

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

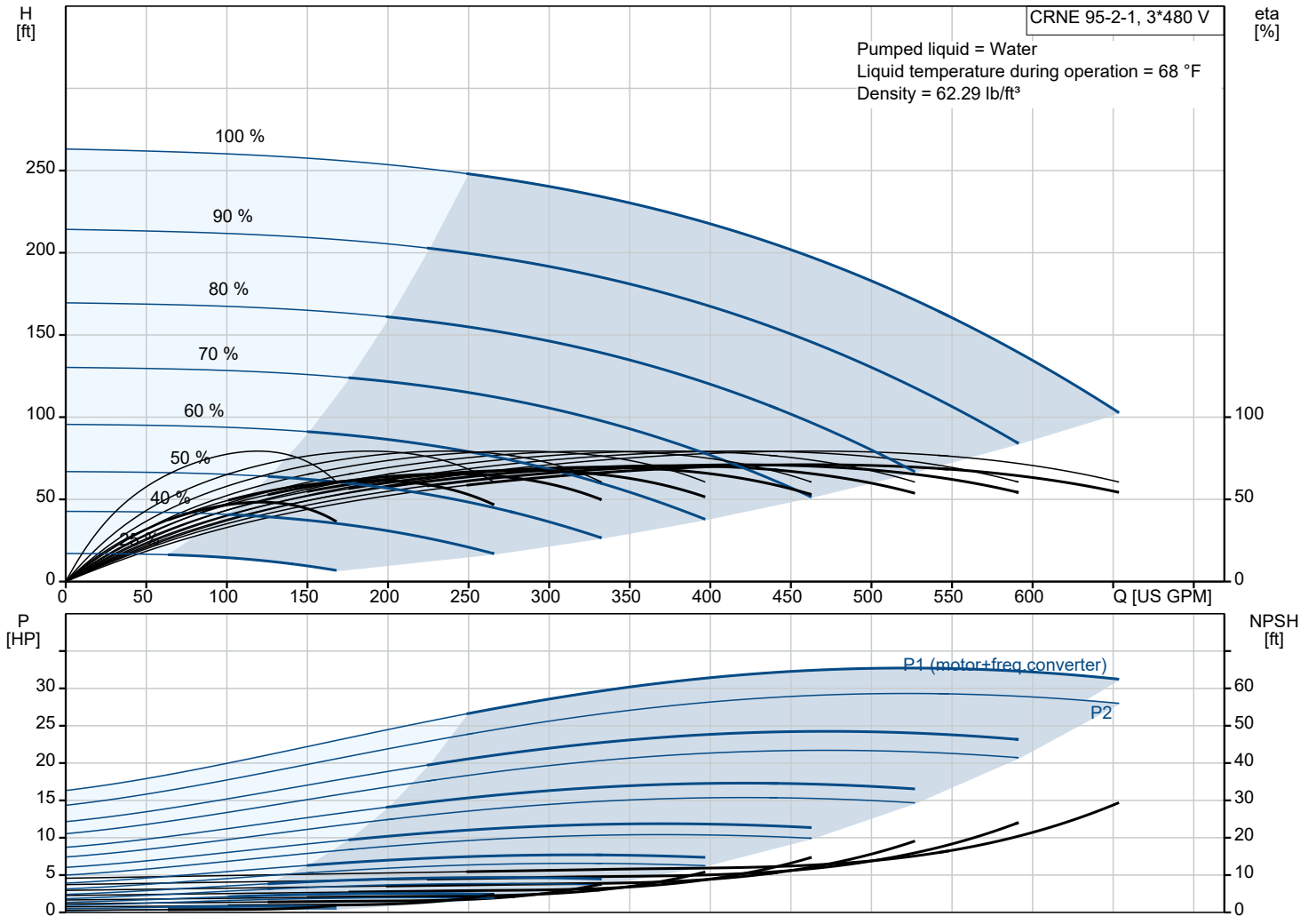


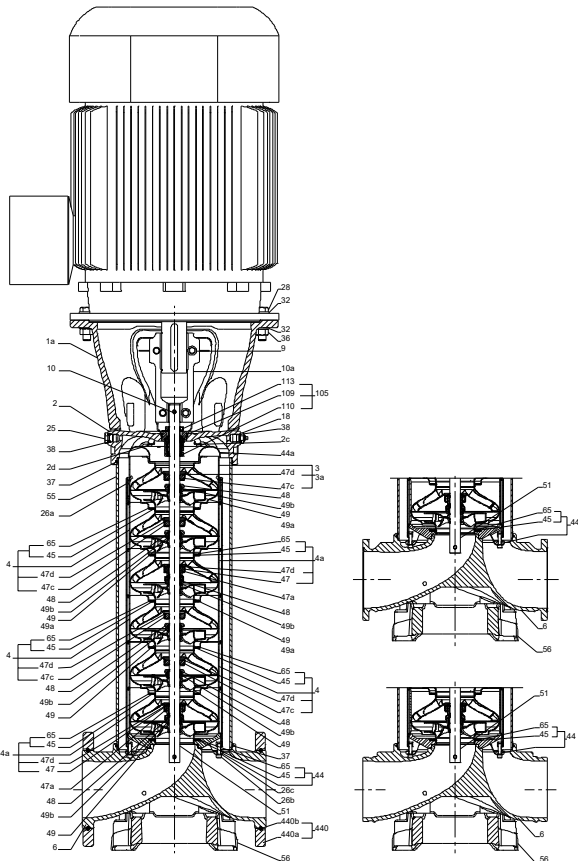
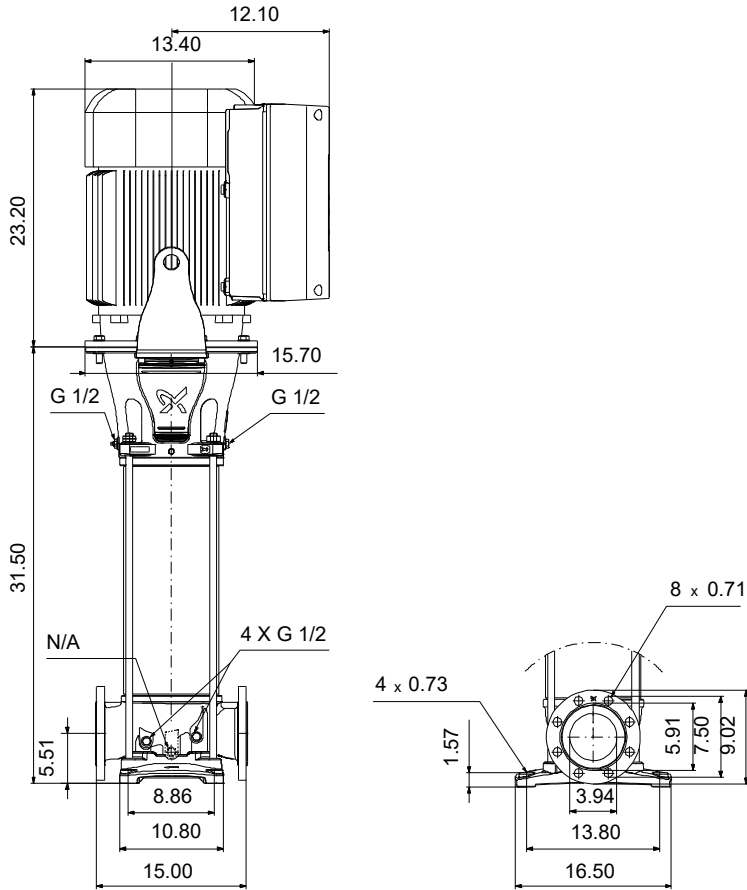
## CRNE 95-2-1 N-G-A-E-HQQE

Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in high-grade stainless steel (EN 1.4401)

Note! Product picture may differ from actual product

Conditions of Service		Pump Data		Motor Data	
Liquid:	Water	Liquid temperature range:	-4 .. 248 °F	Rated power - P2:	30 HP
Temperature:	68 °F	Maximum ambient temperature:	104 °F	Rated voltage:	460 V
Specific Gravity:	1.000	Shaft seal:	HQQE	Mains frequency:	60 Hz
		Product number:	99266505	Enclosure class:	IP55
				Insulation class:	F
				Motor protection:	YES
				Motor type:	180AA
				Eta 1/1:	91.7 %





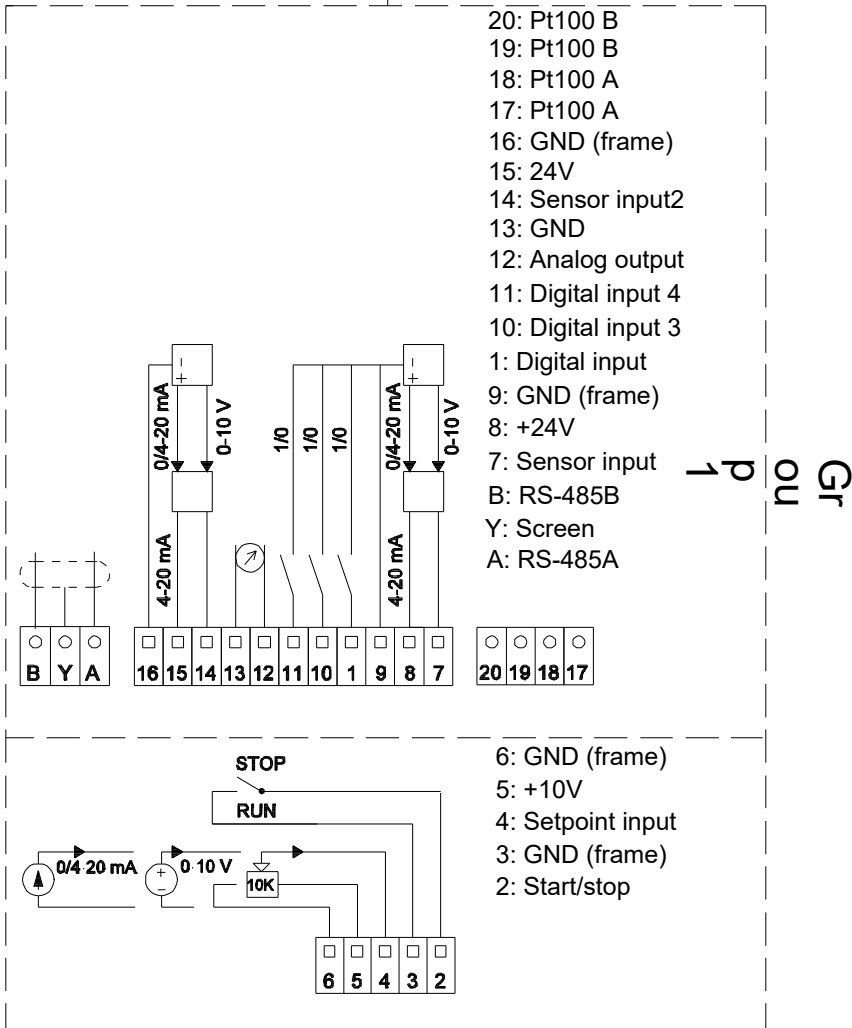
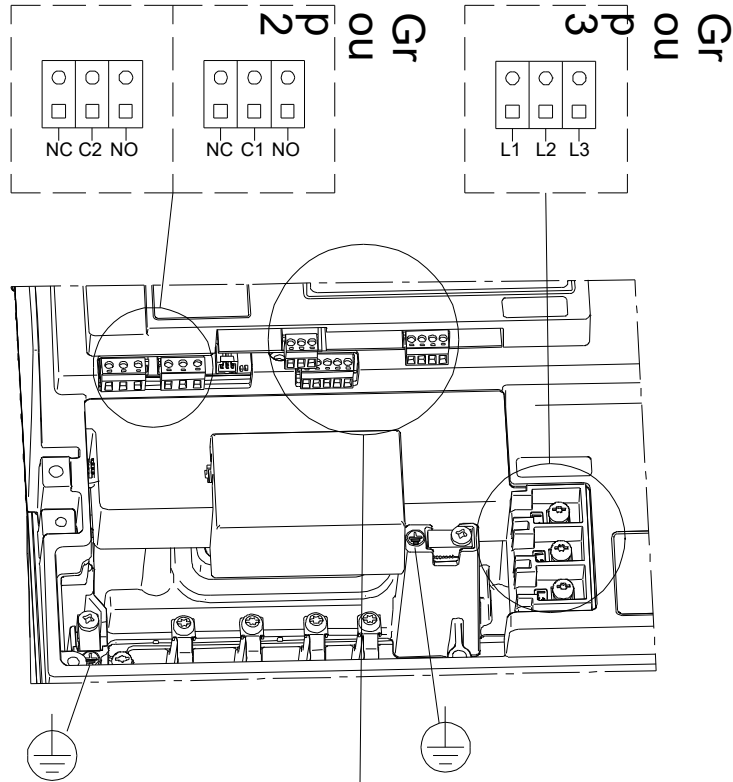
**Materials:**

- Base: Stainless steel
- Base: EN 1.4408
- Base: ASTM A351 CF8M
- Impeller: Stainless steel
- Impeller: AISI 316
- Impeller: EN 1.4401
- Material code: A
- Code for rubber: E

Qty.	Description
1	<p data-bbox="119 85 454 118"><b>CRNE 95-2-1 N-G-A-E-HQQE</b></p> <p data-bbox="119 118 391 141">Product No.: <a href="#">99266505</a></p> <p data-bbox="119 174 1516 253">Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. The Grundfos 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.</p> <p data-bbox="119 264 837 286">The pump is fitted with a 3-phase, fan-cooled asynchronous motor.</p> <p data-bbox="119 297 1524 342">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.</p> <p data-bbox="119 353 1476 398">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".</p> <p data-bbox="119 409 1468 477">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".</p> <p data-bbox="119 499 718 521">The terminal box holds terminals for these connections:</p> <ul data-bbox="159 533 1452 846" style="list-style-type: none"> <li>• pump start/stop input (potential-free contact)</li> <li>• remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA</li> <li>• 10 V voltage supply for setpoint potentiometer, I<sub>max</sub> = 5 mA</li> <li>• three analog sensor inputs, 0-10 V, 0(4)-20 mA; the factory-fitted pressure sensor is connected to one of these inputs</li> <li>• 24 V voltage supply for sensor, I<sub>max</sub> = 40 mA</li> <li>• one analog output</li> <li>• three digital inputs</li> <li>• two Pt100 inputs</li> <li>• two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready"</li> <li>• RS-485 GENibus connection</li> <li>• interface for Grundfos CIM fieldbus module.</li> </ul> <p data-bbox="119 880 199 902">Liquid:</p> <p data-bbox="119 913 558 936">Pumped liquid: Water</p> <p data-bbox="119 947 614 969">Liquid temperature range: -4 .. 248 °F</p> <p data-bbox="119 981 550 1003">Selected liquid temperature: 68 °F</p> <p data-bbox="119 1014 606 1037">Density: 62.29 lb/ft<sup>3</sup></p> <p data-bbox="119 1059 239 1081">Technical:</p> <p data-bbox="119 1093 742 1115">Pump speed on which pump data are based: 3532 rpm</p> <p data-bbox="119 1126 630 1149">Rated flow: 500 US GPM</p> <p data-bbox="119 1160 574 1182">Rated head: 182.1 ft</p> <p data-bbox="119 1193 566 1216">Actual impeller diameter: 5.63 in</p> <p data-bbox="119 1227 574 1249">Pump orientation: Vertical</p> <p data-bbox="119 1261 558 1283">Shaft seal arrangement: Single</p> <p data-bbox="119 1294 566 1317">Code for shaft seal: HQQE</p> <p data-bbox="119 1328 526 1350">Approvals: CE</p> <p data-bbox="119 1361 798 1384">Approvals for drinking water: NSF/ANSI 61, NSF/ANSI 372</p> <p data-bbox="119 1395 686 1417">Curve tolerance: ISO9906:2012 3B</p> <p data-bbox="119 1440 231 1462">Materials:</p> <p data-bbox="119 1473 694 1529">Base: Stainless steel EN 1.4408 ASTM A351 CF8M</p> <p data-bbox="119 1541 646 1619">Impeller: Stainless steel EN 1.4401 AISI 316</p> <p data-bbox="119 1630 582 1653">Bearing: WC/WC</p> <p data-bbox="119 1664 574 1686">Support bearing: Graflon</p> <p data-bbox="119 1697 710 1720">Material certified according to: European standards</p> <p data-bbox="119 1753 247 1776">Installation:</p> <p data-bbox="119 1787 566 1809">t max amb: 104 °F</p> <p data-bbox="119 1821 606 1843">Maximum operating pressure: 232.06 psi</p> <p data-bbox="119 1854 662 1877">Max pressure at stated temp: 232 psi / 250 °F</p> <p data-bbox="119 1888 550 1910">Type of connection: ANSI</p> <p data-bbox="119 1921 558 1944">Size of inlet connection: 4 inch</p> <p data-bbox="119 1955 558 1977">Size of outlet connection: 4 inch</p> <p data-bbox="119 1989 558 2011">Pressure rating for connection: 150 lb</p> <p data-bbox="119 2022 566 2045">Flange size for motor: 286TC</p> <p data-bbox="119 2067 287 2089">Electrical data:</p> <p data-bbox="119 2101 566 2123">Motor standard: NEMA</p> <p data-bbox="119 2134 566 2157">Motor type: 180AA</p> <p data-bbox="119 2168 790 2190">IE Efficiency class: NEMA Premium / IE3 60Hz</p>

Qty.	Description
	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: 0.45
	Net weight: 593 lb
	Gross weight: 853 lb
	Shipping volume: 44.2 ft <sup>3</sup>
	Thrust handling device: N

# 99266505 CRNE 95-2-1 N-G-A-E-HQQE 60 Hz



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