

Submittal Data

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

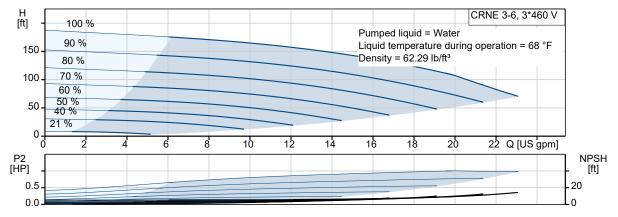


CRNE 3-6 N-FGJ-A-E-HQQE

Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in stainless steel (EN 1.4301)

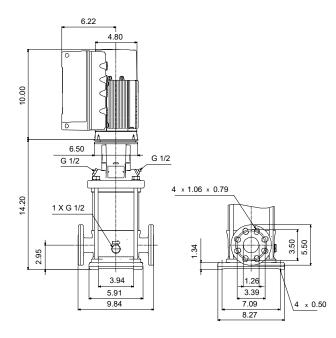
Product photo could vary from the actual product

Conditions of Service		Pump Data	Motor Data		
Efficiency:		Max pressure at stated temperature:	363 psi / 250 °F	Rated power - P2:	1 HP
Liquid:	Water	Liquid temperature range:	-4 248 °F	Rated voltage:	440-480 V
Temperature:	68 °F	Maximum ambient temperature:	122 °F	Main frequency:	60 Hz
NPSH required:	ft	Approvals:	CURUS,NSF/ANSI 61	Enclosure class:	IP55
Specific Gravity:	1.000	Shaft seal:	HQQE	Insulation class:	F
		Product number:	99340848	Motor protection:	ELEC
				Motor type:	80A
				Eff. 1/1:	86.4 %



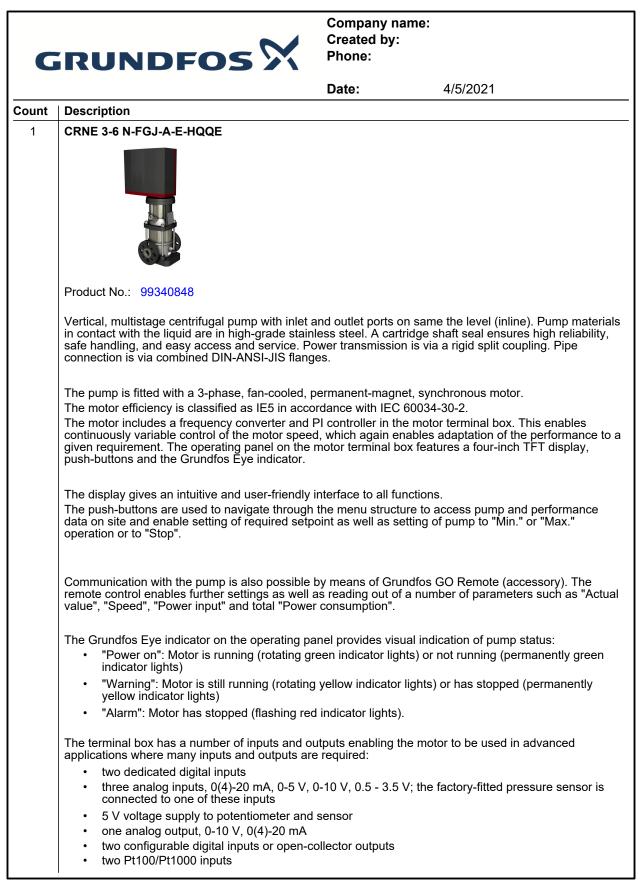
Submittal Data





Materials:

Base:	Stainless steel
Base:	EN 1.4408
Base:	AISI 316
Impeller:	Stainless steel
Impeller:	AISI 316
Impeller:	EN 1.4401
Material code:	А
Code for rubber:	E

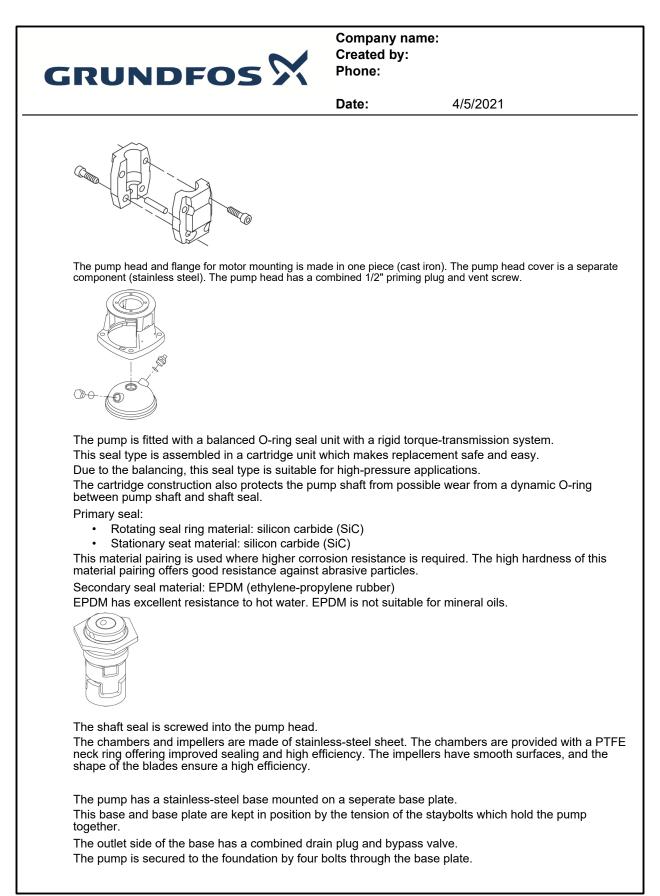


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4/5/2021 Date: Count Description LiqTec, dry-running protection sensor input Grundfos Digital Sensor input and output 24 V voltage supply for sensors two signal-relay outputs (potential-free contacts) **GENIbus** connection interface for Grundfos CIM fieldbus module. Further product details The pump is equipped with a pressure sensor registering pump outlet pressure and enabling controlled pump operation based on constant pressure. The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator. The display gives an intuitive and user-friendly interface to all functions. The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well as setting of pump to "Min." or "Max.' operation or to "Stop". Communication with the pump is also 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 Grundfos Eye indicator on the operating panel provides visual indication of pump status: "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights) "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) "Alarm": Motor has stopped (flashing red indicator lights). Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements: 1) Alkaline-based cleaning. 2) Zinc phosphating. 3) Cathodic electro-deposition. 4) Curing to a dry film thickness 18-22 my m. The colour code for the finished product is NCS 9000/RAL 9005. Pump A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.

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Count

Description

Company name: Created by: Phone:

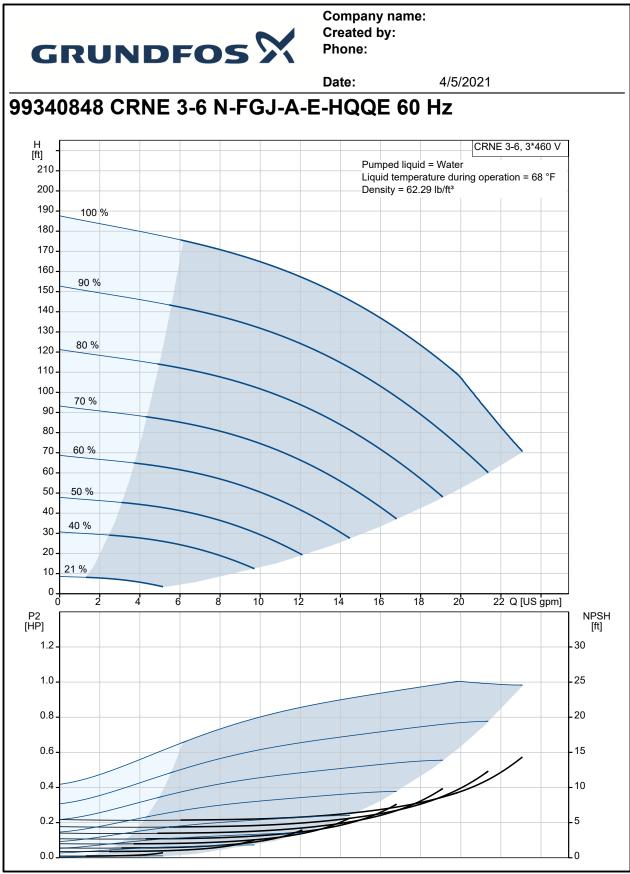
Date:

4/5/2021

The flanges and base are cast in one piece and prepared for connection by means of DIN, ANSI or JIS. Motor The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with tapped-hole flange (FT). Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II). Electrical tolerances comply with IEC 60034. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2. The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions. **Technical data** Liquid: Pumped liquid: Water Liquid temperature range: -4 .. 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft3 Technical: Rated pump speed: 3484 rpm Rated flow: 15.4 US gpm Rated head: 137.5 ft Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CURUS, NSF/ANSI 61 Curve tolerance: ISO9906:2012 3B Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Bearing: SIC SIC Installation: Maximum ambient temperature: 122 °F Maximum operating pressure: 362.59 psi Max pressure at stated temperature: 363 psi / 250 °F 363 psi / -4 °F Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 Size of outlet connection: DN 25/32 Pressure rating for connection: PN 25

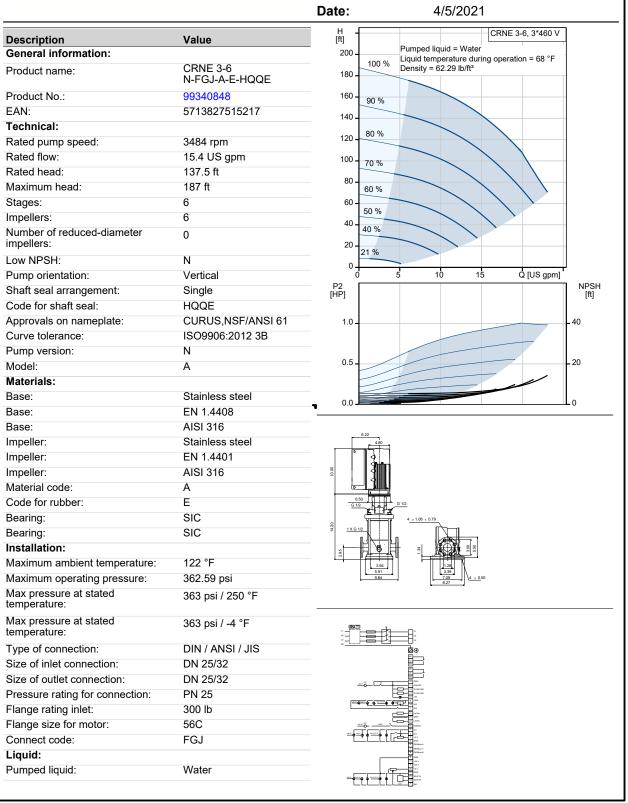


			Date:	4/5/2021	
Count	Description				
	Flange rating inlet:	300 lb			
	Flange size for motor:	56C			
	Electrical data:				
	Motor standard:	NEMA			
	Motor type:	80A			
	IE Efficiency class:	IE5			
	Rated power - P2:	1 HP			
	Power (P2) required by pump:	1 HP			
	Main frequency:	60 Hz			
	Rated voltage:	3 x 440-480 V			
	Service factor:	1.25			
	Rated current:	1.65 A			
	Cos phi - power factor:	0.73			
	Rated speed:	360-4000 rpm			
	IE efficiency:	86.4%			
	Motor efficiency at full load:	86.4 %			
	Enclosure class (IEC 34-5):	IP55			
	Insulation class (IEC 85):	F			
	Motor Number:	99256782			
	Controls:				
	Frequency converter:	Built-in			
	Pressure sensor:	Y			
	Others:				
	Net weight:	63.5 lb			
	Gross weight:	74.6 lb			
	Shipping volume:	4.94 ft ³			
	Country of origin:	US			
	Custom tariff no.:	8413.70.2040			
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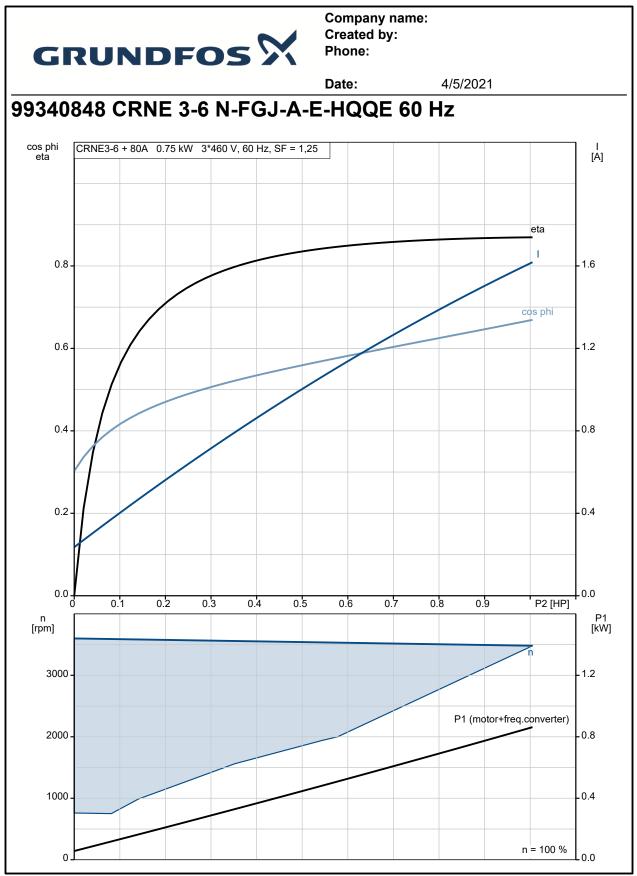




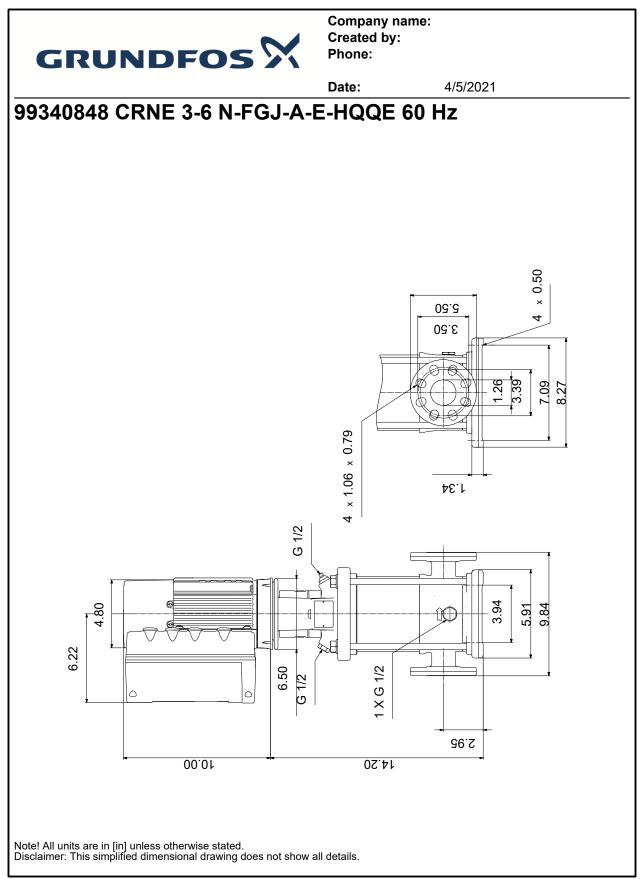
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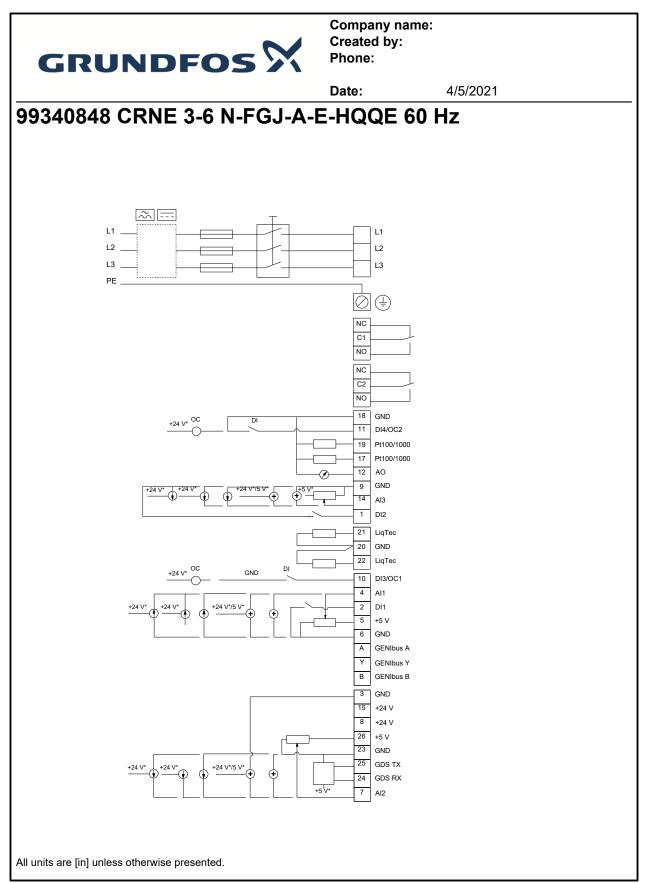
		Date:	4/5/2021
Description	Value		
Liquid temperature range:	-4 248 °F		
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³		
Electrical data:			
Motor standard:	NEMA		
Motor type:	80A		
IE Efficiency class:	IE5		
Rated power - P2:	1 HP		
Power (P2) required by pump:	1 HP		
Main frequency:	60 Hz		
Rated voltage:	3 x 440-480 V		
Service factor:	1.25		
Rated current:	1.65 A		
Cos phi - power factor:	0.73		
Rated speed:	360-4000 rpm		
IE efficiency:	86.4%		
Motor efficiency at full load:	86.4 %		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protection:	ELEC		
Motor Number:	99256782		
Controls:			
Control panel:	Graphical		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Pressure sensor:	Y		
Others:			
Net weight:	63.5 lb		
Gross weight:	74.6 lb		
Shipping volume:	4.94 ft ³		
Config. file no:	98498982		
Country of origin:	US		
Custom tariff no.:	8413.70.2040		



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