GRUNDFOS

Submittal Data

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

Note! Product picture may differ from actual product

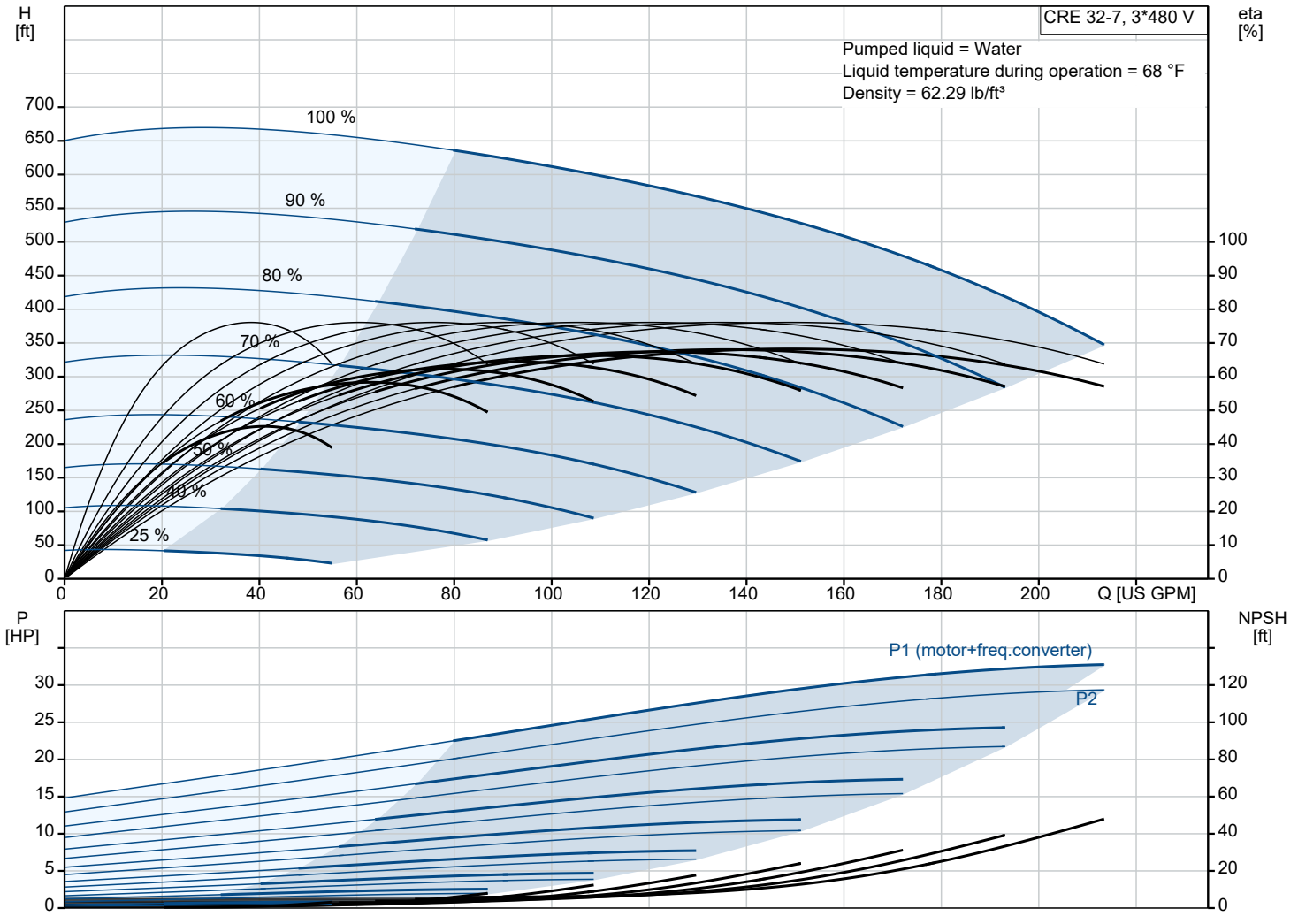
CRE 32-7 N-G-A-E-HQQE

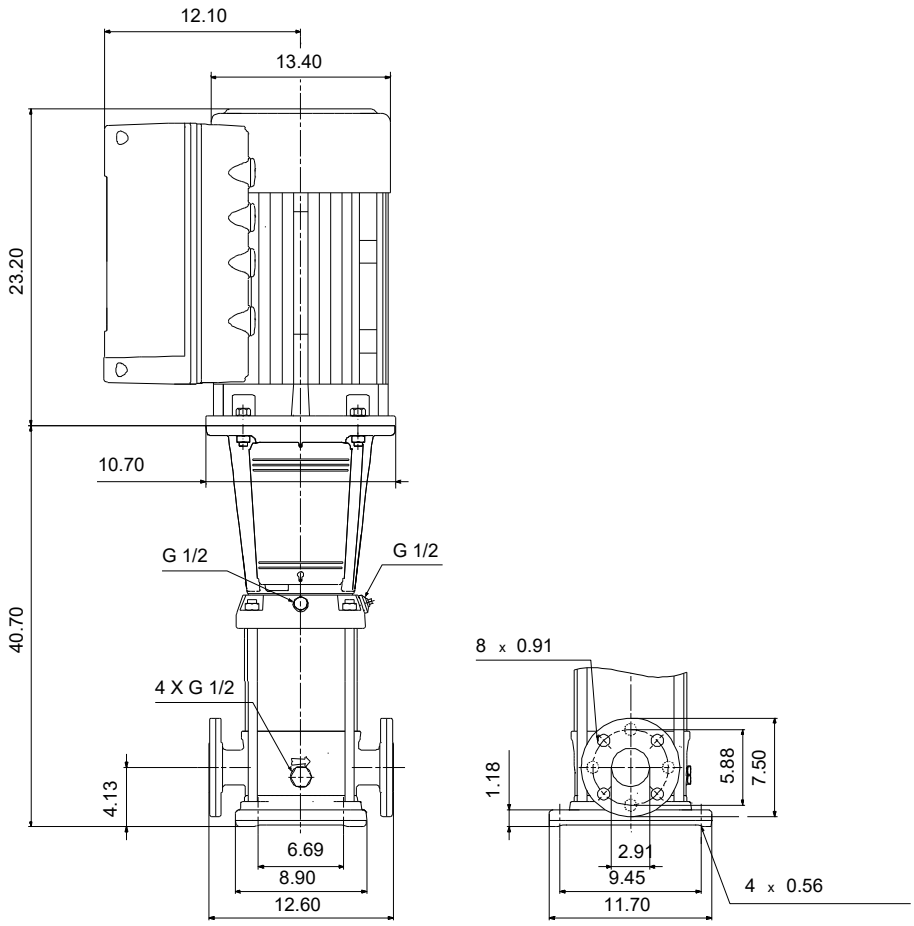
Vertical, multistage centrifugal pump with integrated frequency converter. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

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

Pump Data	
Max pressure at stated temp:	435 psi / 250 °F
Liquid temperature range:	-22 .. 248 °F
Maximum ambient temperature:	104 °F
Shaft seal:	HQQE
Product number:	98183607

Motor Data	
Rated power - P2:	30 HP
Rated voltage:	460 V
Mains frequency:	60 Hz
Enclosure class:	IP55
Insulation class:	F
Motor protection:	YES
Motor type:	180AA
Eta 1/1:	91.7 %





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
1	**CRE 32-7 N-G-A-E-HQQE**

Note! Product picture may differ from actual product

Product No.: 98183607

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:	3541 rpm
Rated flow:	159 US GPM
Rated head:	504.6 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:

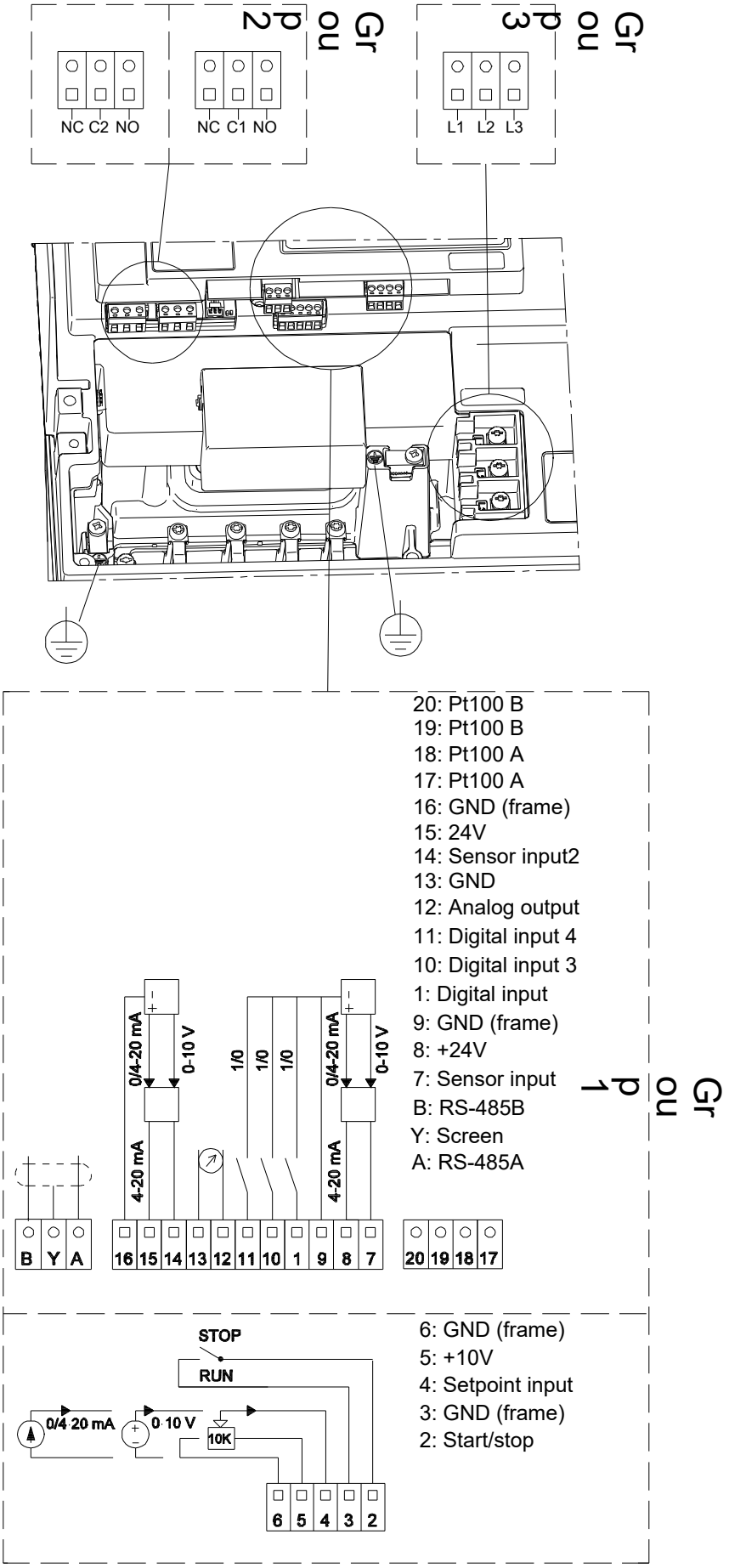
Base:	Cast iron EN 1563 EN-GJS-500-7 ASTM A536 80-55-06
Impeller:	Stainless steel EN 1.4301 AISI 304
Bearing:	SIC
Support bearing:	Graflon

Installation:

t max amb:	104 °F
Maximum operating pressure:	435.11 psi
Max pressure at stated temp:	435 psi / 250 °F

Qty.	Description	
		435 psi / -22 °F
	Type of connection:	ANSI
	Size of inlet connection:	2 1/2 inch
	Size of outlet connection:	2 1/2 inch
	Pressure rating for connection:	PN 40
	Flange rating inlet:	300 lb
	Flange size for motor:	284TC
	Electrical data:	
	Motor standard:	NEMA
	Motor type:	180AA
	IE Efficiency class:	NEMA Premium / IE3 60Hz
	Rated power - P2:	30 HP
	Power (P2) required by pump:	30 HP
	Mains frequency:	60 Hz
	Rated voltage:	3 x 460 V
	Service factor:	1.15
	Rated current:	36.5 A
	Cos phi - power factor:	0.88
	Rated speed:	480-3540 rpm
	Efficiency:	IE3 91,7%
	Motor efficiency at full load:	91.7 %
	Number of poles:	2
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No:	85901139
	Controls:	
	Frequency converter:	Built-in
	Pressure sensor:	Y
	Others:	
	DOE Pump Energy Index VL:	0.44
	Net weight:	503 lb
	Gross weight:	520 lb
	Shipping volume:	39.9 ft³

98183607 CRE 32-7 N-G-A-E-HQQE 60 Hz



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