

Submittal Data

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



CRE 32-5 N-G-A-E-HQQE

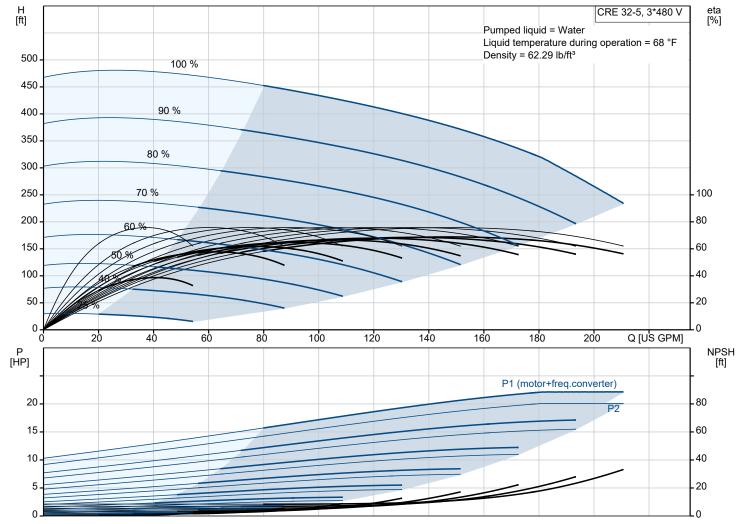
Vertical, multistage centrifugal pump with integrated frequency converter. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

Note! Product picture may differ from actual product

Conditions of Service		
Liquid:	Water	
Temperature:	68 °F	
Specific Gravity:	1.000	

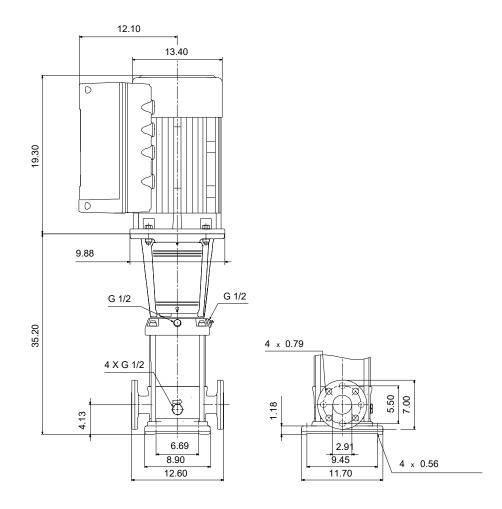
Pump Data		
Max pressure at stated temp:	232 psi / 250 °F	
Liquid temperature range:	-22 248 °F	
Maximum ambient temperature:	104 °F	
Shaft seal:	HQQE	
Product number:	98183605	

Motor Data			
Rated power - P2:	20 HP		
Rated voltage:	460 V		
Mains frequency:	60 Hz		
Enclosure class:	IP55		
Insulation class:	F		
Motor protection:	YES		
Motor type:	160AB		
Eta 1/1:	91.0 %		









Materials:

Base: Cast iron

Base: EN 1563 EN-GJS-500-7 Base: ASTM A536 80-55-06

Impeller: Stainless steel

Impeller: AISI 304 Impeller: EN 1.4301

Material code: A Code for rubber: E

Qty. | Description

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CRE 32-5 N-G-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 98183605

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 ANSI flanges.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

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.

An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The operating panel has indicator lights for "Operation" and "Fault".

Communication with the pump is 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 terminal box holds terminals for these connections:

- pump start/stop input (potential-free contact)
- remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA
- 10 V voltage supply for setpoint potentiometer, Imax = 5 mA
- three analog sensor inputs, 0-10 V, 0(4)-20 mA; the factory-fitted pressure sensor is connected to one of these inputs
- 24 V voltage supply for sensor, Imax = 40 mA
- · one analog output
- · three digital inputs
- two Pt100 inputs
- two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready"
- · RS-485 GENIbus connection
- · interface for Grundfos CIM fieldbus module.

Liquid:

Pumped liquid: Water
Liquid temperature range: -22 .. 248 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical:

Pump speed on which pump data are based: 3497 rpm

Rated flow: 159 US GPM Rated head: 360.9 ft Actual impeller diameter: 4.66 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: Cast iron

EN 1563 EN-GJS-500-7 ASTM A536 80-55-06

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing: SIC Support bearing: Graflon

Installation:

t max amb: 104 °F

Maximum operating pressure: 232.06 psi

Max pressure at stated temp: 232 psi / 250 °F

Qty. | Description

232 psi / -22 °F

Type of connection:
Size of inlet connection:
2 1/2 inch
Size of outlet connection:
2 1/2 inch
Pressure rating for connection:
PN 16
Flange rating inlet:
Flange size for motor:
2 54TC

Electrical data:

Motor standard: NEMA Motor type: 160AB

IE Efficiency class: NEMA Premium / IE3 60Hz

Rated power - P2: 20 HP
Power (P2) required by pump: 20 HP
Mains frequency: 60 Hz
Rated voltage: 3 x 460 V
Service factor: 1.15
Rated current: 26 A
Cos phi - power factor: 0.89

Rated speed: 480-3540 rpm
Efficiency: IE3 91,0%
Motor efficiency at full load: 91.0 %
Number of poles: 2
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F
Motor No: 85901137

Controls:

Frequency converter: Built-in Pressure sensor: Y

Others:

DOE Pump Energy Index VL: 0.44
Net weight: 434 lb
Gross weight: 452 lb
Shipping volume: 29 ft³

