9/26/2019

Date:

Count | Description

1 CRI 1S-11 A-CA-A-E-HQQE



Product No.: 96081228

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in stainless steel. Power transmission is via a rigid split coupling. Pipe connection is via FlexiClamps.

The pump is fitted with a 1-phase, fan-cooled asynchronous motor. The pump is fitted with a 1-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:

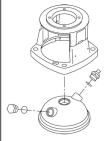
1) Alkaline-based cleaning.

- 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

The pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). 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.



Date:

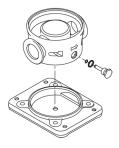
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The shaft seal is screwed into the pump head.

The pump has a special air-cooled shaft-seal chamber generating the same insulation effect as that of a vacuum flask. No external cooling is necessary; the ambient temperature is sufficient. An automatic vent vents the pump seal chamber.

The pump has a stainless-steel base mounted on a separate base plate. The base and base plate are kept in position by the tension of the staybolts which hold the pump together. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate. The base is prepared for connection by means of FlexiClamp 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 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 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).

The motor has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

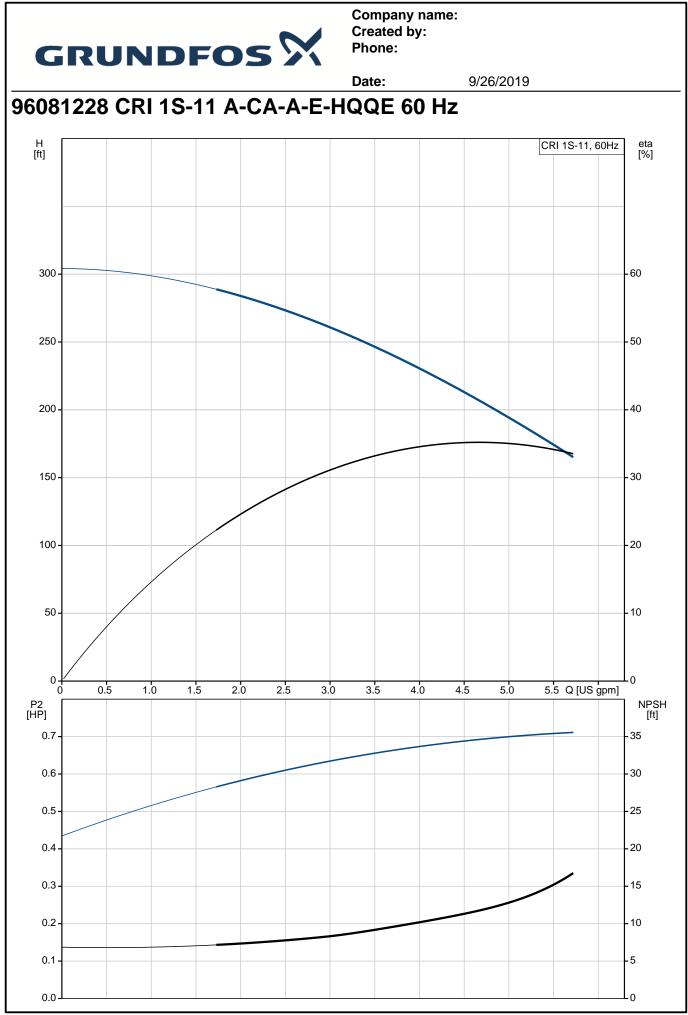
As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.

### **Technical data**

Controls: Frequency converter:	NONE
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -4 248 °F 68 °F 62.29 lb/ft³
<b>Technical:</b> Rated pump speed: Rated flow: Rated head: Pump orientation: Shaft seal arrangement:	3464 rpm 4.84 US gpm 200.1 ft Vertical Single



<b>D</b> 1.4	Date:	9/26/2019
Description		
Code for shaft seal:	HQQE	
Approvals on nameplate:	CURUS,NSF61	
Curve tolerance:	ISO9906:2012 3B	
Materials:		
Base:	Stainless steel	
	EN 1.4408	
	AISI 316	
Impeller:	Stainless steel	
	EN 1.4301	
	AISI 304	
Bearing:	SIC	
Installation:		
Maximum ambient temperatur	e: 104 °F	
Maximum operating pressure:	362.59 psi	
Max pressure at stated tempe	rature: 363 psi / 250 °F 363 psi / -4 °F	
Type of connection:	FlexiClamp	
Size of inlet connection:	DN 32	
Size of outlet connection:	DN 32	
Pressure rating for pipe conne	ection: PN 25	
Flange size for motor:	56C	
Electrical data:		
Motor standard:	NEMA	
Motor type:	BALDOR	
Rated power - P2:	0.75 HP	
Power (P2) required by pump		
Main frequency:	60 Hz	
Rated voltage:	1 x 115/208-230 V	
Service factor:	1.25	
Rated current:	9,60/5,00-4,80 A	
Rated speed:	3450 rpm	
Number of poles:	2	
Enclosure class (IEC 34-5):	54 Dust/Splashing	
Insulation class (IEC 85):	В	
Motor Number:	84Z04001	
Others:		
Net weight:	58.2 lb	
Gross weight:	69.2 lb	
Shipping volume:	6.11 ft <sup>3</sup>	
Country of origin:	US	
Custom tariff no .:	8413.70.2040	



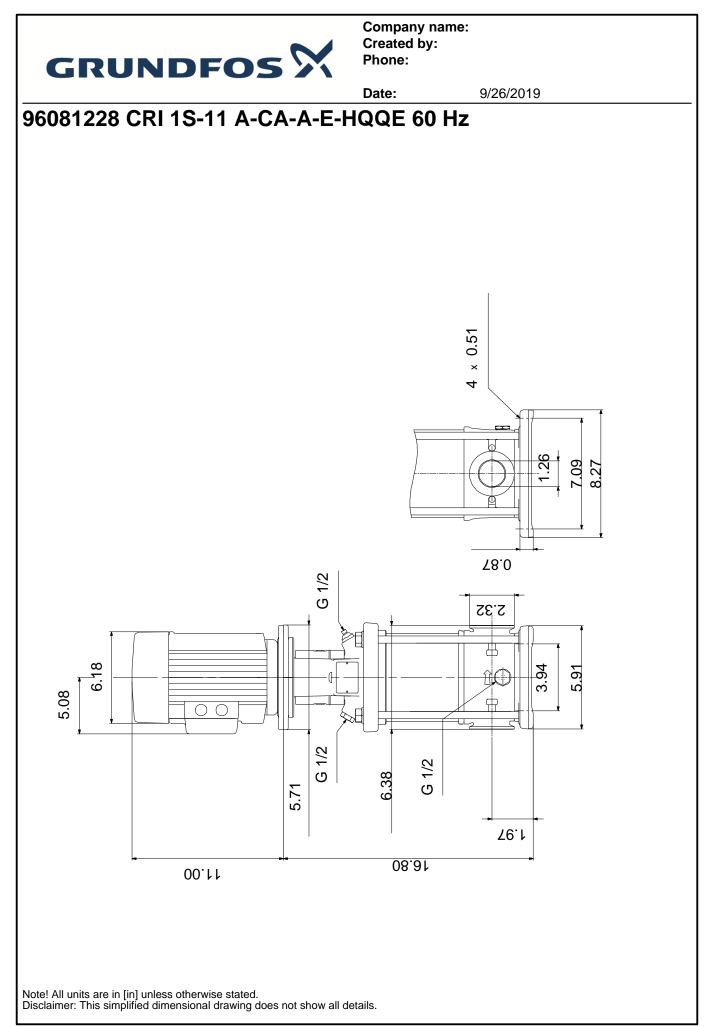


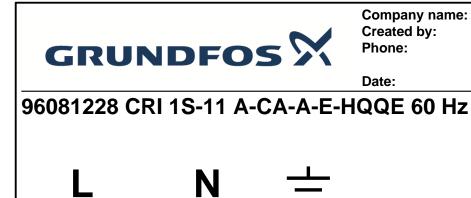
		Date:	<b>Date:</b> 9/26/2019		
Description	Value	H [ft]		CRI 1S-11, 60Hz	eta [%]
General information:		1.0			
Product name:	CRI 1S-11				
Product No.:	A-CA-A-E-HQQE 96081228				0
		300 -		- 60	0
EAN:	5700395156720				
Tochnical	5700395156720	250 -		-50	0
Technical:					
Rated pump speed:	3464 rpm	200 -		40	0
Rated flow:	4.84 US gpm	200-		40	0
Rated head:	200.1 ft				
Head max:	303.2 ft	150 -		- 30	0
Stages:	11				
Impellers:	11	100 -			0
Number of reduced-diameter impellers:	0				
Low NPSH:	Ν	50 -			0
Pump orientation:	Vertical	— "7/			-
Shaft seal arrangement:		I/			
	Single	0 0 0 5	1.0 1.5 2.0 2.5 3.0	3.5 4.0 4.5 Q [US gpm]	
Code for shaft seal:					NPS
Approvals on nameplate:	CURUS,NSF61	P2 [HP]			[ft]
Curve tolerance:	ISO9906:2012 3B	0.6 -		-30	0
Pump version:	A				
Model:	Α	0.5 -		- 25	5
Cooling:	TEFC	0.4 -		- 20	0
Materials:		0.3 -		15	5
Base:	Stainless steel				
	EN 1.4408	0.2 -		10	υ
	AISI 316	0.1 -			
Impeller:	Stainless steel	0.0		0	
	EN 1.4301	1			
	AISI 304		5.08		
Material code:	A		6.18		
Code for rubber:	E				
Bearing:	SIC	1.00			
Installation:		÷			
Maximum ambient temperature:	104 °F				
Maximum operating pressure:		5.			
	362.59 psi	[	G 1/2 G 1/2		
Max pressure at stated temperature:	363 psi / 250 °F				
Time of course of	363 psi / -4 °F	16.80	G 1/2		
Type of connection:	FlexiClamp			4 × 0.51	
Size of inlet connection:	DN 32	1.97			
Size of outlet connection:	DN 32		3.94	1.26	
Pressure rating for pipe connection:	PN 25		5.91	7.09	
Flange size for motor:	56C		-		
Connect code:	CA		•		
Liquid:		LN	÷		
Pumped liquid:	Water	— H I	i		
Liquid temperature range:	-4 248 °F	Ψ	I.		
Selected liquid temperature:	68 °F		1		
Density:	62.29 lb/ft <sup>3</sup>	— I I			
Electrical data:		— I I			
Motor standard:	NEMA	—	i		
Motor type:	BALDOR	—	1		
Rated power - P2:	0.75 HP		1		
Power (P2) required by pump:	0.75 HP	( )	j		
Main frequency:	60 Hz	\ / .	/		
Rated voltage:	1 x 115/208-230 V	— <u>M</u>			
Service factor:	1.25	$(1^{(1)})$			
Rated current:	9,60/5,00-4,80 A				

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		Date:	9/26/2019
Description	Value		
Load current:	11.4/6.0-5.7 A	_	
Rated speed:	3450 rpm		
Number of poles:	2		
Enclosure class (IEC 34-5):	54 Dust/Splashing		
Insulation class (IEC 85):	В		
Motor protection:	NONE		
Motor Number:	84Z04001		
Controls:			
Frequency converter:	NONE		
Others:			
Net weight:	58.2 lb		
Gross weight:	69.2 lb		
Shipping volume:	6.11 ft <sup>3</sup>		
Country of origin:	US		
Custom tariff no .:	8413.70.2040		





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All units are [in] unless otherwise presented.