

Submittal Data

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

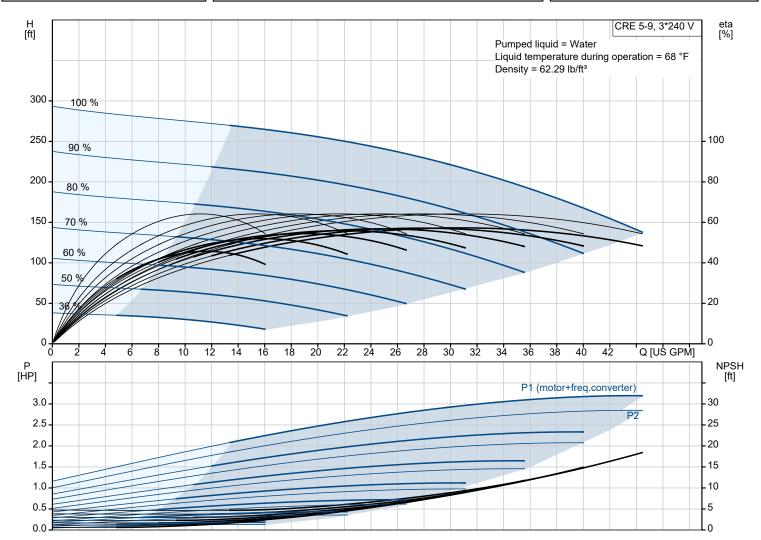


CRE 5-9 N-B-A-E-HQQE

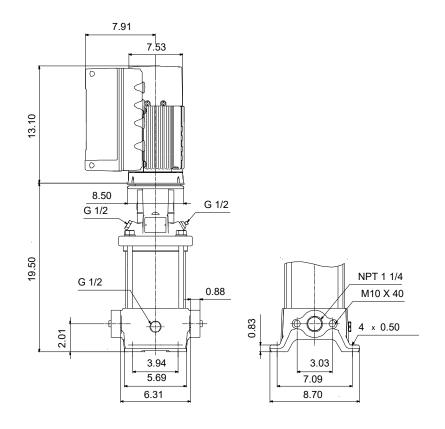
Vertical, multistage centrifugal pump with integrated frequency converter. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

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 -4 248 °F 104 °F HQQE 99389081	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	3 HP 200-240 V 60 Hz IP55 F ELEC 100A 88.7 %





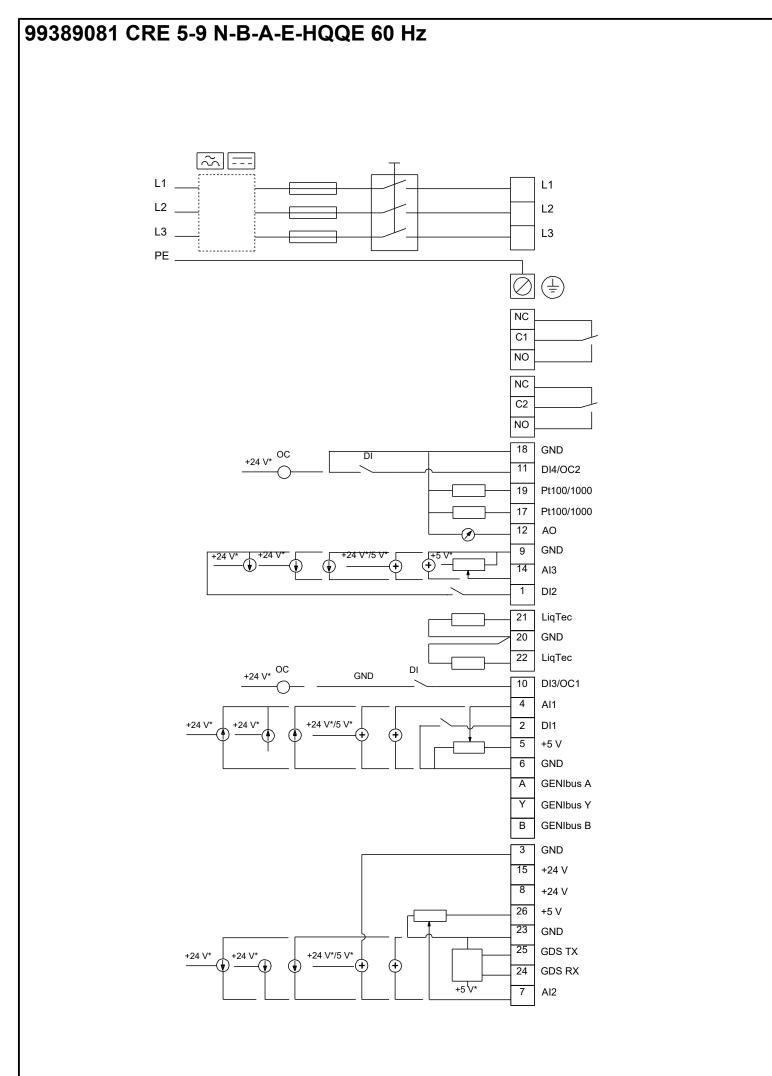


Materials:

Cast iron
EN 1561 EN-GJL-200
ASTM A48-25B
Stainless steel
AISI 304
EN 1.4301
A
E

Description					
CRE 5-9 N-B-A-E-HQQE					
	Note! Product picture may differ from actual product				
Product No.: 99389081					
– all other wetted parts are in s	pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and sia a rigid split coupling. Pipe connection is via oval flanges with internal NPT threads.				
	ase, fan-cooled, permanent-magnet, synchronous motor.				
	ed as IE5 in accordance with IEC 60034-30-2.				
the motor speed, which again	cy converter and PI controller in the motor terminal box. This enables continuously variable control of enables adaptation of the performance to a given requirement.				
	otor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.				
The display since as intuition	and user friendly interface to all functions				
The push-buttons are used to	and user-friendly interface to all functions. navigate through the menu structure to access pump and performance data on site and enable well as setting of pump to "Min." or "Max." operation or to "Stop".				
Communication with the pump settings as well as reading out consumption".	s also possible by means of Grundfos GO Remote (accessory). The remote control enables further of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power				
 "Warning": Motor is still "Alarm": Motor has stop The terminal box has a number and outputs are required: two dedicated digital in 					
inputs	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 otentiometer and sensor				
 one analog output, 0-10 					
č	inputs or open-collector outputs				
 two Pt100/Pt1000 input LiqTec, dry-running pro 					
Grundfos Digital Senso					
24 V voltage supply for	sensors				
 two signal-relay outputs GENIbus connection 	s (potential-free contacts)				
 interface for Grundfos (CIM fieldbus module.				
Liquid: Pumped liquid:	Water				
Liquid temperature range:	-4 248 °F				
I LIQUIU LEMPERALUIE TANUE.					
Selected liquid temperature:	68 °F				
	68 °F 62.29 lb/ft³				
Selected liquid temperature:					
Selected liquid temperature: Density:	62.29 lb/ft ³				
Selected liquid temperature: Density: Technical: Pump speed on which pump d Rated flow:	62.29 lb/ft³ lata are based: 3461 rpm 30.4 US GPM				
Selected liquid temperature: Density: Technical: Pump speed on which pump d Rated flow: Rated head:	62.29 lb/ft ³ lata are based: 3461 rpm 30.4 US GPM 222.8 ft				
Selected liquid temperature: Density: Technical: Pump speed on which pump d Rated flow: Rated head: Pump orientation:	62.29 lb/ft ³ lata are based: 3461 rpm 30.4 US GPM 222.8 ft Vertical				
Selected liquid temperature: Density: Technical: Pump speed on which pump d Rated flow: Rated head:	62.29 lb/ft ³ lata are based: 3461 rpm 30.4 US GPM 222.8 ft				
Selected liquid temperature: Density: Technical: Pump speed on which pump d Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals:	62.29 lb/ft ³ lata are based: 3461 rpm 30.4 US GPM 222.8 ft Vertical Single HQQE CURUS				
Selected liquid temperature: Density: Technical: Pump speed on which pump d Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals: Approvals for drinking water:	62.29 lb/ft ³ lata are based: 3461 rpm 30.4 US GPM 222.8 ft Vertical Single HQQE CURUS NSF/ANSI 61				
Selected liquid temperature: Density: Technical: Pump speed on which pump d Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals:	62.29 lb/ft ³ lata are based: 3461 rpm 30.4 US GPM 222.8 ft Vertical Single HQQE CURUS				

Description	
Base:	Cast iron
	EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller:	Stainless steel
impeller.	
	EN 1.4301
	AISI 304
Bearing:	SIC
 Installation:	
t max amb:	104 °F
Maximum operating pressure:	232.06 psi
Max pressure at stated temp:	232 psi / 250 °F
	232 psi / -4 °F
Type of connection:	Oval / NPT(F)
Size of inlet connection:	1 1/4 inch
 Size of outlet connection:	1 1/4 inch
Pressure rating for connection:	PN 16
Flange size for motor:	182TC
 Electrical data:	
Motor standard:	NEMA
Motor type:	100A
IE Efficiency class:	IE5
Rated power - P2:	3 HP
Power (P2) required by pump:	3 HP
Mains frequency:	60 Hz
Rated voltage:	3 x 200-240 V
Service factor:	1.15
Rated current:	7.90-6.60 A
Cos phi - power factor:	0.94
Rated speed:	360-4000 rpm
Efficiency:	88.7%
Motor efficiency at full load:	88.7 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	99302693
Controls:	
Frequency converter:	Built-in
Pressure sensor:	Y
Others:	
Net weight:	90.4 lb
Gross weight:	174 lb
Shipping volume:	8.26 ft ³
Shipping volume.	0.20 ft



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