

Stationary seat material: silicon carbide (SiC)



4/16/2020

Count Description

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: FKM (fluorocarbon rubber)

FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.

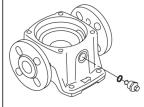


The shaft seal is screwed into the pump head.

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 base is made of cast iron. The flanges and base are cast in one piece. 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.



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 efficiency is classified as premium efficiency in accordance with EISA2007.

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 can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

Technical data

Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -4 194 °F 68 °F 62.29 lb/ft³
Technical: Rated pump speed:	3461 rpm



		Date:	4/16/2020
nt	Description		
	Rated flow:	9.69 US gpm	
	Rated head:	582.4 ft	
	Pump orientation:	Vertical	
	Shaft seal arrangement:	Single	
	Code for shaft seal:	HQQV	
	Approvals on nameplate:	CURUS	
	Curve tolerance:	ISO9906:2012 3B	
	Materials: Base:	Cast iron	
	Dase.		
		EN 1561 EN-GJL-200	
		ASTM A48-25B	
	Impeller:	Stainless steel	
		EN 1.4301	
		AISI 304	
	Bearing:	SIC	
	Installation:	140 °E	
	Maximum ambient temperature:		
	Maximum operating pressure:	362.59 psi	
	Max pressure at stated tempera		
		363 psi / -4 °F	
	Type of connection:	DIN / ANSI / JIS	
	Size of inlet connection:	DN 25/32	
	Size of outlet connection:	DN 25/32	
	Pressure rating for connection:		
	Flange rating inlet:	250 lb	
	Flange size for motor:	182TC	
	Electrical data:		
	Motor standard:	NEMA	
		90HA	
	Motor type:		
	IE Efficiency class:	NEMA Premium / IE3 60Hz	
	Rated power - P2:	3 HP	
	Power (P2) required by pump:	3 HP	
	Main frequency:	60 Hz	
	Rated voltage:	3 x 208-230YY/460Y V	
	Service factor:	1.15	
	Rated current:	8,50-8,20/4,10 A	
	Starting current:	850-970 %	
	Cos phi - power factor:	0.85-0.82	
	Rated speed:	3500-3520 rpm	
	IE efficiency:	IE3 86,5%	
	Motor efficiency at full load:	86.5 %	
	Motor efficiency at 3/4 load:	89.4 %	
	Motor efficiency at 3/4 load:	89.0 %	
	Number of poles:	2	
	Enclosure class (IEC 34-5):	55 Dust/Jetting	
	Insulation class (IEC 85):	F	
	Motor Number:	99540186	
	Controls:		
	Frequency converter:	NONE	
	Others:		
	Net weight:	114 lb	
	Gross weight:	132 lb	
	Shipping volume:	10.1 ft ³	
	Country of origin:	US	



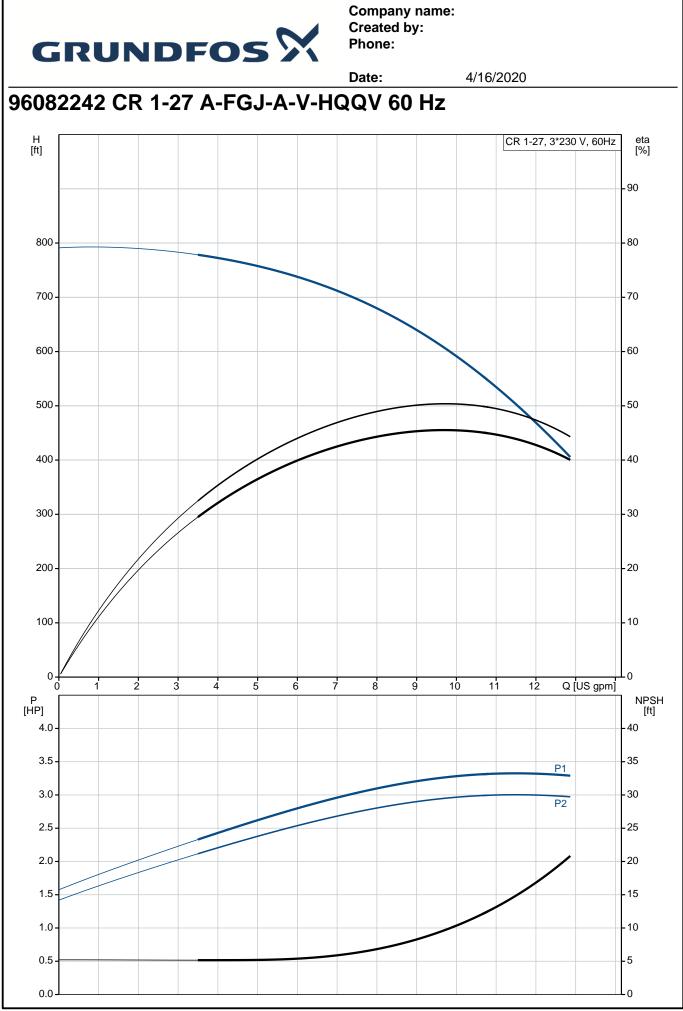
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Description Custom tariff no.: Company name: Created by: Phone:

4/16/2020

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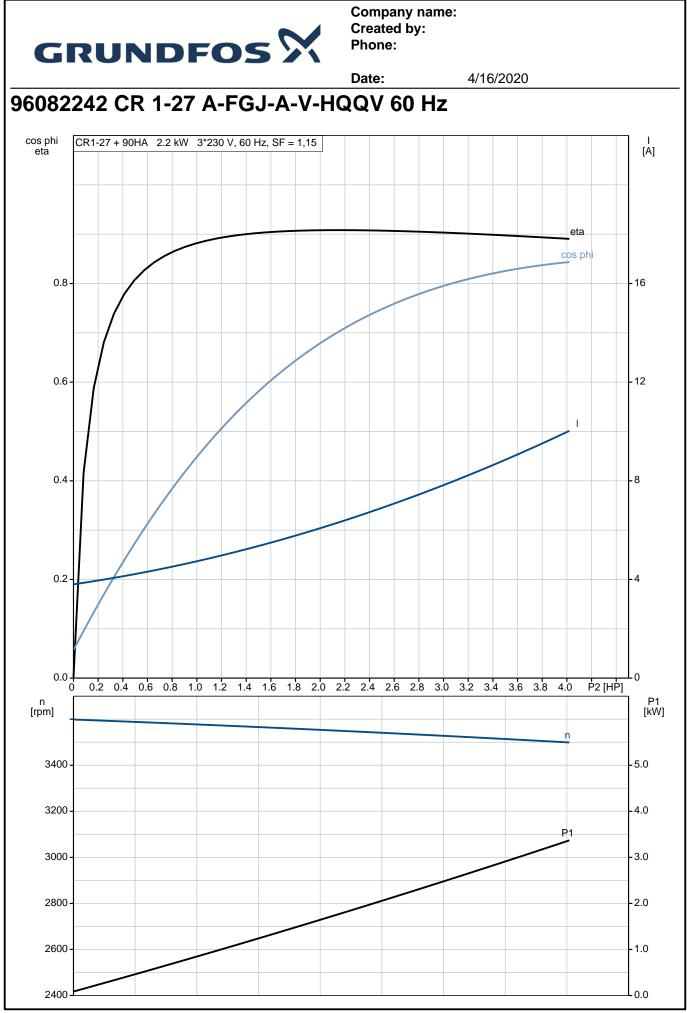


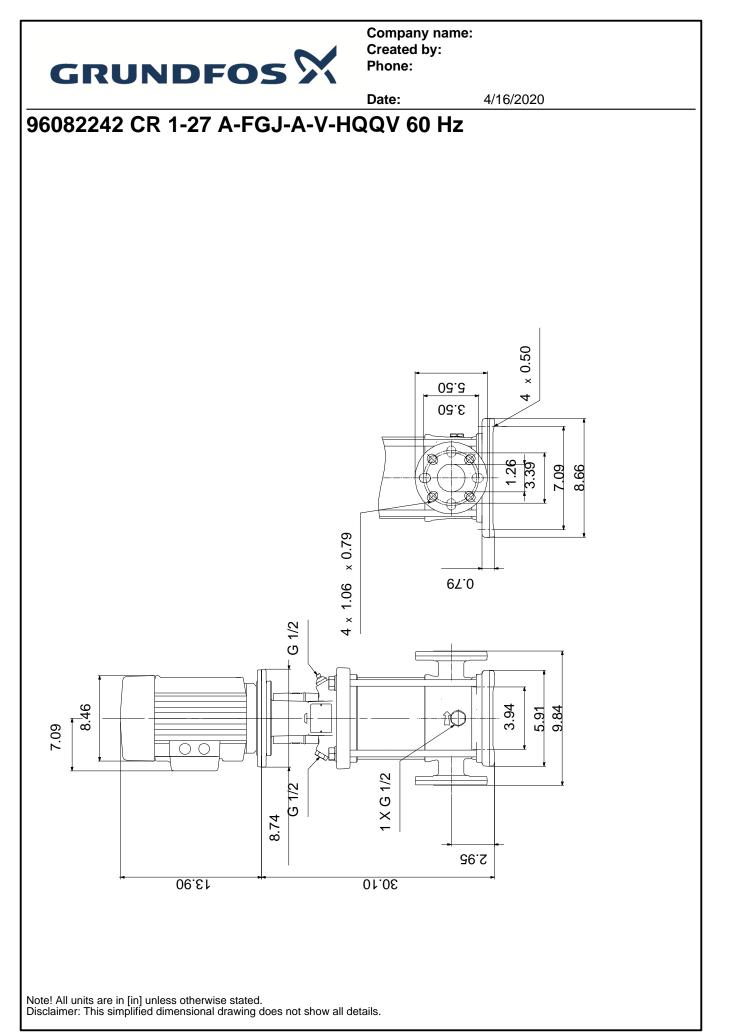
		Н		CR 1-27, 3*230 V, 60Hz] e
Description	Value	H [ft]		UR 1-27, 3 230 V, 60HZ	- ['
General information:					- 90
Product name:	CR 1-27 A-FGJ-A-V-HQQV	800 -			- 80
Product No.:	96082242				
EAN:	5700395169805	700 -			- 70
Technical:	5700395169805	600 -			- 60
	0.404	000 -			Γ
Rated pump speed:	3461 rpm	500 -			- 50
Rated flow:	9.69 US gpm				
Rated head: Maximum head:	582.4 ft 787.1 ft	400 -			- 40
Stages:	27				
Impellers:	27	300 -			- 30
Number of reduced-diameter					
impellers:	0	200 -			- 20
Low NPSH:	N	100-			- 10
Pump orientation:	Vertical				
Shaft seal arrangement:	Single	0 / 2	4 6	8 10 Q [US apm]	۲o
Code for shaft seal:	HQQV		4 6	8 10 Q [US gpm]	יו
Approvals on nameplate:	CURUS	P [HP]			+ '
Curve tolerance:	ISO9906:2012 3B	3.5 -		P1	- 35
Pump version:	A	3.0 -			- 30
Model:	A	2.5		P2	- 25
Cooling:	TEFC	2.0			20
Materials:	Castings	1.5			15
Base:	Cast iron	1.0			
	EN 1561 EN-GJL-200				
Impollor	ASTM A48-25B	0.5			-5
Impeller:	Stainless steel EN 1.4301	0.0			LO
	AISI 304	-	7.09		
Material code:	AISI 304 A		8.46		
Code for rubber:	V				
Bearing:	SIC	13.90			
Installation:		-	5U		
Maximum ambient temperature:	140 °F	8.74			
Maximum operating pressure:	362.59 psi	<u>G 1/2</u>			
Max pressure at stated temperature:	363 psi / 194 °F 363 psi / -4 °F	9 8 <u>1 X G 1/2</u>		0.79	
Type of connection:	DIN / ANSI / JIS				
Size of inlet connection:	DN 25/32	5.95			
Size of outlet connection:	DN 25/32	,	<u>3.94</u> 5.91	1.26 3.39 4 × 0.50	
Pressure rating for connection:	PN 25	L.	9.84	7.09	
Flange rating inlet:	250 lb				
Flange size for motor:	182TC				
Connect code:	FGJ		OW VOLTAGE TION OF ROTATION		
Liquid:					
Pumped liquid:	Water				
Liquid temperature range:	-4 194 °F		(ws) (hs) (hs)		
Selected liquid temperature:	68 °F	▏▕▌▋▋			
Density:	62.29 lb/ft ³		Ĭ I I I I I I I I I I I I I I I I I I I	_	
Electrical data:					
Motor standard:	NEMA		I VOLTAGE		
Motor type:	90HA				
IE Efficiency class:	NEMA Premium / IE3 60Hz				
Rated power - P2:	3 HP				
Power (P2) required by pump:	3 HP	▎▝▝▝▁	$\Psi \Psi \Psi \Psi$		
Main frequency:	60 Hz				
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Rated current:	8,50-8,20/4,10 A		
Starting current:	850-970 %		
Load current:	9,60-9,20/4,60 A		
Cos phi - power factor:	0.85-0.82		
Rated speed:	3500-3520 rpm		
E efficiency:	IE3 86,5%		
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96082242 CR 1-27 A-FGJ-A-V-HQQV 60 Hz

