

## **Submittal Data**

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



### CRN 255-3 A-G-A-E-HQQE

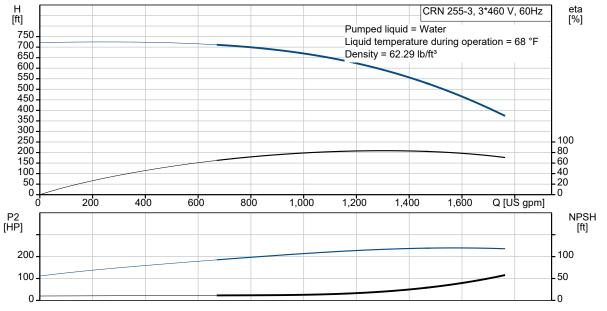
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. Pump materials in contact with the liquid are in high-grade stainless steel (EN 1.4401)

Product photo could vary from the actual product

Conditions of Service	
Efficiency:	
Liquid:	Water
Temperature:	68 °F
NPSH required:	ft
Specific Gravity:	1.000

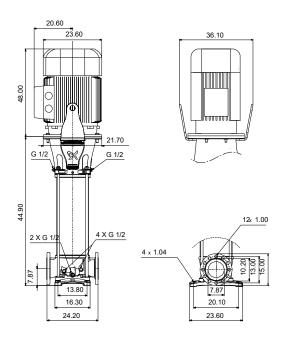
Pump Data	
Liquid temperature range:	-40 248 °F
Maximum ambient temperature:	104 °F
Shaft seal:	HQQE
Product number:	99145529

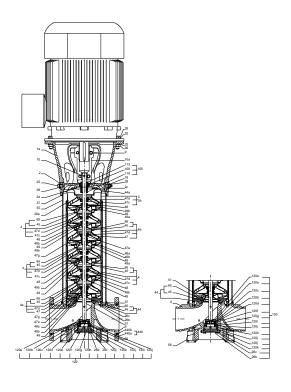
Motor Data	
Rated power - P2:	251 HP
Rated voltage:	460 V
Main frequency:	60 Hz
Enclosure class:	IP55
Insulation class:	F
Motor protection:	NONE
Motor type:	WEG
Eff. 1/1:	95.8 %





# **Submittal Data**





### 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



**Date:** 1/26/2022

Count | Description

CRN 255-3 A-G-A-E-HQQE



Product photo could vary from the actual product

Product No.: 99145529

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. A built-in thrust-handling device absorbs hydraulic axial forces which enables the use of a standard motor.

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.

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

#### Further product details

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.

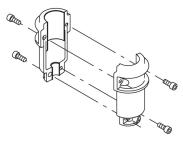
The entire process consists of these elements:

- 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 long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



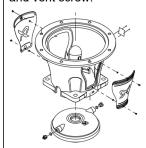


**Date:** 1/26/2022

#### Count

#### Description

The motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and vent screw.



The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system.

This seal type is assembled in a cartridge unit which makes replacement safe and easy.

Due to the balancing, this seal type is suitable for high-pressure applications.

The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.

#### Primary seal:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PEEK neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

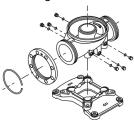
The pump has a stainless-steel base mounted on a separate cast-iron base plate.

The base and base plate are kept in position by the tension of the staybolts which hold the pump together.

Both the inlet and the outlet side of the base have two pressure gauge tappings.

The pump is secured to the foundation by four bolts through the base plate.

The flanges are fastened to the base by means of locking rings.





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Count Description

#### Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II).

Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as premium efficiency in accordance with EISA2007.

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing.

#### Technical data

Liquid:

Pumped liquid: Water Liquid temperature range: -40 .. 248 °F 68 °F Selected liquid temperature: 62.29 lb/ft3 Density:

Technical:

Rated pump speed: 3576 rpm Rated flow: 1350 US gpm Rated head: 588.6 ft Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: **HQQE** 

Approvals for drinking water: NSF/ANSI 61,NSF/ANSI 372

Curve tolerance: ISO9906:2012 3B

Materials:

Impeller:

Bearing:

Base: Stainless steel

EN 1.4408

ASTM A351 CF8M Stainless steel

EN 1.4401 **AISI 316** 

WC/WC Thrust handling device: SiC/WC

Material certified according to: European standards

Installation:

t max amb: 104 °F Maximum operating pressure: 362.59 psi

Max pressure at stated temperature: 363 psi / 250 °F

Type of connection: ANSI Size of suction port: 8 inch Size of outlet port: 8 inch Pressure rating for connection: 300 lb



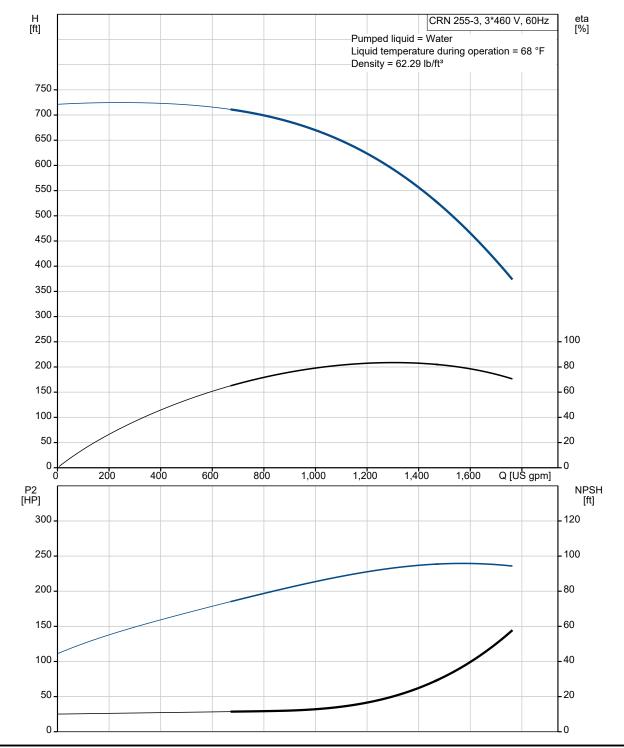
**Date:** 1/26/2022

		Dutc.	1/20/2022
Count	Description		
	Flange size for motor:	447TSD	
	Floatrical data		
	Electrical data: Motor standard:	NEMA	
	Motor type:	WEG	
	IE Efficiency class:	IE3 / NEMA Premium	
	Rated power - P2:	251 HP	
	Power (P2) required by pump:	251 HP	
	Main frequency:	60 Hz	
	Rated voltage:	3 x 460 V	
	Service factor:	1.15	
	Rated current:	269 A	
	Starting current:	670 %	
	Cos phi - power factor:	0.90	
	Rated speed:	3573 rpm	
	IE efficiency:	IE3 95,8%	
	Motor efficiency at full load:	95.8 %	
	Motor efficiency at 3/4 load:	95.8 %	
	Motor efficiency at 1/2 load:	95.4 %	
	Number of poles:	2	
	Enclosure class (IEC 34-5): Insulation class (IEC 85):	IP55 F	
	Motor Number:	99883220	
	Motor Number.	99003220	
	Controls:		
	Frequency converter:	NONE	
	Others:		
	Net weight:	3260 lb	
	Gross weight:	3740 lb	
	Shipping volume:	138 ft³	
	Thrust handling device:	Υ	



**Date:** 1/26/2022

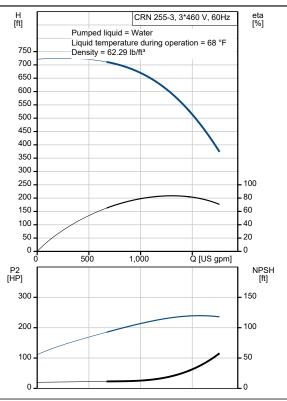
### 99145529 CRN 255-3 A-G-A-E-HQQE 60 Hz

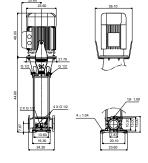


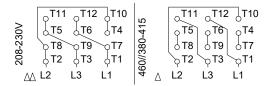


**Date:** 1/26/2022

Description	Value	Ī
General information:		-
Product name:	CRN 255-3 A-G-A-E-HQQE	
Product No.:	99145529	
EAN:	5712607599546	
Technical:		
Rated pump speed:	3576 rpm	
Rated flow:	1350 US gpm	
Rated head:	588.6 ft	
Maximum head:	713.3 ft	
Stages:	3	
Impellers:	3	
Number of reduced-diameter impellers:	0	
Low NPSH:	N	
Pump orientation:	Vertical	
Shaft seal arrangement:	Single	
Code for shaft seal:	HQQE	
Approvals for drinking water:	NSF/ANSI 61,NSF/ANSI 372	
Curve tolerance:	ISO9906:2012 3B	
Pump version:	A	
Model:	A	
Cooling:	IC 411	
Materials:		4
Base:	Stainless steel	
Base:	EN 1.4408	
Base:	ASTM A351 CF8M	
Impeller:	Stainless steel	
Impeller:	EN 1.4401	
Impeller:	AISI 316	
Material code:	A	
Code for rubber:	Е	
Bearing:	WC/WC	
Thrust handling device:	SiC/WC	
Material certified according to:	European standards	
Installation:		
t max amb:	104 °F	_
Maximum operating pressure:	362.59 psi	
Max pressure at stated temperature:	363 psi / 250 °F	
Type of connection: Size of suction port:	ANSI	
•	8 inch	
Size of outlet port:		
Pressure rating for connection:	300 lb	
Flange size for motor:	447TSD	
Connect code:	G	
Liquid: Pumped liquid:	Water	









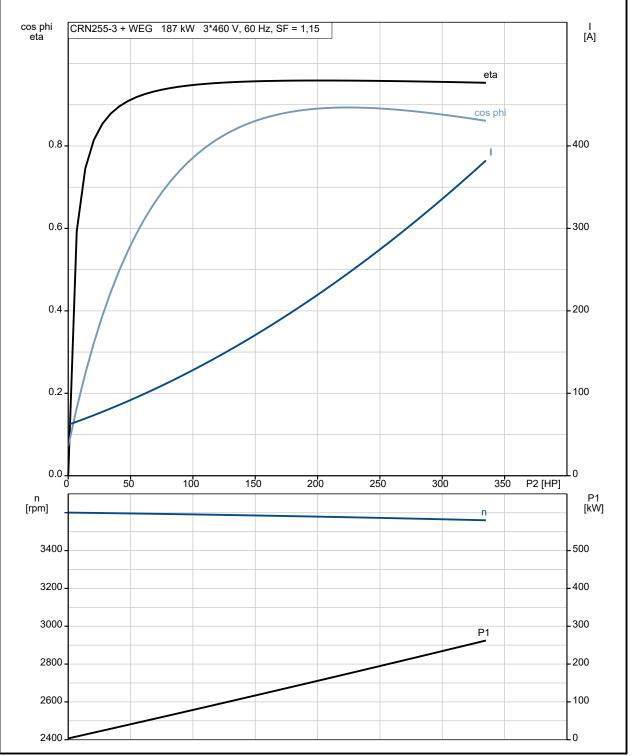
**Date:** 1/26/2022

Liquid temperature range: -40 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³  Electrical data:  Motor standard: NEMA Motor type: WEG IE Efficiency class: IE3 / NEMA Premium Rated power - P2: 251 HP Power (P2) required by pump: 251 HP Main frequency: 60 Hz Rated voltage: 3 x 460 V Service factor: 1.15 Rated current: 269 A Starting current: 670 % Full load SF current: 309 A Cos phi - power factor: 0.90 Rated speed: 3573 rpm IE efficiency at full load: 95.8 % Motor efficiency at 1/2 load: 95.4 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: NONE Motor Stapping volume: 138 ft³ Thrust handling device: Y		
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Motor Number: 99883220  Controls: Frequency converter: NONE  Others: Net weight: 3260 lb Gross weight: 3740 lb Shipping volume: 138 ft³	Insulation class (IEC 85):	F
Controls: Frequency converter:  Others:  Net weight:  Gross weight:  Shipping volume:  Shipping volume:  NONE  NONE  3260 lb  3740 lb  Shipping volume:  138 ft³	Built-in motor protection:	NONE
Frequency converter: NONE  Others:  Net weight: 3260 lb  Gross weight: 3740 lb  Shipping volume: 138 ft³	Motor Number:	99883220
Others:  Net weight: 3260 lb  Gross weight: 3740 lb  Shipping volume: 138 ft³	Controls:	
Net weight: 3260 lb Gross weight: 3740 lb Shipping volume: 138 ft³	Frequency converter:	NONE
Gross weight: 3740 lb Shipping volume: 138 ft³	Others:	
Shipping volume: 138 ft <sup>s</sup>	Net weight:	3260 lb
•	Gross weight:	3740 lb
Thrust handling device: Y	Shipping volume:	138 ft³
	Thrust handling device:	Υ



**Date:** 1/26/2022

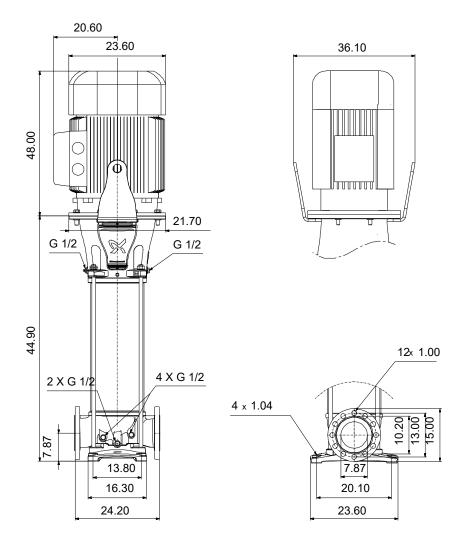
# 99145529 CRN 255-3 A-G-A-E-HQQE 60 Hz





**Date:** 1/26/2022

# 99145529 CRN 255-3 A-G-A-E-HQQE 60 Hz



Note! All units are in [in] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.

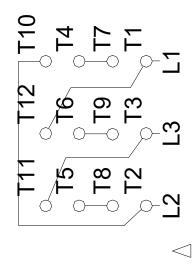


Company name: Created by:

Phone:

**Date:** 1/26/2022

# 99145529 CRN 255-3 A-G-A-E-HQQE 60 Hz



914-088//094

All units are [in] unless otherwise presented.