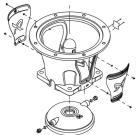




Date:

4/15/2019



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)

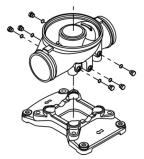
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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 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.



4/15/2019

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.

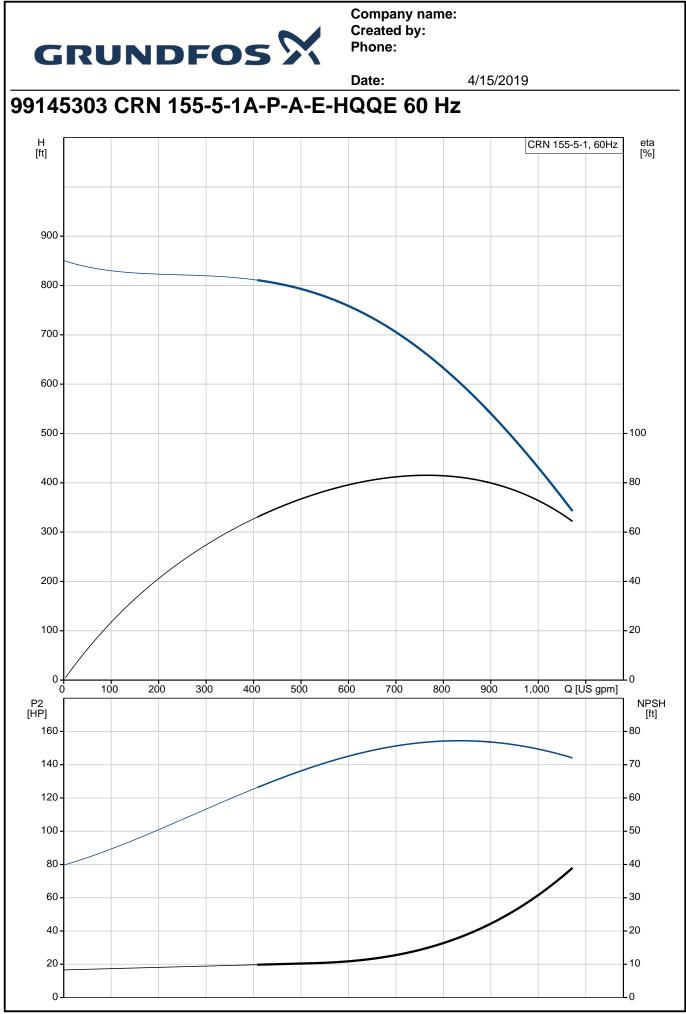
Technical data

Controls: Frequency converter:	NONE
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -40 248 °F 68 °F 62.29 lb/ft³
Technical: Rated pump speed: Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Curve tolerance:	3574 rpm 820 US gpm 617.2 ft Vertical Single HQQE ISO9906:2012 3B
Materials:	
Base:	Stainless steel EN 1.4408
Impeller:	ASTM A351 CF8M Stainless steel EN 1.4401
Bearing:	AISI 316 WC/WC
Support bearing:	Graflon
Thrust handling device: Material certified according to:	SiC/WC European standards
-	
Installation: Maximum ambient temperature:	122 °F
Maximum operating pressure:	580.15 psi
Max pressure at stated tempera	ture: 363 psi / 250 °F 580.15 / 176 psi / °F
Type of connection:	PJE
Size of suction port:	6 inch
Size of outlet port:	6 inch
Pressure rating for pipe connec Flange size for motor:	tion: 1000 psi 445TSD
riange size for motor.	440100
Electrical data: Motor standard:	NEMA
Motor type:	Baldor
IE Efficiency class:	NEMA Premium / IE3 60Hz
Rated power - P2:	150 HP
Power (P2) required by pump: Main frequency:	150 HP 60 Hz
Rated voltage:	3 x 460 V
Service factor:	1.15
Rated current:	166 A

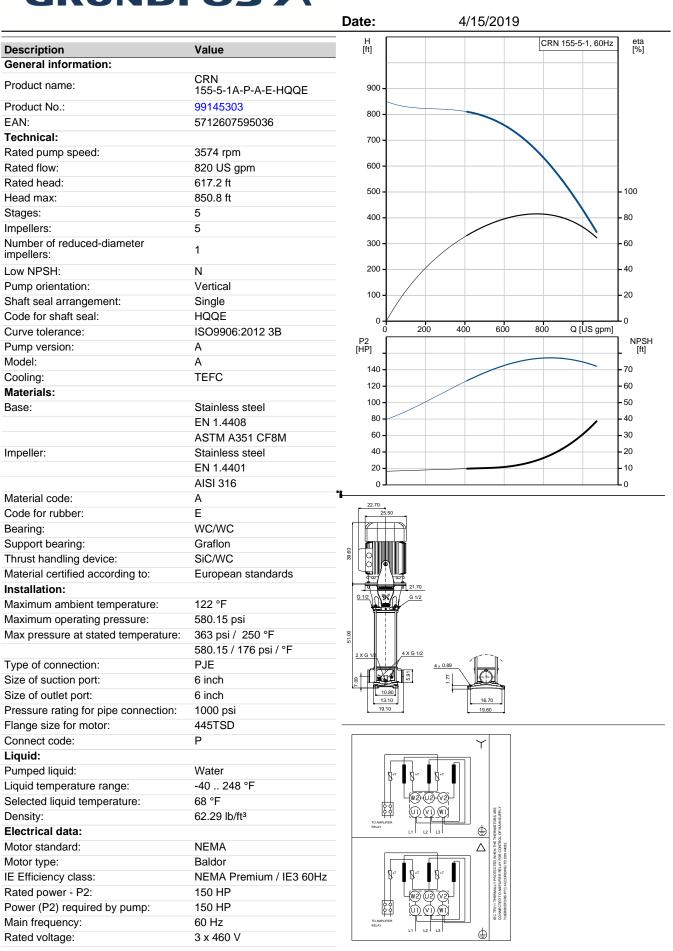


Company name: Created by:

		D	ate:	4/15/2019	
ount	Description				
	Cos phi - power factor:	0.89			
	Rated speed:	3575 rpm			
	IE efficiency:	IE3 95.3%			
	Number of poles:	2			
	Enclosure class (IEC 34-5):	55 Dust/Jetting			
	Insulation class (IEC 85):	F			
	Motor Number:	99039034			
	Others:				
	Net weight:	2600 lb			
	Gross weight:	3080 lb			
	Shipping volume:	138 ft ³			
	Thrust handling device:	Y			
	Approvals:	NSF/ANSI 61, NSF/AI	NSI 372		







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4/15/2019

		Date:
Description	Value	
Service factor:	1.15	-
Rated current:	166 A	
Load current:	191/96 A	
Cos phi - power factor:	0.89	
Rated speed:	3575 rpm	
IE efficiency:	IE3 95.3%	
Number of poles:	2	
Enclosure class (IEC 34-5):	55 Dust/Jetting	
Insulation class (IEC 85):	F	
Motor protection:	PTC	
Motor Number:	99039034	
Controls:		
Frequency converter:	NONE	
Others:		
Net weight:	2600 lb	
Gross weight:	3080 lb	
Shipping volume:	138 ft ³	
Thrust handling device:	Y	
Approvals:	NSF/ANSI 61, NSF/ANSI 372	

