
		user-friendly interface to all functions.		
	I he push-buttons are used to have setting of required setpoint as we	vigate through the menu structure to access pump and performance data on site and enable Il as setting of pump to "Min." or "Max." operation or to "Stop".		
	Communication with the pump is	also possible by means of Grundfos GO Remote (accessory). The remote control enables further		
	consumption".	a number of parameters such as "Actual value", "Speed", "Power input" and total "Power		
	·			
	The Grundfos Eye indicator on th	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).		
	and outputs are required:	f inputs and outputs enabling the motor to be used in advanced applications where many inputs		
	 two dedicated digital input 	S		
	•	20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these		
	inputs	· · · · · · · · · · · · · · · · · · ·		
	 5 V voltage supply to pote 	ntiometer and sensor		
	 one analog output, 0-10 V 			
		outs or open-collector outputs		
	two Pt100/Pt1000 inputs			
	 LiqTec, dry-running protect Grundfos Digital Sensor in 			
	 24 V voltage supply for se 			
	 two signal-relay outputs (p 			
	GENIbus connection			
	 interface for Grundfos CIN 	1 fieldbus 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 data			
	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:	NSF/ANSI 61		
	Curve tolerance:	ISO9906:2012 3B		
	Materials:			
	Base:	Stainless steel		
		EN 1.4408		
		AISI 316		
	Impeller:	Stainless steel		
		EN 1.4401		
	Roaring:	AISI 316 SIC		
	Bearing:			
	Installation:			

104 °F

362.59 psi

t max amb:

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 200-240 V
Service factor:	1.15
Rated current:	4.10-3.50 A
Cos phi - power factor:	0.91
Rated speed:	360-4000 rpm
Efficiency:	89.3%
Motor efficiency at full load:	89.3 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	99301705
Controls:	
Frequency converter:	Built-in
Pressure sensor:	Y
Others:	
DOE Pump Energy Index VL:	0.43
Net weight:	81.6 lb
Gross weight:	168 lb
Shipping volume:	6.11 ft ³

