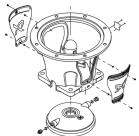




Date:

3/22/2019



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)

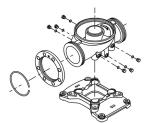
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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.



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 has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions. Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.



3/22/2019

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.

60Hz

Date:

Technical data

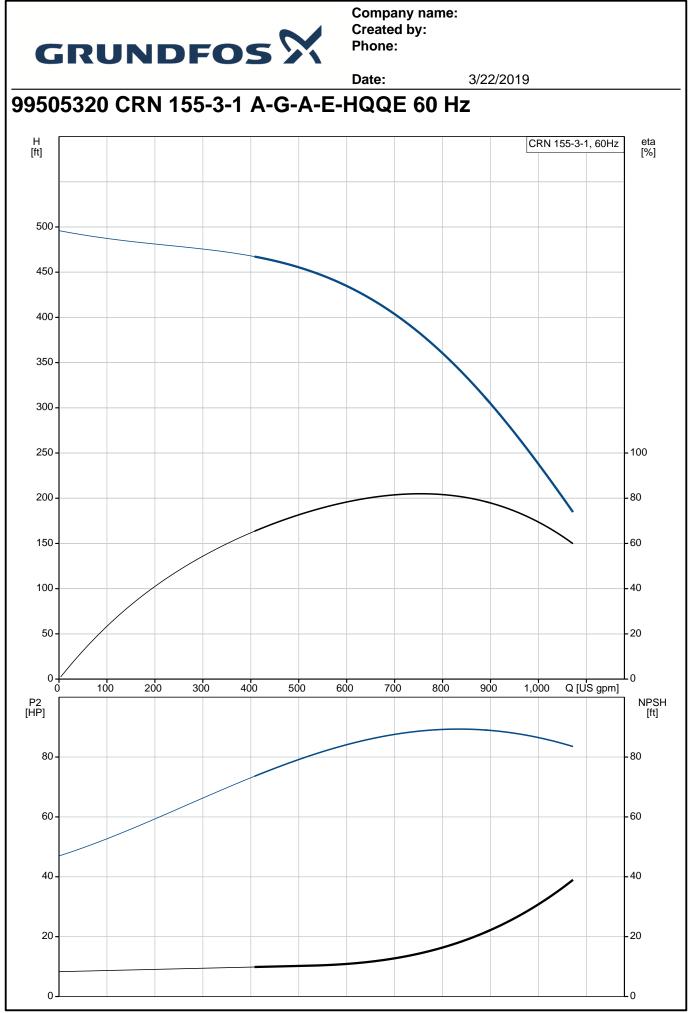
Controls: Frequency converter:	NONE
Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operat Density:	Water -40 248 °F tion: 68 °F 62.29 lb/ft ³
Technical: Rated pump speed: Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Curve tolerance:	3569 rpm 820 US gpm 349.4 ft Vertical Single HQQE ISO9906:2012 3B
Materials: Base:	Stainless steel EN 1.4408
Impeller:	ASTM A351 CF8M Stainless steel EN 1.4401 AISI 316
Bearing: Support bearing: Thrust handling device: Material certified according to:	WC/WC Graflon SiC/WC European standards
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temperat	580 psi
Type of connection: Size of suction port: Size of outlet port: Pressure rating for pipe connecti Flange size for motor:	ANSI 6 inch 6 inch on: 300 lb
Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Main frequency: Rated voltage: Service factor: Rated current:	NEMA Baldor NEMA Premium / IE3 100 HP 100 HP 60 Hz 3 x 460 V 1.15 110 A
Cos phi - power factor: Rated speed:	0.90 3565 rpm

IE3 95%

IE efficiency:



		Date:	3/22/2019
unt	Description		
	Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85):	2 55 Dust/Jetting F	
	Others: Net weight: Gross weight: Shipping volume: Thrust handling device:	1920 lb 2400 lb 138 ft ³ Y	
	Approvals:	pprovals: NSF/ANSI 61, NSF/ANSI 372	





Description

Product name:

Product No .:

Technical: Rated pump speed:

Rated flow:

Rated head:

Head max:

Stages:

Impellers:

impellers: Low NPSH:

Pump orientation:

Code for shaft seal:

Curve tolerance:

Pump version:

Model:

Base:

Impeller:

Bearing: Support bearing:

Material code:

Installation:

Code for rubber:

Thrust handling device:

Type of connection:

Size of suction port:

Flange size for motor:

Liquid temperature range:

Size of outlet port:

Connect code:

Electrical data:

Motor standard:

IE Efficiency class: Rated power - P2:

Main frequency:

Rated voltage:

Power (P2) required by pump:

Motor type:

Liquid: Pumped liquid:

Density:

Material certified according to:

Maximum ambient temperature:

Pressure rating for pipe connection:

Maximum operating pressure:

Coolina: Materials:

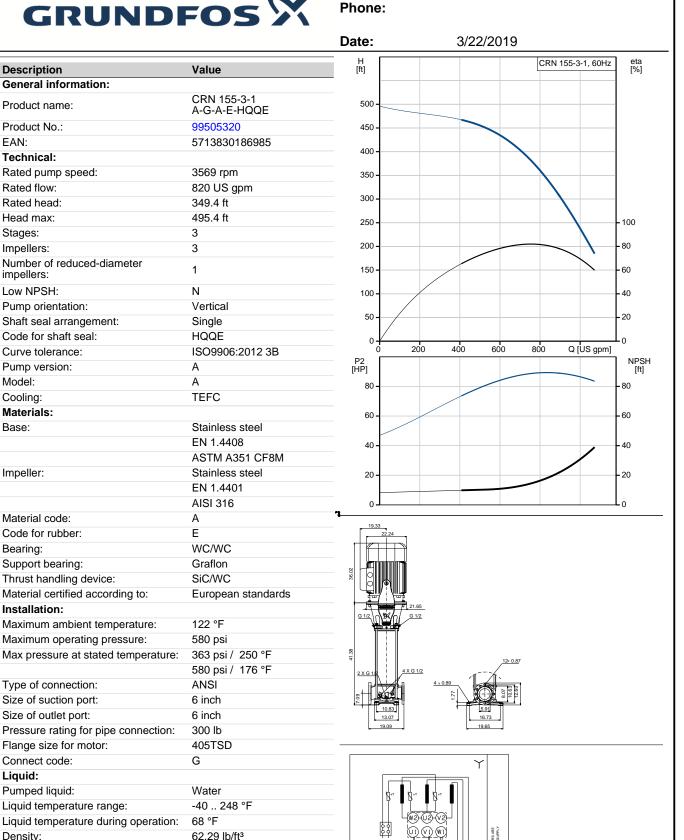
Shaft seal arrangement:

Number of reduced-diameter

EAN:

General information:

Company name: Created by:



TO AN

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∉

Printed from Grundfos Product Center [2019.01.000]

NEMA

Baldor

100 HP

100 HP

3 x 460 V

60 Hz

NEMA Premium / IE3 60Hz



3/22/2019

Date: Description Value Service factor: 1.15 Rated current: 110 A Load current: 126/63 A Cos phi - power factor: 0.90 Rated speed: 3565 rpm IE efficiency: IE3 95% Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F PTC Motor protection: Motor Number: 99038979 Controls: Frequency converter: NONE Others: Net weight: 1920 lb Gross weight: 2400 lb Shipping volume: 138 ft³ Thrust handling device: Y NSF/ANSI 61, NSF/ANSI Approvals: 372

