

Submittal Data

PROJECT:	UNIT TAG:		QUANTITY:	
	TYPE OF SERVICE:			
	THE OF CERTICE.			
REPRESENTATIVE:	SUBMITTED BY:		DATE:	
INCI NEOLIVIATIVE.	 OODIVIITIED DT.		DATE.	
ENGINEER:	APPROVED BY:	<u> </u>	DATE:	
LINGINLLIN.	AFFROVED DT.		DATE.	
CONTRACTOR:	ORDER NO.:		DATE:	
CONTRACTOR.	ONDER NO		DATE.	



CRE 10-10 N-GJ-A-E-HQQE

Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in stainless steel (EN 1.4301)

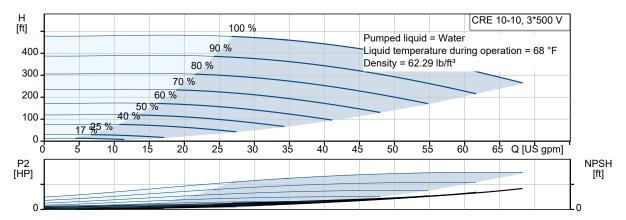
Product photo could vary from the actual product

Conditions of Service							
Efficiency:							
Liquid:	Water						
Temperature:	68 °F						
NPSH required:	ft						
Specific Gravity:	1.000						

Max pressure at stated temperature:	232 psi / 250 °F
Liquid temperature range:	-4 248 °F
Maximum ambient temperature:	122 °F
Approvals:	CURUS,NSF/ANSI 61
Shaft seal:	HQQE
Product number:	99076157

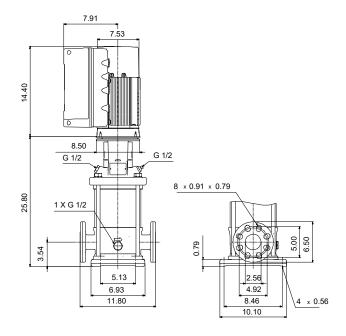
Pump Data

Motor Data					
Rated power - P2:	7.5 HP				
Rated voltage:	440-480 V				
Main frequency:	60 Hz				
Enclosure class:	IP55				
Insulation class:	F				
Motor protection:	ELEC				
Motor type:	132E				
Eff. 1/1:	92.4 %				





Submittal Data



Materials:

Base: Cast iron

Base: EN 1561 EN-GJL-200
Base: ASTM A48-25B
Impeller: Stainless steel
Impeller: AISI 304

Impeller: AISI 304 Impeller: EN 1.4301

Material code: A
Code for rubber: E



Date: 4/8/2021

Count | Description

CRE 10-10 N-GJ-A-E-HQQE



Product No.: 99076157

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in 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 combined ANSI-JIS flanges.

The pump is fitted with a 3-phase, fan-cooled, permanent-magnet, synchronous motor.

The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables 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 display gives an intuitive and user-friendly interface to all functions.

The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well 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 settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
- "Alarm": Motor has stopped (flashing red indicator lights).

The terminal box has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:

- · two dedicated digital inputs
- three 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 inputs
- 5 V voltage supply to potentiometer and sensor
- one analog output, 0-10 V, 0(4)-20 mA
- · two configurable digital inputs or open-collector outputs
- two Pt100/Pt1000 inputs



Date: 4/8/2021

Count | Description

- · LiqTec, dry-running protection sensor input
- · Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- · GENIbus connection
- interface for Grundfos CIM fieldbus module.

Further product details

The pump is equipped with a pressure sensor registering pump outlet pressure and enabling controlled pump operation based on constant pressure.

The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.

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- "Alarm": Motor has stopped (flashing red indicator lights).

Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process.

CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

An integral part of the process is a pretreatment.

The entire process consists of these elements:

- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

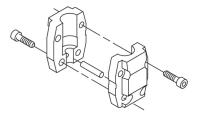
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

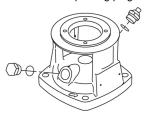
A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



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The pump head, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.



The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system.

This seal type is assembled in a cartridge unit which makes replacement safe and easy.

Due to the balancing, this seal type is suitable for high-pressure applications.

The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.

Primary seal:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The base is made of cast iron. The flanges and base are cast in one piece. The outlet side of the base has a drain plug. The pump is secured to the foundation by four bolts through the base plate.



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Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II). Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Technical data

Liquid:

Pumped liquid: Water
Liquid temperature range: -4 .. 248 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical:

Rated pump speed: 3467 rpm
Rated flow: 53.3 US gpm
Rated head: 376.3 ft
Actual impeller diameter: 3.66 in
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE

Approvals on nameplate: CURUS,NSF/ANSI 61 Curve tolerance: ISO9906:2012 3B

Materials:

Base: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B

Impeller: Stainless steel EN 1.4301

AISI 304

Bearing: SIC SIC

Installation:

Maximum ambient temperature: 122 °F Maximum operating pressure: 232.06 psi



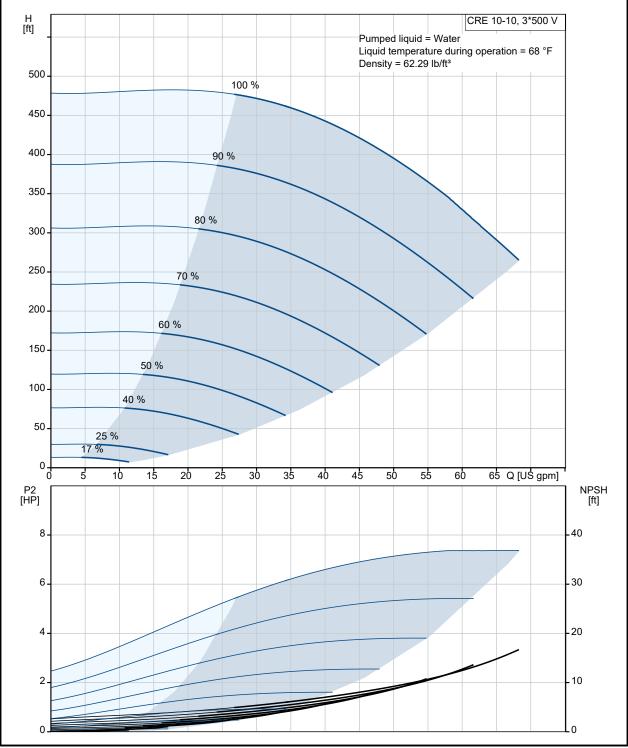
Date: 4/8/2021

			Date.	4/	0/2021	
Count	Description					
	Max pressure at stated temperat	ure:	232 psi / 250 °F 232 psi / -4 °F			
	Type of connection:	ANS	SI / JIS			
	Size of inlet connection:	DN				
	Size of outlet connection:	DN				
	Pressure rating for connection:	PN				
	Flange rating inlet:	300				
	Flange size for motor:	213				
	Electrical data:					
	Motor standard:	NEN				
	Motor type:	132	E			
	IE Efficiency class:	IE5				
	Rated power - P2:	7.5				
	Power (P2) required by pump:	7.5				
	Main frequency:	60 H				
	Rated voltage:		440-480 V			
	Service factor:	1.15				
	Rated current:)-8.50 A			
	Cos phi - power factor:		-0.89			
	Rated speed:		-4000 rpm			
	IE efficiency:	92.4				
	Motor efficiency at full load:	92.4				
	Enclosure class (IEC 34-5):	IP5)			
	Insulation class (IEC 85):	F	50770			
	Motor Number:	992	56773			
	Controls:	D:1	k to			
	Frequency converter:	Buil	t-in			
	Pressure sensor:	Y				
	Others: DOE Pump Energy Index VL:	0.40	1			
	Net weight:	185				
	Gross weight:	205				
	Shipping volume:	13.1				
	Country of origin:	US	10			
	Custom tariff no.:		3.70.2040			
	Gustom tarm no	011	0.7 0.20 10			
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Date: 4/8/2021

99076157 CRE 10-10 N-GJ-A-E-HQQE 60 Hz

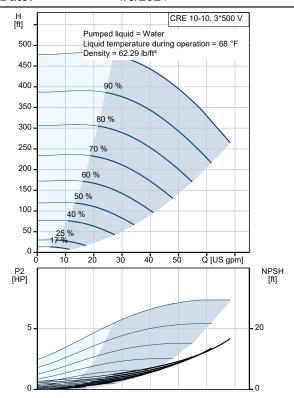


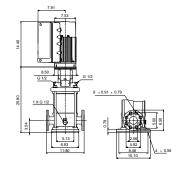


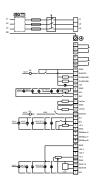
Date:

4/8/2021

Description Value General information: CRE 10-10 N-GJ-A-E-HQQE Product No.: 99076157 EAN: 5712606278930 Technical: 3467 rpm Rated pump speed: 3467 rpm Rated flow: 53.3 US gpm Rated head: 376.3 ft Maximum head: 482.3 ft Actual impeller diameter: 3.66 in Stages: 10 Impellers: 10 Number of reduced-diameter impellers: 0 Low NPSH: N Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CURUS,NSF/ANSI 61 Curve tolerance: ISO9906:2012 3B Pump version: N Model: A Materials: EN 1561 EN-GJL-200 Base: EN 1561 EN-GJL-200 Base: ASTM A48-25B Impeller: EN 1.4301 Impeller: AISI 304 Material code: <th>[-</th> <th></th>	[- 	
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Impeller: AISI 304 Material code: A		
Material code: A	•	
	•	
Code for rubber:		
		_
Bearing: SIC		
Bearing: SIC	•	SIC
Installation:		
Maximum ambient temperature: 122 °F	•	
Maximum operating pressure: 232.06 psi		
Max pressure at stated temperature: 232 psi / 250 °F	Max pressure at stated temperature:	232 psi / 250 °F
Max pressure at stated temperature: 232 psi / -4 °F	Max pressure at stated temperature:	232 psi / -4 °F
Type of connection: ANSI / JIS	Type of connection:	ANSI / JIS
Size of inlet connection: DN 50	Size of inlet connection:	DN 50
Size of outlet connection: DN 50	Size of outlet connection:	DN 50
Pressure rating for connection: PN 25	Pressure rating for connection:	PN 25
Flange rating inlet: 300 lb	Flange rating inlet:	300 lb
Flange size for motor: 213TC	Flange size for motor:	213TC
Connect code: GJ	_	GJ
Liquid:	Liquid:	









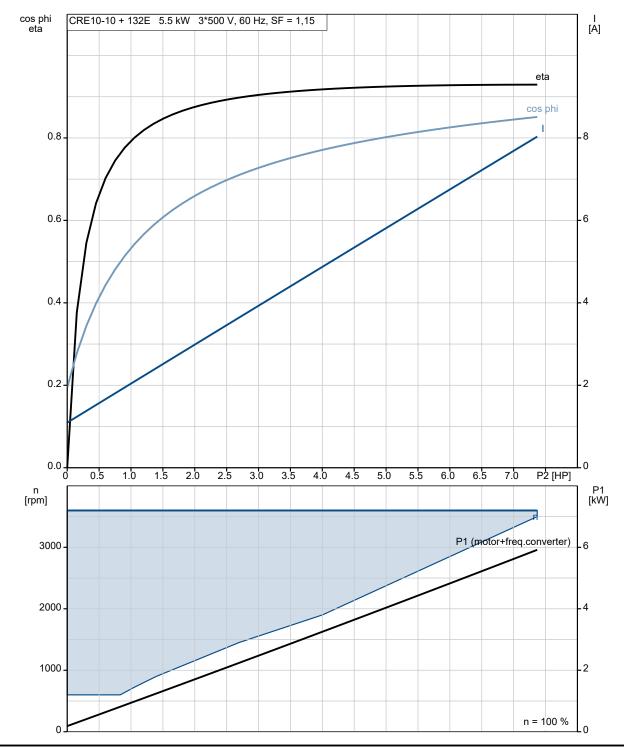
Date: 4/8/2021

Description	Value
Pumped liquid:	Water
Liquid temperature range:	-4 248 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft ³
Electrical data:	
Motor standard:	NEMA
Motor type:	132E
IE Efficiency class:	IE5
Rated power - P2:	7.5 HP
Power (P2) required by pump:	7.5 HP
Main frequency:	60 Hz
Rated voltage:	3 x 440-480 V
Service factor:	1.15
Rated current:	9.10-8.50 A
Cos phi - power factor:	0.91-0.89
Rated speed:	360-4000 rpm
IE efficiency:	92.4%
Motor efficiency at full load:	92.4 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protection:	ELEC
Motor Number:	99256773
Controls:	
Control panel:	Graphical
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	Υ
Others:	
DOE Pump Energy Index VL:	0.40
Net weight:	185 lb
Gross weight:	205 lb
Shipping volume:	13.1 ft³
Config. file no:	99074170
Country of origin:	US
Custom tariff no.:	8413.70.2040



Date: 4/8/2021

99076157 CRE 10-10 N-GJ-A-E-HQQE 60 Hz

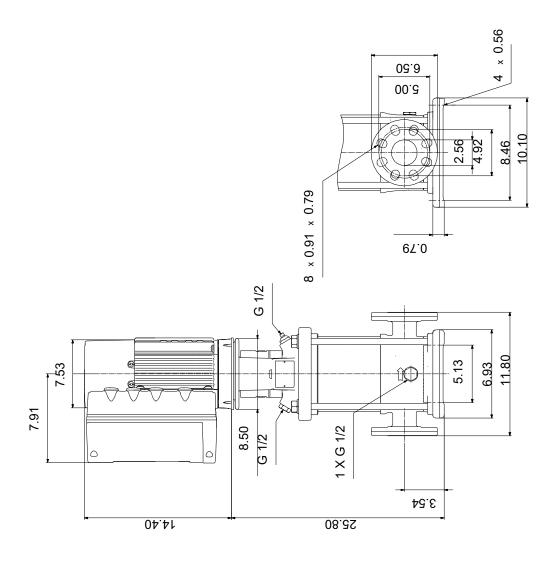




Date:

4/8/2021

99076157 CRE 10-10 N-GJ-A-E-HQQE 60 Hz



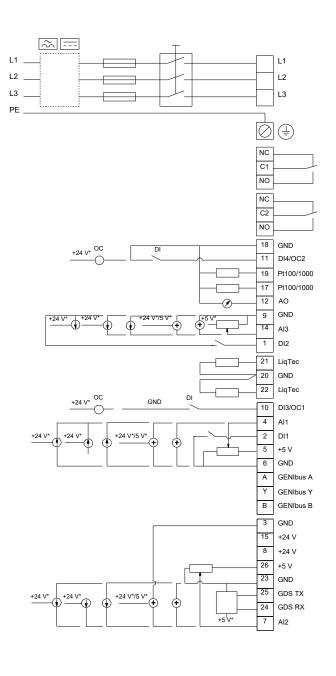
Note! All units are in [in] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

4/8/2021

99076157 CRE 10-10 N-GJ-A-E-HQQE 60 Hz



All units are [in] unless otherwise presented.