

Rotating seal ring material: silicon carbide (SiC)



4/21/2020

• 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.

Date:

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 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 chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE 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 base plate. This 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 flanges and base are cast in one piece and prepared for connection by means of DIN, ANSI or JIS.

## 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.

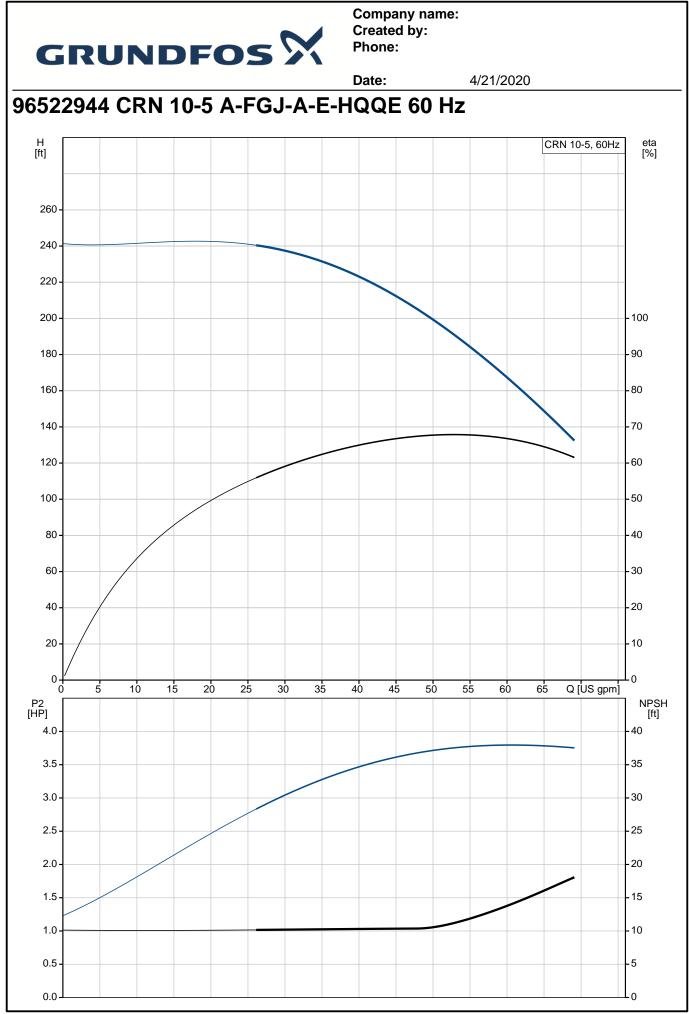
As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.

## **Technical data**

Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -4 248 °F 68 °F 62.29 lb/ft <sup>3</sup>
Technical: Rated pump speed: Rated flow: Rated head: Actual impeller diameter: Pump orientation: Shaft seal arrangement: Code for shaft seal:	3468 rpm 53.3 US gpm 189.6 ft 3.66 in Vertical Single HQQE



Description			
Approvals on nameplate:	CURUS		
Curve tolerance:	ISO9906:2012 3B		
Materials:			
Base:	Stainless steel		
Dase.	EN 1.4408		
	AISI 316		
Impeller:	Stainless steel		
•	EN 1.4401		
	AISI 316		
Bearing:	SIC		
Installation:			
Maximum ambient temperature	: 104 °F		
Maximum operating pressure:	362.59 psi		
Max pressure at stated tempera		)°F	
	363 psi / -4 °		
Type of connection:	DIN / ANSI / JIS		
Size of inlet connection:	DN 50		
Size of outlet connection:	DN 50		
Pressure rating for connection:			
Flange rating inlet:	300 lb		
Flange size for motor:	182TC		
Electrical data:			
Motor standard:	NEMA		
Motor type:	BALDOR		
Rated power - P2:	5 HP		
Power (P2) required by pump:	5 HP		
Main frequency:	60 Hz		
Rated voltage:	1 x 208-230 V		
Service factor:	1.15		
Rated current:	24.0-22.0 A		
Rated speed:	3450 rpm		
Number of poles:	2 IDE 4		
Enclosure class (IEC 34-5): Insulation class (IEC 85):	IP54 F		
Motor Number:	85700012		
	00700012		
Controls:			
Frequency converter:	NONE		
Others:			
DOE Pump Energy Index CL:	0.87		
Net weight:	187 lb		
Gross weight:	203 lb		
Shipping volume:	13.1 ft <sup>3</sup>		
Country of origin:	US		
Custom tariff no .:	8413.70.2040		





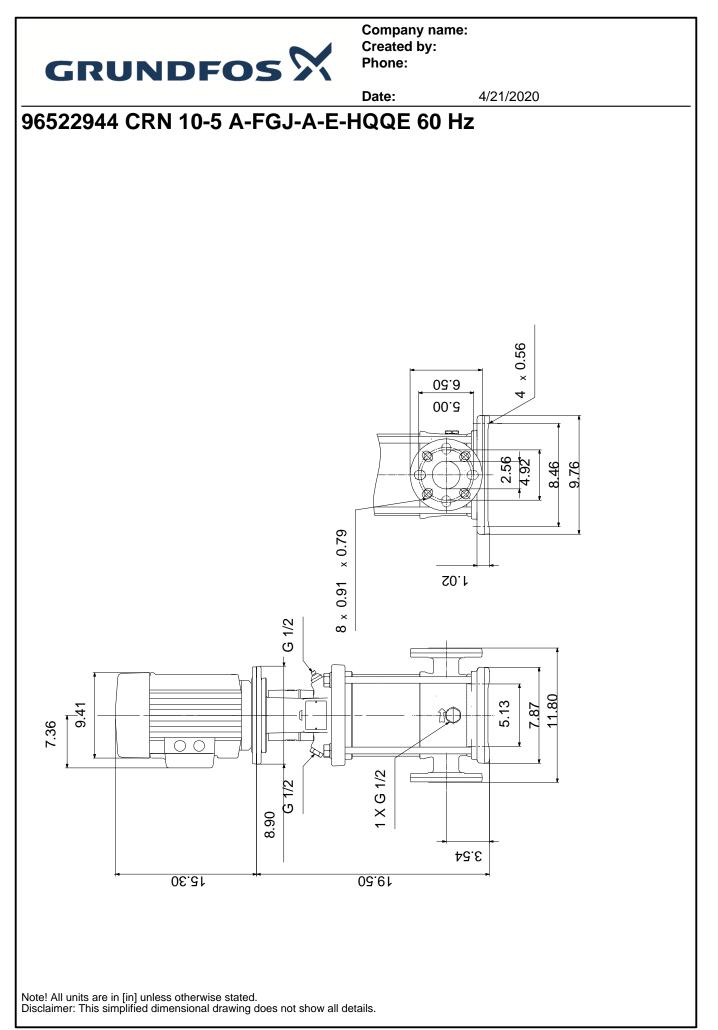
		Date:	4/21/20		1 .
Description General information:	Value	[ft]		CRN 10-5, 60Hz	eta [%]
Product name:	CRN 10-5	260 -			
	A-FGJ-A-E-HQQE	240 -			
Product No.:	96522944	220 -			
EAN:	5700396896953	200 -			- 100
<b>-</b>	5700396896953	180 -			- 90
Technical:	0.100				
Rated pump speed:	3468 rpm	160 -			- 80
Rated flow:	53.3 US gpm	140 -			- 70
Rated head:	189.6 ft	120 -			- 60
Maximum head:	241.5 ft	100 -			- 50
Actual impeller diameter:	3.66 in				
Stages:	5	80 -			- 40
Impellers:	5	60 -			- 30
Number of reduced-diameter impellers:	0	40 -			- 20
Low NPSH:	Ν	20 -			- 10
Pump orientation:	Vertical	o -			Lo
Shaft seal arrangement:	Single	0	10 20 30	40 50 Q [US gpm]	
Code for shaft seal:	HQQE	P2 [HP]			NPSH [ft]
Approvals on nameplate:	CURUS	3.5 -			- 35
Curve tolerance:	ISO9906:2012 3B	3.0			- 30
Pump version:	А				
Model:	А	2.5 -			- 25
Cooling:	TEFC	2.0 -			- 20
Materials:		1.5 -			- 15
Base:	Stainless steel	1.0			- 10
	EN 1.4408	0.5 -			-5
	AISI 316	0.0			0
Impeller:	Stainless steel	-			
	EN 1.4401		7.36		
	AISI 316				
Material code:	A				
Code for rubber:	E	15.30			
Bearing:	SIC				
Installation:		8.90	31/2 61/2		
Maximum ambient temperature:	104 °F				
Maximum operating pressure:	362.59 psi	0 <u>9</u>		79	
Max pressure at stated temperature:	363 psi / 250 °F	₩ <u>1</u> X			
	363 psi / -4 °F	4			
Type of connection:	DIN / ANSI / JIS	3.54	▁╨▟╤╪╪╗╢ ╞		
Size of inlet connection:	DN 50		5.13	4.92	
Size of outlet connection:	DN 50		, 11:80 ,	9.76	
Pressure rating for connection:	PN 25				
Flange rating inlet:	300 lb				
Flange size for motor:	182TC		÷		
Connect code:	FGJ		i		
Liquid:		Ψ	ļ		
Pumped liquid:	Water				
Liquid temperature range:	-4 248 °F				
Selected liquid temperature:	68 °F		i		
Density:	62.29 lb/ft <sup>3</sup>				
Electrical data:			1		
Motor standard:	NEMA		i		
Motor type:	BALDOR		I.		
Rated power - P2:	5 HP	— ( )	/		
Power (P2) required by pump:	5 HP	$ \mathcal{V}$ ,	/		
Main frequency:	60 Hz	— (M)			
Rated voltage:	1 x 208-230 V	— <u></u>			

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		Date:
Description	Value	
Service factor:	1.15	
Rated current:	24.0-22.0 A	
Load current:	27.0-25.0 A	
Rated speed:	3450 rpm	
Number of poles:	2	
Enclosure class (IEC 34-5):	IP54	
Insulation class (IEC 85):	F	
Motor protection:	NONE	
Motor Number:	85700012	
Controls:		
Frequency converter:	NONE	
Others:		
DOE Pump Energy Index CL:	0.87	
Net weight:	187 lb	
Gross weight:	203 lb	
Shipping volume:	13.1 ft <sup>3</sup>	
Country of origin:	US	
Custom tariff no.:	8413.70.2040	





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## Ν All units are [in] unless otherwise presented.