

Submittal Data

PROJECT:	UNIT TAG:	QUANTITY:	
	TYPE OF SERVICE:		
REPRESENTATIVE:	SUBMITTED BY:	 DATE:	
ENGINEER:	APPROVED BY:	 DATE:	
CONTRACTOR:	ORDER NO.:	 DATE:	

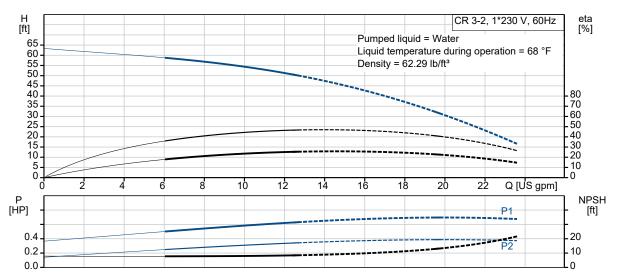


CR 3-2 A-FGJ-A-V-HQQV

Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron. All other wetted parts are in stainless steel (EN 1.4301)(AISI 304)

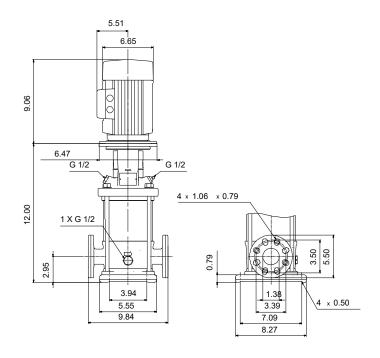
Product photo could vary from the actual product

Conditions of Service Pum		Pump Data		Motor Data	
Efficiency:		Max pressure at stated temperature:	363 psi / 194 °F	Rated power - P2:	0.33 HP
Liquid:	Water	Liquid temperature range:	-4 194 °F	Rated voltage:	115/208-230 V
Temperature:	68 °F	Maximum ambient temperature:	104 °F	Main frequency:	60 Hz
NPSH required:	ft	Approvals:	CURUS	Enclosure class:	IP55
Specific Gravity:	1.000	Shaft seal:	HQQV	Insulation class:	F
		Product number:	99916293	Motor protection:	PTO
				Motor type:	WEG
				Eff. 1/1:	54.0 %



Submittal Data



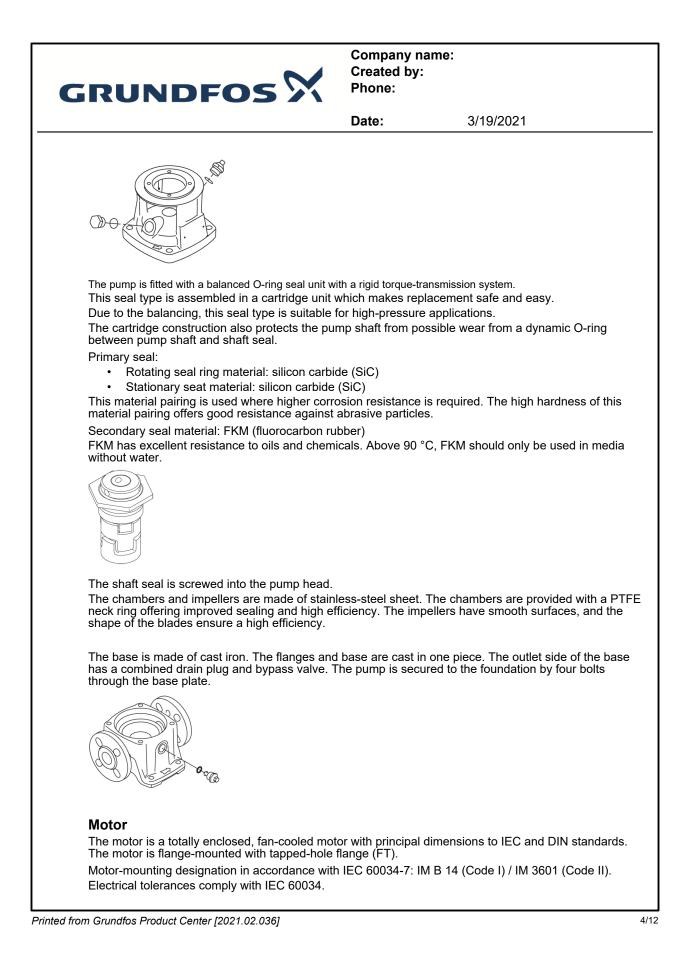


Materials:

Base: Cast iron Base: EN 1561 EN-GJL-200 Base: ASTM A48-25B Impeller: Stainless steel Impeller: AISI 304 Impeller: EN 1.4301 Material code: А Code for rubber: V



	Date: 3/19/2021
Count	Description
1	CR 3-2 A-FGJ-A-V-HQQV
	Product No.: 99916293
	Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via combined DIN-ANSI-JIS flanges.
	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
	A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.
	The pump head, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.

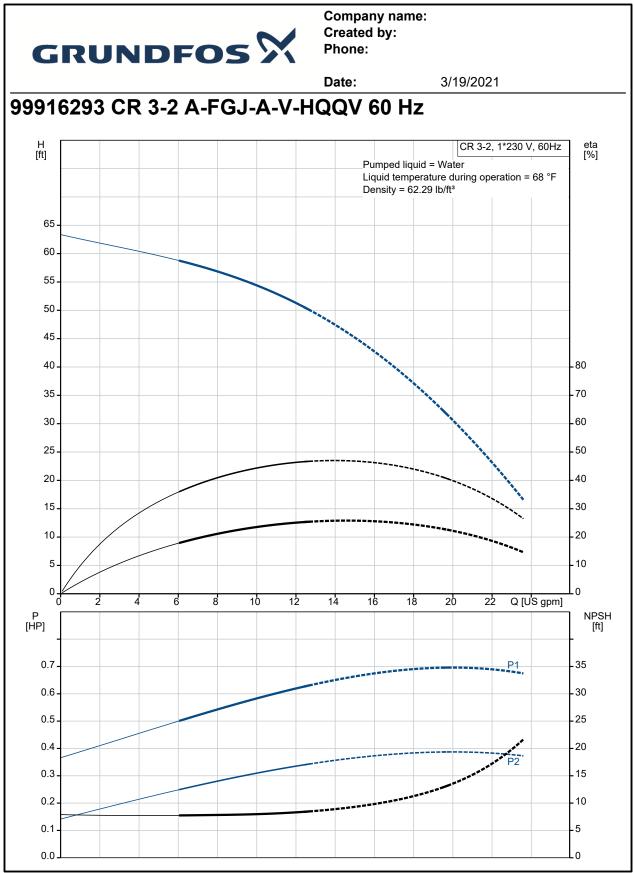


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			Date:	3/19/2021
ount	Description			
	The motor has built-in thermal pr 60034-11 and requires no further temperatures, e.g. constant over	motor protecti	on. The protection	perature sensors) in accordance with IEC on reacts to both slow- and quick-rising
	ensures that the automatic reset	orates automati cannot cause a	c reset, the moto accidents.	or must be connected in a way which
	Technical data			
	Liquid:			
	Pumped liquid:	Water		
	Liquid temperature range:	-4 194 °F		
	Selected liquid temperature:	68 °F		
	Density:	62.29 lb/ft ³		
	Technical:			
	Rated pump speed:	3436 rpm		
	Rated flow:	15.4 US gpm		
	Rated head:	44.95 ft		
	Pump orientation:	Vertical		
	Shaft seal arrangement:	Single		
	Code for shaft seal:	HQQV		
	Approvals on nameplate:	CURUS		
	Curve tolerance:	ISO9906:2012	2 3B	
	Materials:			
	Base:	Cast iron		
		EN 1561 EN-	GJL-200	
		ASTM A48-25	БB	
	Impeller:	Stainless stee		
		EN 1.4301		
		AISI 304		
	Bearing:	SIC		
		SIC		
	Installation:			
	Maximum ambient temperature:	104 °F		
	Maximum operating pressure:	362.59 psi		
	Max pressure at stated temperate	•		
		363 psi /		
	Type of connection:	DIN / ANSI / J	IIS	
	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:	WEG		
	Rated power - P2:	0.33 HP		

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		Date:	3/19/2021
Count	Description		
	Power (P2) required by pump:	0.33 HP	
	Main frequency:	60 Hz	
	Rated voltage:	1 x 115/208-230 V	
	Service factor:	1.15	
	Rated current:	5,2/2,87-2,6 A	
	Starting current:	700-700 %	
	Cos phi - power factor:	0.76	
	Rated speed:	3490 rpm	
	IE efficiency:	54.0%	
	Motor efficiency at full load:	54.0 %	
	Motor efficiency at 3/4 load:	50.0 %	
	Motor efficiency at 1/2 load:	42.0 %	
	Number of poles:	2	
	Enclosure class (IEC 34-5):	IP55	
	Insulation class (IEC 85):	F	
	Motor Number:	99883314	
	Controls:		
	Frequency converter:	NONE	
	Others:		
	Net weight:	58.2 lb	
	Gross weight:	69.2 lb	
	Shipping volume:	4.94 ft ³	
	Country of origin:	US	
	Custom tariff no.:	8413.70.2040	
	1		



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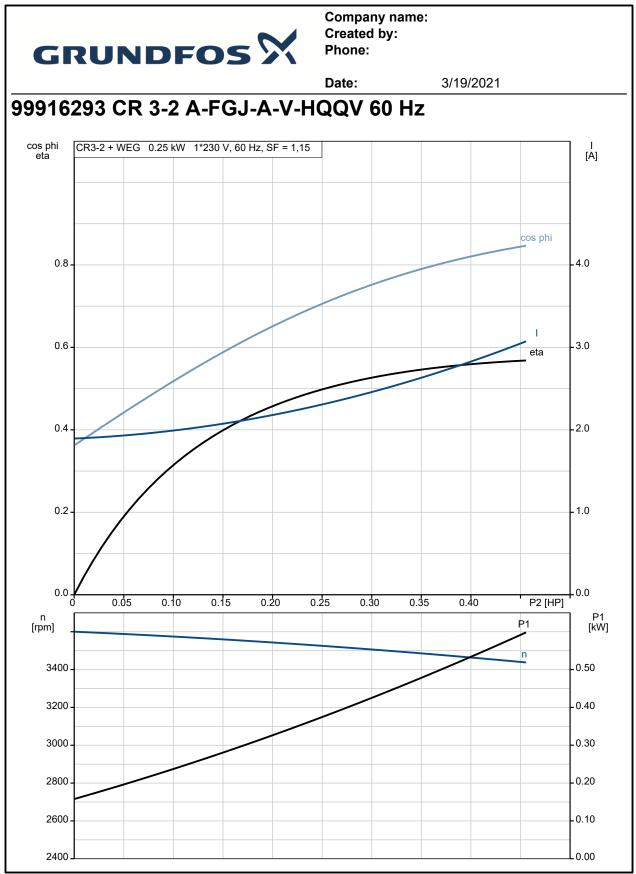


		Date:	3/19/2021	
Description	Value	H [ft]	CR 3-2, 1*230 V, 60Hz	eta [%]
General information:	Fulue	[14]	Pumped liquid = Water	.,]
Product name:	CR 3-2	65 -	Liquid temperature during operation = 68 °F Density = 62.29 lb/ft ³	-
	A-FGJ-A-V-HQQV	60 -		
Product No.:	99916293	55 -		
EAN:	5715114110419	50 -		
Technical:		45 -	****	
Rated pump speed:	3436 rpm	40 -		- 80
Rated flow:	15.4 US gpm	35 -		70
Rated head:	44.95 ft	30		60
Maximum head:	61.68 ft	25		50
Stages:	3	20 -		40
Impellers:	2	15		- 30
Number of reduced-diameter	0	10	· · · ·	_ 20
impellers:		5		10
Low NPSH:	Ν	0		
Pump orientation:	Vertical	o	5 10 15 Q [US gpm]	
Shaft seal arrangement:	Single	P [HP]		NPSH [ft]
Code for shaft seal:	HQQV	-		ł
Approvals on nameplate:	CURUS	0.6 -	P1	- 30
Curve tolerance:	ISO9906:2012 3B	0.0		- 30
Pump version:	A	0.4 -		- 20
Model:	A		are and 22	
Cooling:	IC 411	0.2		- 10
Materials:		0.0		Lo
Base:	Cast iron			
Base:	EN 1561 EN-GJL-200	5.0	51	
Base:	ASTM A48-25B	,	6.65	
Impeller:	Stainless steel			
Impeller:	EN 1.4301			
Impeller:	AISI 304	6.47		
Material code:	A	6.47		
Code for rubber:	V	8 2 1 X G 1/2	4 × 1.06 × 0.79	
Bearing:	SIC	₽ <u>1 x G 1/2</u>		
Bearing:	SIC			
Installation:			3.94 3.39 4 . 0.50	
Maximum ambient temperature:	104 °F		5.55 9.84 9.82 8.27	
Maximum operating pressure:	362.59 psi			
Max pressure at stated temperature:	363 psi / 194 °F			
Max pressure at stated temperature:	363 psi / -4 °F		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Type of connection:	DIN / ANSI / JIS			
Size of inlet connection:	DN 25/32	T1-BLUE	T2-WHITE T3-ORANGE T8-RED T8-RED	278 378
Size of outlet connection:	DN 25/32	T4-YELLOW	T5-BLACK 7P2-BROWN WINDING PF	ROTECTION
Pressure rating for connection:	PN 25			
Flange rating inlet:	250 lb			
	56C			
Flange size for motor:				
Connect code:	FGJ			

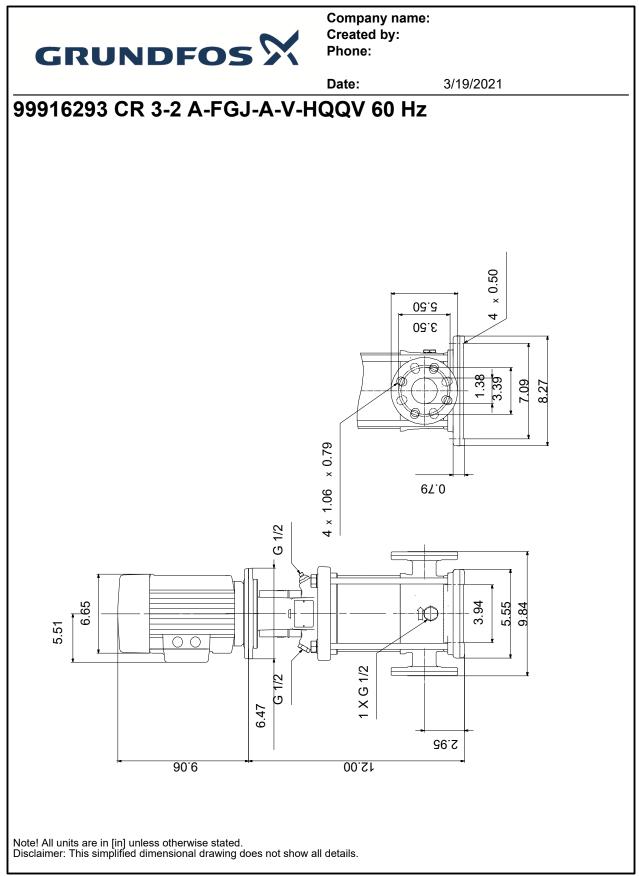
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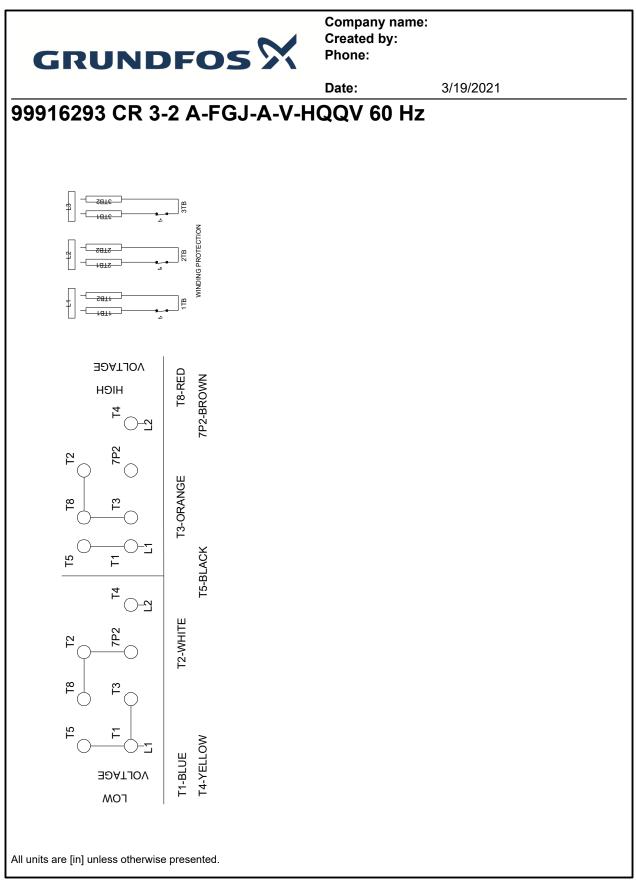
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Pumped liquid:	Water		
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Motor type:	WEG		
Rated power - P2:	0.33 HP		
Power (P2) required by pump:	0.33 HP		
Main frequency:	60 Hz		
Rated voltage:	1 x 115/208-230 V		
Service factor:	1.15		
Rated current:	5,2/2,87-2,6 A		
Starting current:	700-700 %		
Load current:	5.98/2.6 A		
Cos phi - power factor:	0.76		
Rated speed:	3490 rpm		
IE efficiency:	54.0%		
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