

Submittal Data

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

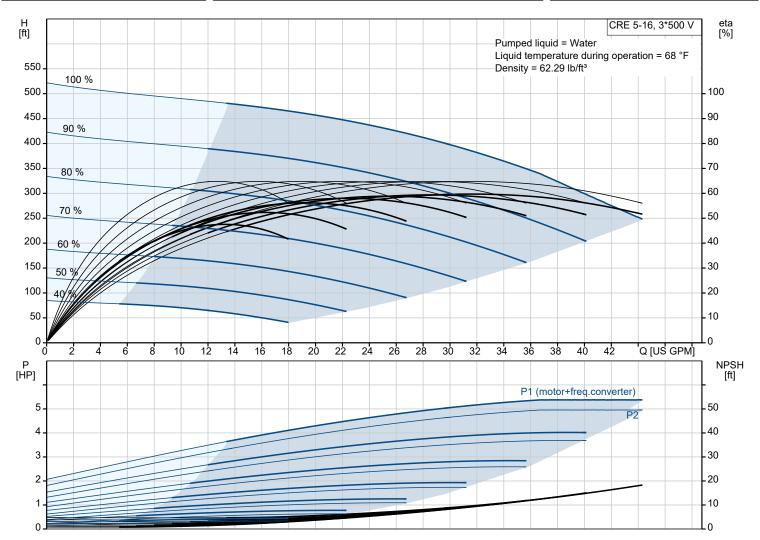


CRE 5-16 N-B-A-E-HQQE

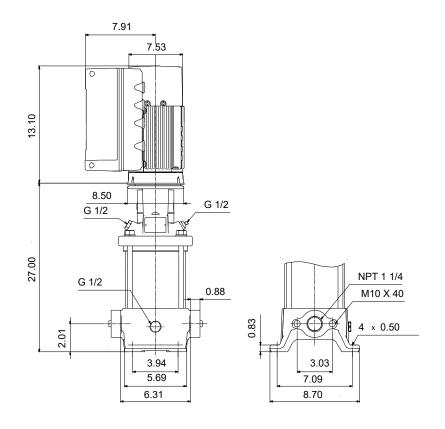
Vertical, multistage centrifugal pump with integrated frequency converter. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

Note! Product picture may differ from actual product

Conditions of	of Service	Pump Data		Motor Da	ata
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 122 °F HQQE 99076106	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	5 HP 440-480 V 60 Hz IP55 F ELEC 112C 92.5 %





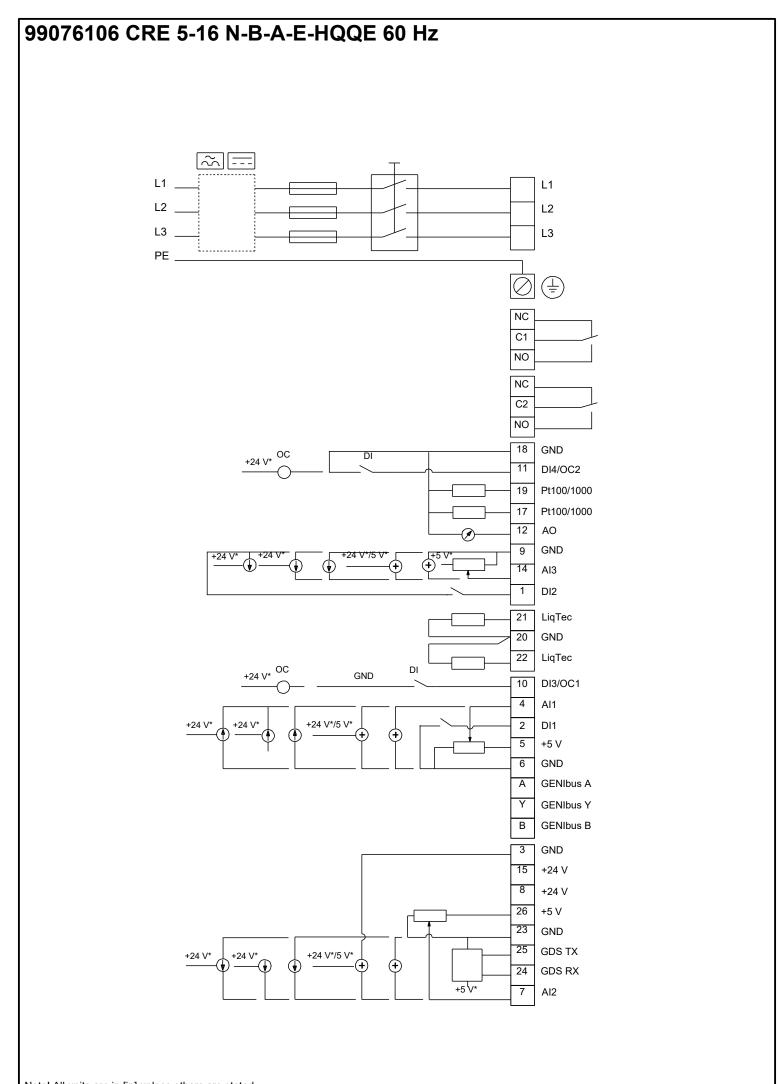


Materials:

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

Description	
CRE 5-16 N-B-A-E-HQQE	
emuppros X	
Product No.: 99076106	Note! Product picture may differ from actual product
- all other wetted parts are in sta	ump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron ainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and ria a rigid split coupling. Pipe connection is via oval flanges with internal NPT threads.
	e, fan-cooled, permanent-magnet, synchronous motor. d 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 nables adaptation of the performance to a given requirement.
	or terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.
The push-buttons are used to na	d user-friendly interface to all functions. 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 furthe f a number of parameters such as "Actual value", "Speed", "Power input" and total "Power
 "Power on": Motor is runn "Warning": Motor is still ru "Alarm": Motor has stopp 	he operating panel provides visual indication of pump status: ning (rotating green indicator lights) or not running (permanently green indicator lights) unning (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) ed (flashing red indicator lights).
and outputs are required:	of inputs and outputs enabling the motor to be used in advanced applications where many inputs
	uts -20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these
inputs5 V voltage supply to pot	entiometer and sensor
 one analog output, 0-10 two configurable digital ir 	V, 0(4)-20 mA nputs or open-collector outputs
 two Pt100/Pt1000 inputs LiqTec, dry-running prote 	
Grundfos Digital Sensor i	input and output
 24 V voltage supply for s two signal-relay outputs (
GENIbus connection interface for Grundfos CI	
Liquid:	
Pumped liquid:	Water
Liquid temperature range: Selected liquid temperature:	-4 248 °F 68 °F
Density:	62.29 lb/ft ³
Technical:	
Pump speed on which pump dat Rated flow:	ta are based: 3461 rpm 30.4 US GPM
Rated head:	384.2 ft
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
	CURUS
Approvals:	
	NSF/ANSI 61 ISO9906:2012 3B

Impeller:ASTM AA Stainless EN 1.430 AISI 304Bearing:SICInstallation: t max amb:122 °FMaximum operating pressure:232.06 pMax pressure at stated temp:232 psi / 232 psi / 232 psi / 232 psi / 17ype of connection:Type of connection:0 val / NFSize of inlet connection:1 1/4 inclSize of outlet connection:1 1/4 inclPressure rating for connection:PN 16Flange size for motor:182TCElectrical data:NEMAMotor standard:NEMAMotor type:112CIE Efficiency class:IE5Rated power - P2:5 HPPower (P2) required by pump:5 HPMains frequency:60 HzRated voltage:3 x 440-4Service factor:1.15Rated current:6.20-5.80Cos phi - power factor:0.90-0.88Rated speed:360-4000Efficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:9925677Controls:	EN-GJL-200 48-25B s steel 01 si 250 °F -4 °F PT(F) h
Impeller:Stainless EN 1.430 AISI 304Bearing:SICInstallation:122 °Ft max amb:122 °FMaximum operating pressure:232.06 pMax pressure at stated temp:232 psi / 232 psi / 232 psi / 232 psi / 17ype of connection:Oval / NFSize of inlet connection:1 1/4 inclSize of outlet connection:1 1/4 inclPressure rating for connection:PN 16Flange size for motor:182TCElectrical data:NEMAMotor standard:NEMAMotor type:112CIE Efficiency class:IE5Rated power - P2:5 HPPower (P2) required by pump:5 HPMains frequency:60 HzRated voltage:3 x 440-4Service factor:1.15Rated current:6.20-5.80Cos phi - power factor:0.90-0.88Rated speed:360-4000Efficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:9925677Controls:100-0.81	s steel 01 si 250 °F -4 °F PT(F) h
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Insulation class (IEC 85): F Motor No: 9925677 Controls:	
Motor No: 9925677 Controls:	
	1
Frequency converter: Built-in	
Pressure sensor: Y	
Others:	
Net weight: 120 lb	
Gross weight: 137 lb	
Shipping volume: 10.1 ft ³	
Shipping volume: 10.1 ft ³	



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