

Stationary seat material: silicon carbide (SiC)



Date:

4/16/2020

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 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.

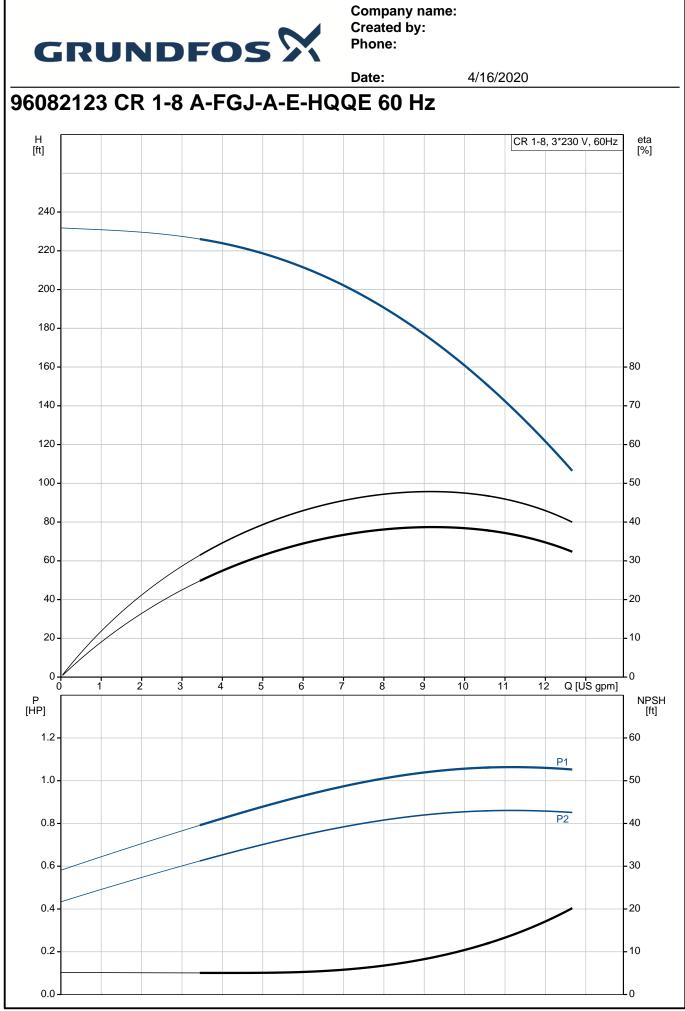
The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

## **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:	3484 rpm
Rated flow:	9.69 US gpm
Rated head:	170.9 ft
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE



		Date:	4/16/2020	
Int	Description			
	Approvals on nameplate:	CURUS,NSF61		
	Curve tolerance:	ISO9906:2012 3B		
	Ourve tolerance.	1003300.2012 30		
	Materials:			
	Base:	Cast iron		
		EN 1561 EN-GJL-200		
		ASTM A48-25B		
	Impeller:	Stainless steel		
		EN 1.4301		
		AISI 304		
	Bearing:	SIC		
	Installation:			
	Maximum ambient temperature:	140 °F		
	Maximum operating pressure:	362.59 psi		
	Max pressure at stated tempera	ture: 363 psi / 250 °F		
		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:	PN 25		
	Flange rating inlet:	250 lb		
	Flange size for motor:	56C		
	Electrical data:			
	Motor standard:	NEMA		
	Motor type:	71BB		
	IE Efficiency class:	NEMA Premium / IE3 60Hz		
	Rated power - P2:	1 HP		
	Power (P2) required by pump:	1 HP		
	Main frequency:	60 Hz		
	Rated voltage:	3 x 208-230YY/460Y V		
	Service factor:	1.25		
	Rated current:	3,25-3,35/1,68 A		
	Starting current:	590-650 %		
	Cos phi - power factor:	0.81-0.72		
	Rated speed:	3430-3460 rpm		
	IE efficiency:	IE3 77,0%		
	Motor efficiency at full load:	80.0 % 79.5 %		
	Motor efficiency at 3/4 load: Motor efficiency at 1/2 load:	79.5 % 75.0 %		
	Number of poles:			
		2 55 Duct/latting		
	Enclosure class (IEC 34-5):	55 Dust/Jetting F		
	Insulation class (IEC 85): Motor Number:	F 85900703		
		00000100		
	Controls:			
	Frequency converter:	NONE		
	Otherse			
	Others:			
	Net weight:	61.5 lb		
	Gross weight:	72.5 lb		
	Shipping volume:	4.94 ft <sup>3</sup>		
	Country of origin:	US		
	Custom tariff no.:	8413.70.2040		



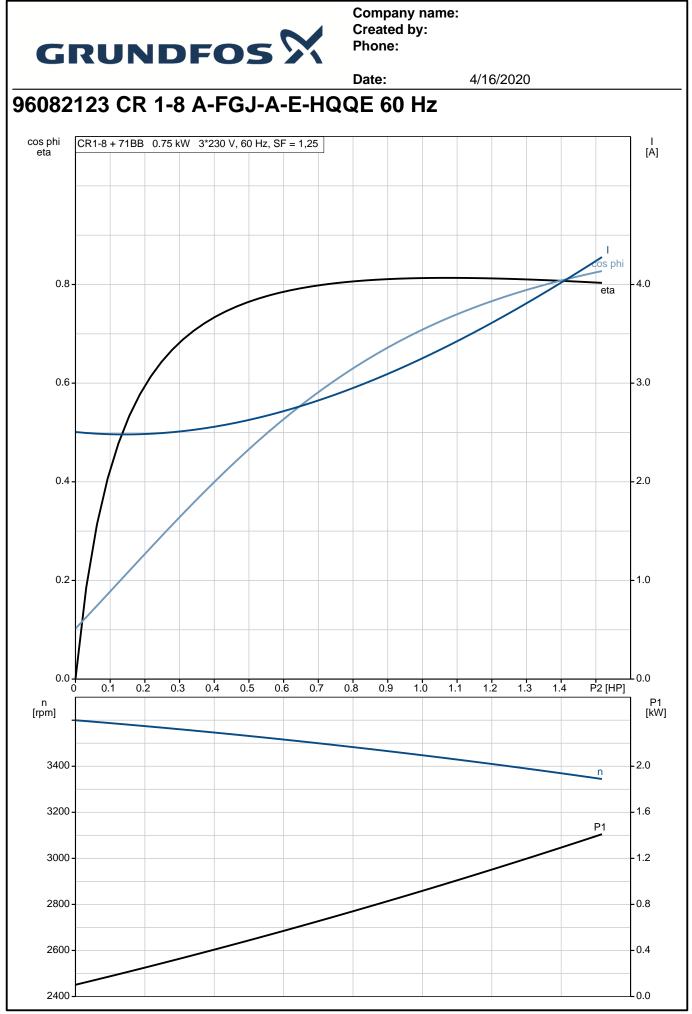


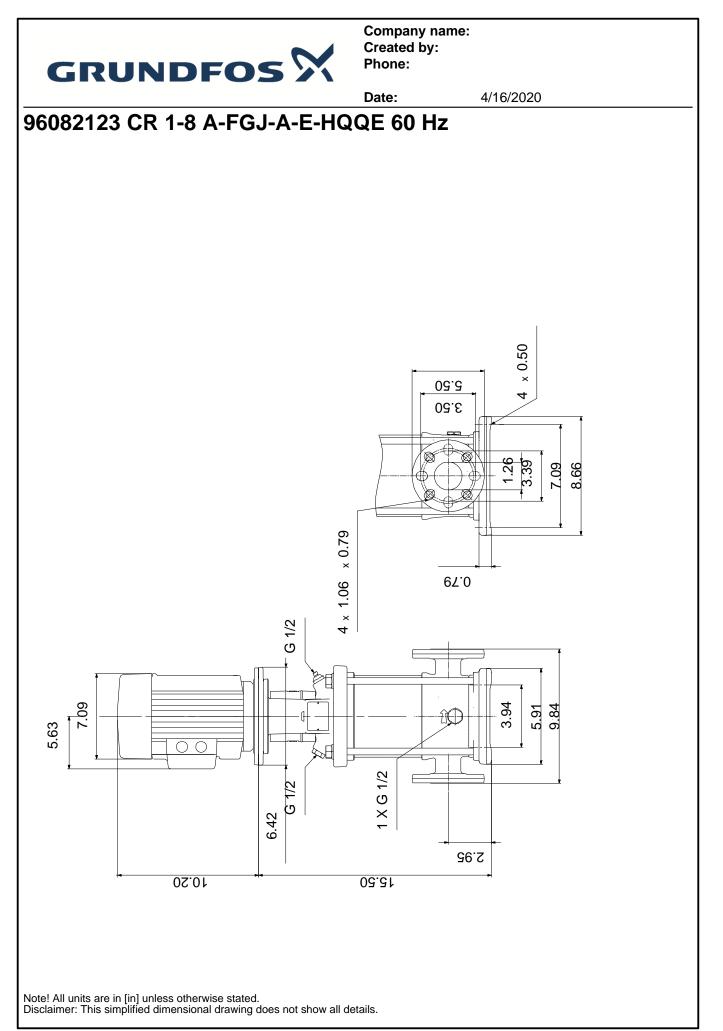
		Date:	4/16/2020
Description	Value	H [ft]	CR 1-8, 3*230 V, 60Hz [%]
General information:			
Product name:	CR 1-8 A-FGJ-A-E-HQQE	240 -	
Product No.:	96082123	220 -	
EAN:	5700395168617		
	5700395168617	200 -	
Technical:		180 -	
Rated pump speed:	3484 rpm	160 -	-80
Rated flow:	9.69 US gpm		
Rated head:	170.9 ft	140 -	70
Maximum head:	232.3 ft	120 -	
Stages:	8	100 -	- 50
Impellers:	8	100-	
Number of reduced-diameter impellers	•	80 -	40
	0	60 -	30
Low NPSH:	Ν		
Pump orientation:	Vertical	40 -	-20
Shaft seal arrangement:	Single	20 -	10
Code for shaft seal:	HQQE	0	
Approvals on nameplate:	CURUS,NSF61	0	2 4 6 8 10 Q [US gpm]
Curve tolerance:	ISO9906:2012 3B	P [HP]	NP
Pump version:	A	· · · 1	
Model:	A	1.0 -	P1 50
Cooling:	TEFC		
Materials:	TEI 6	0.8 -	P2 40
Base:	Cast iron	0.6 -	30
Dase.	EN 1561 EN-GJL-200		
	ASTM A48-25B	0.4 -	20
Impollori	Stainless steel	0.2 -	10
Impeller:		0.0 L	
	EN 1.4301		
Marka sial an day	AISI 304		5.63
Material code:	A		7.09
Code for rubber:	E		
Bearing:	SIC	10.20	
Installation:	4.40.05	5	
Maximum ambient temperature:	140 °F	. +	
Maximum operating pressure:	362.59 psi	_	<u>G 1/2</u> <u>G 1/2</u>
Max pressure at stated temperature:	363 psi / 250 °F		
	363 psi / -4 °F	15.50	1 X G 1/2
Type of connection:	DIN / ANSI / JIS		
Size of inlet connection:	DN 25/32	2.95	
Size of outlet connection:	DN 25/32		3.94
Pressure rating for connection:	PN 25		5.91 9.84 7.09
Flange rating inlet:	250 lb		8.66
Flange size for motor:	56C		
Connect code:	FGJ		
Liquid:			
Pumped liquid:	Water		▲ WARNING
Liquid temperature range:	-4 248 °F	WITH	OR MUST BE GROUNDED IN ACCORDANCE I THE NATIONAL ELECTRICAL CODE AND
Selected liquid temperature:	68 °F	LOCA	AL CODES BY TRAINED PERSONNEL TO VENT SERIOUS ELECTRICAL SHOCKS.
Density:	62.29 lb/ft <sup>3</sup>	SOUR	ERVICE MOTOR, DISCONNECT POWER RCE FROM MOTOR AND ANY ACCESSORY
Electrical data:		COMP	CES AND ALLOW MOTOR TO COME TO A PLETE STAND STILL.
Motor standard:	NEMA		LOW VOLTAGE HIGH VOLTAGE 60Hz: 208-230V 50Hz: 460V 50Hz: 400V
Motor type:	71BB		
IE Efficiency class:	NEMA Premium / IE3 60Hz	3 4 L3	2 ¶ 1 ¶ 3 ♥ 2 ♥ 1 ♥ L2 L1 L L3 L2 L1 1 1 1
Rated power - P2:	1 HP		INTERCHANGE ANY TWO LINE
Power (P2) required by pump:	1 HP		MOREST TO RECOVER FOLIATION     THERE FROM THE CONTROL     J     (MHERE FROM THE CONTROL     J
Main frequency:	60 Hz		
Rated voltage:	3 x 208-230YY/460Y V		

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		Date:	4/16/2020
Description	Value		
Service factor:	1.25		
Rated current:	3,25-3,35/1,68 A		
Starting current:	590-650 %		
Load current:	4,0-3,9/1,95 A		
Cos phi - power factor:	0.81-0.72		
Rated speed:	3430-3460 rpm		
IE efficiency:	IE3 77,0%		
Motor efficiency at full load:	80.0 %		
Motor efficiency at 3/4 load:	79.5 %		
Motor efficiency at 1/2 load:	75.0 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Motor protection:	NONE		
Motor Number:	85900703		
Controls:			
Frequency converter:	NONE		
Others:			
Net weight:	61.5 lb		
Gross weight:	72.5 lb		
Shipping volume:	4.94 ft <sup>3</sup>		
Country of origin:	US		
Custom tariff no.:	8413.70.2040		







Date: 4/16/2020 96082123 CR 1-8 A-FGJ-A-E-HQQE 60 Hz WARNING  $\bigwedge$ MOTOR MUST BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES BY TRAINED PERSONNEL TO PREVENT SERIOUS ELECTRICAL SHOCKS. TO SERVICE MOTOR, DISCONNECT POWER SOURCE FROM MOTOR AND ANY ACCESSORY DEVICES AND ALLOW MOTOR TO COME TO A COMPLETE STAND STILL. HIGH VOLTAGE LOW VOLTAGE 60Hz: 460V 60Hz. 208-230V 50Hz: 400V 5 6 4 5⊜ 6⊜ 4⊜ 9 8⊜ 7⊜ 9 7⊜ 8 2 3⊜ 1⊜ 3⊜ 2⊜ 1⊜ 96553852 L1 L2 L3 L3 L2 L1 INTERCHANGE ANY TWO LINE WIRES TO REVERSE ROTATION THERMOSTAT LEADS 🖨 J

(WHEN PROVIDED)

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