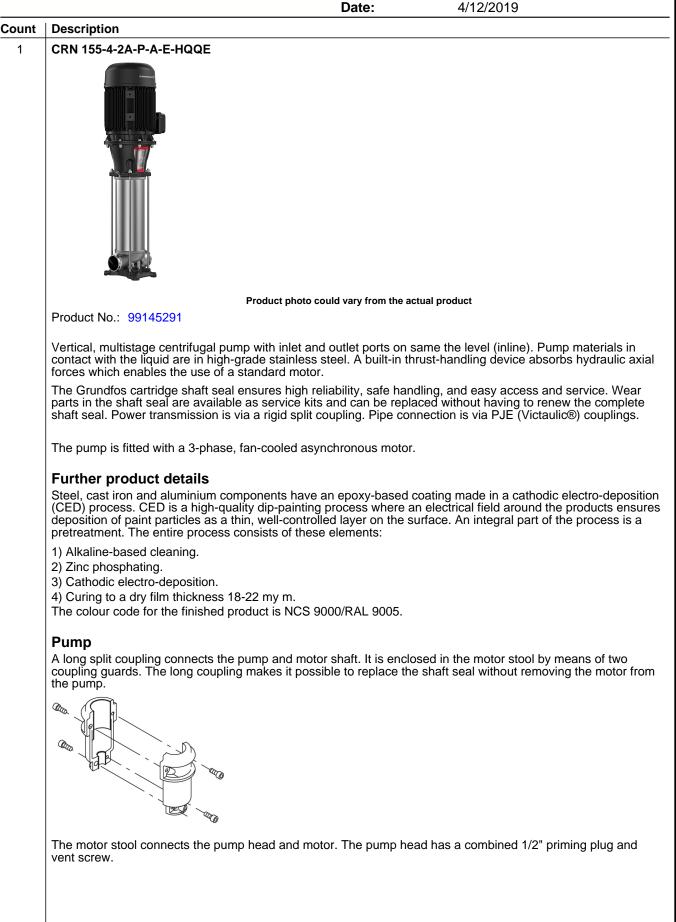


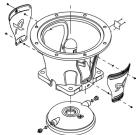
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The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. 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)

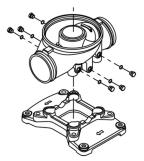
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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 base is prepared for connection by means of PJE (Victualic®) couplings.



## 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.



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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.

Date:

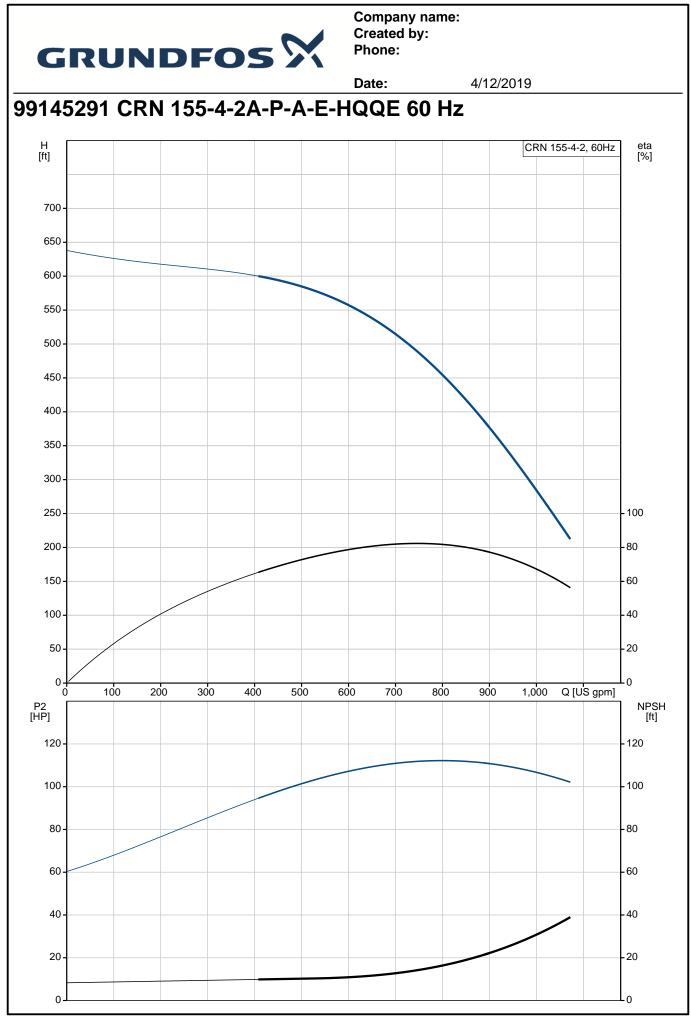
A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing.

## **Technical data**

Controls: Frequency converter:	NONE
<b>Liquid:</b> Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -40 248 °F 68 °F 62.29 lb/ft <sup>3</sup>
<b>Technical:</b> Rated pump speed: Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Curve tolerance:	3569 rpm 820 US gpm 439.3 ft Vertical Single HQQE ISO9906:2012 3B
<b>Materials:</b> Base:	Stainless steel
Dase.	EN 1.4408 ASTM A351 CF8M
Impeller:	Stainless steel EN 1.4401
Bearing: Support bearing: Thrust handling device: Material certified according to:	AISI 316 WC/WC Graflon SiC/WC European standards
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated tempera Type of connection:	580.15 psi
Size of suction port: Size of outlet port:	6 inch
Pressure rating for pipe connect Flange size for motor:	tion: 1000 psi 444TSD
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 60Hz 125 HP 125 HP 60 Hz 3 x 460 V 1.15 137 A

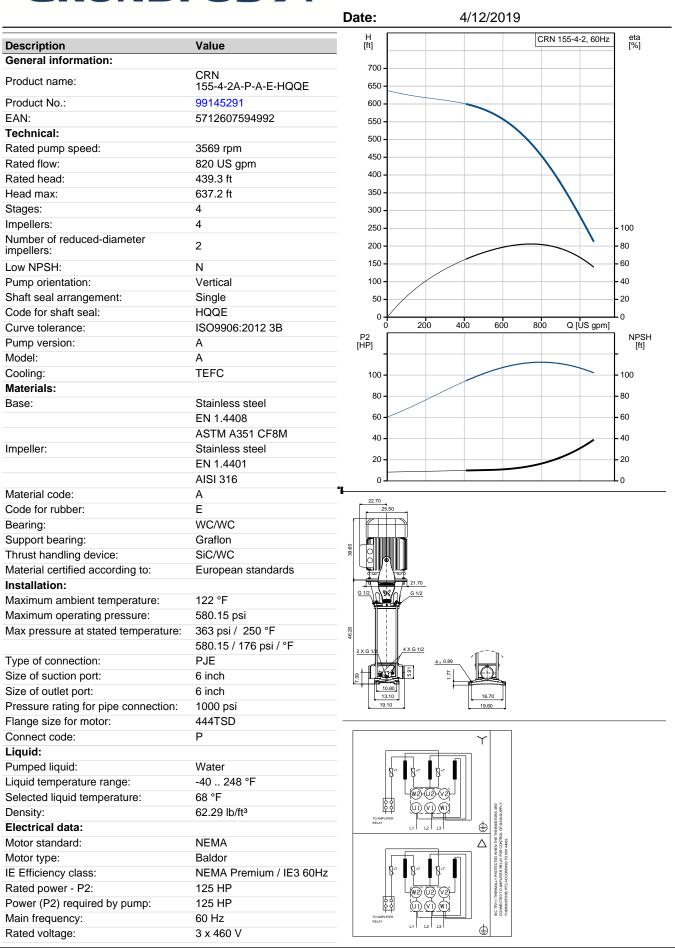


		D	ate:	4/12/2019	
Count	Description				
	Cos phi - power factor: Rated speed: IE efficiency: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor Number:	0.90 3565 rpm IE3 95.4% 2 55 Dust/Jetting F 99038981			
	Others:				
	Net weight: Gross weight: Shipping volume: Thrust handling device:	2340 lb 2820 lb 138 ft <sup>3</sup> Y NSE/ANSI 61_NSE/AI	NSI 372		
	Approvals:	NSF/ANSI 61, NSF/AI	NSI 372		



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4/12/2019

		Date:
Description	Value	
Service factor:	1.15	-
Rated current:	137 A	
Load current:	158/79 A	
Cos phi - power factor:	0.90	
Rated speed:	3565 rpm	
IE efficiency:	IE3 95.4%	
Number of poles:	2	
Enclosure class (IEC 34-5):	55 Dust/Jetting	
Insulation class (IEC 85):	F	
Motor protection:	PTC	
Motor Number:	99038981	
Controls:		
Frequency converter:	NONE	
Others:		
Net weight:	2340 lb	
Gross weight:	2820 lb	
Shipping volume:	138 ft <sup>3</sup>	
Thrust handling device:	Y	
Approvals:	NSF/ANSI 61, NSF/ANSI 372	

