

Submittal Data

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



CR 20-5 A-GJ-A-V-HQQV

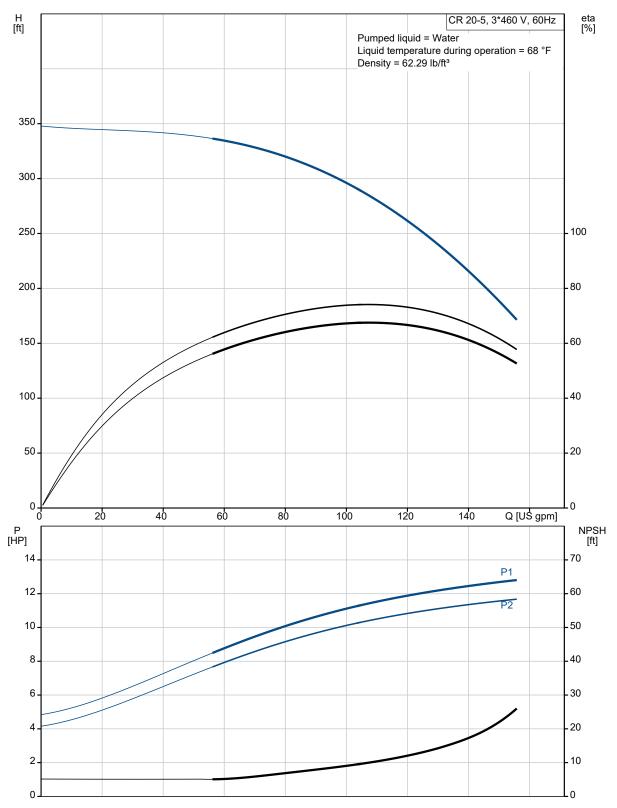
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron. All other wetted parts are in stainless steel (EN 1.4301)(AISI 304)

Product photo could vary from the actual product

Conditions of Service		Pump Data	Pump Data		Motor Data	
Efficiency:		Max pressure at stated temperature:	232 psi / 194 °F	Rated power - P2:	15 HP	
Liquid:	Water	Liquid temperature range:	-4 194 °F	Rated voltage:	208-230/460	
Temperature:	68 °F	Maximum ambient temperature:	104 °F	Main frequency:	60 Hz	
NPSH required:	ft	Shaft seal:	HQQV	Enclosure class:	IP55	
Specific Gravity:	1.000	Product number:	99917758	Insulation class:	F	
				Motor protection:	NONE	
				Motor type:	WEG	
				Eff. 1/1:	91 %	

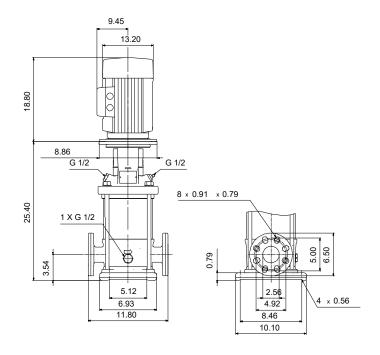
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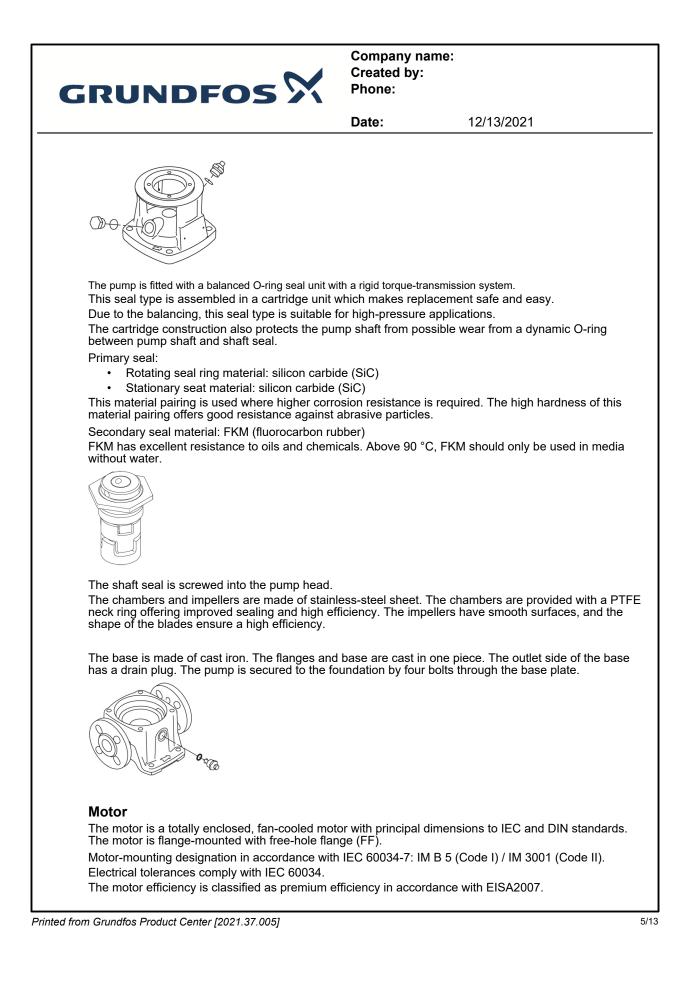


Materials:

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: 12/13/2021 Count Description 1 CR 20-5 A-GJ-A-V-HQQV Product No.: 99917758 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 ANSI-JIS flanges. The pump is fitted with a 3-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 long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump. 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:

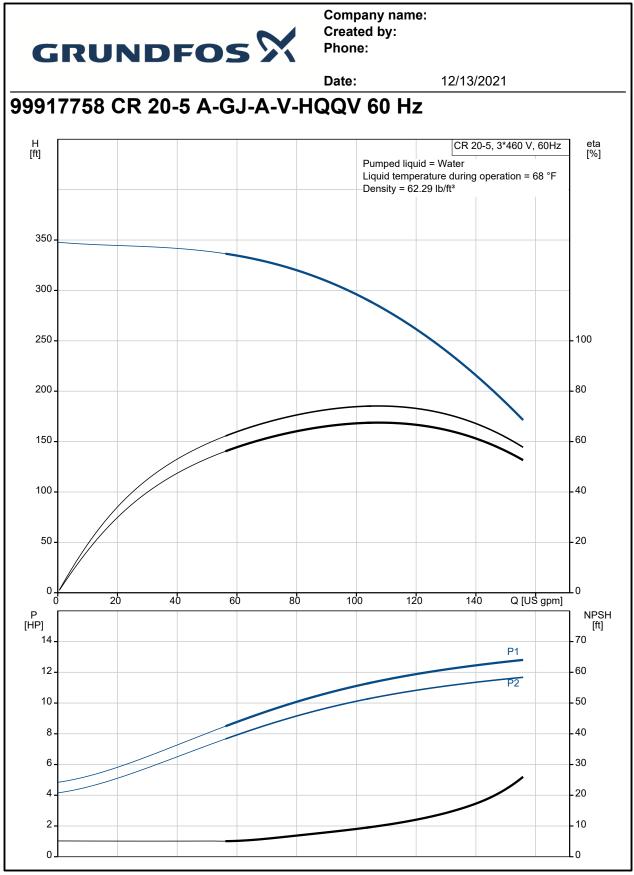
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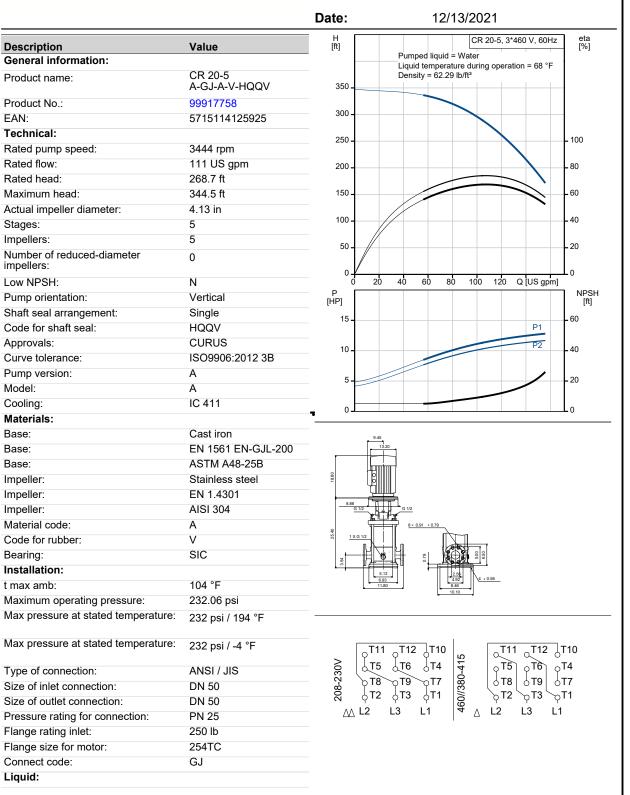
ount	Description				
	The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).				
	The motor can be connected to a variable 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:	Water			
	Liquid temperature range:	-4 194 °F			
	Selected liquid temperature:	68 °F			
	Density:	62.29 lb/ft ³			
	Technical:				
	Rated pump speed:	3444 rpm			
	Rated flow:	111 US gpm			
	Rated head:	268.7 ft			
	Actual impeller diameter:	4.13 in			
	Pump orientation:	Vertical			
	Shaft seal arrangement:	Single			
	Code for shaft seal:	HQQV			
	Approvals:	CURUS			
	Curve tolerance:	ISO9906:2012 3B			
	Materials:				
	Base:	Cast iron EN 1561 EN-GJL-200 ASTM A48-25B			
	Impeller:	Stainless steel EN 1.4301 AISI 304			
	Bearing:	SIC			
	Installation:				
	t max amb:	104 °F			
	Maximum operating pressure:	232.06 psi			
	Max pressure at stated temperature: 232 psi / 194 °F 232 psi / -4 °F				
	Type of connection:	ANSI / JIS			
	Size of inlet connection:	DN 50			
	Size of outlet connection:	DN 50			
	Pressure rating for connection:	PN 25			
	Flange rating inlet:	250 lb			
	Flange size for motor:	254TC			
	Electrical data:				
	Motor standard:	NEMA			
	Motor type:	WEG			



		Date:	12/13/2021
Count	Description		
	IE Efficiency class: Rated power - P2: Power (P2) required by pump: Main frequency: Rated voltage: Service factor: Rated current: Starting current: Cos phi - power factor: Rated speed: IE efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor Number: Controls: Frequency converter: Others: DOE Pump Energy Index CL: Net weight: Gross weight: Shipping volume: Country of origin: Custom tariff no.:	IE3 / NEMA Premium 15 HP 15 HP 60 Hz 3 x 208-230/460 V 1.15 38,5-34,8/17,4 A 680-680 % 0.87 3525 rpm IE3 91% 91 % 89.5 % 2 IP55 F 99883247 NONE 0.91 298 lb 384 lb 13.1 ft ³ US 8413.70.2040	



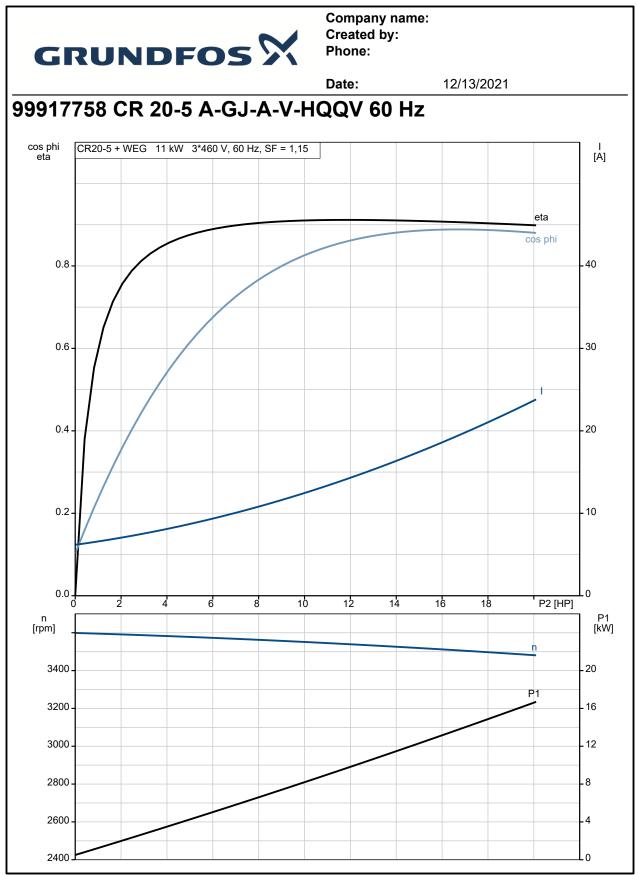




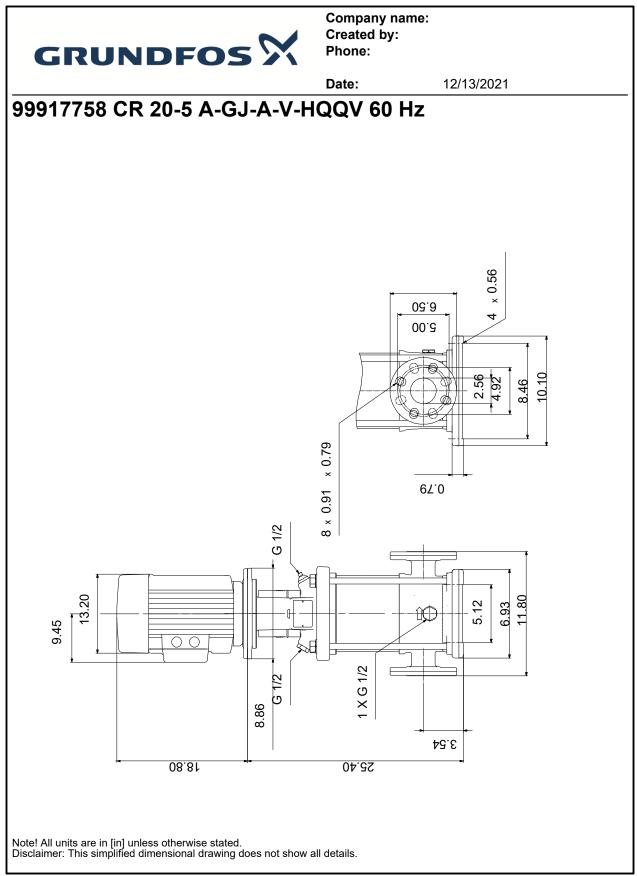
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		Date:	12/13/2021
Description	Value		
Pumped liquid:	Water	_	
Liquid temperature range:	-4 194 °F		
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³		
Electrical data:			
Notor standard:	NEMA		
Motor type:	WEG		
E Efficiency class:	IE3 / NEMA Premium		
Rated power - P2:	15 HP		
Power (P2) required by pump:	15 HP		
Main frequency:	60 Hz		
Rated voltage:	3 x 208-230/460 V		
Service factor:	1.15		
Rated current:	38,5-34,8/17,4 A		
Starting current:	680-680 %		
Full load SF current:	40/20 A		
Cos phi - power factor:	0.87		
Rated speed:	3525 rpm		
IE efficiency:	IE3 91%		
Motor efficiency at full load:	91 %		
Notor efficiency at 3/4 load:	91 %		
Motor efficiency at 1/2 load:	89.5 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	NONE		
Motor Number:	99883247		
Controls:			
Frequency converter:	NONE		
Others:			
DOE Pump Energy Index CL:	0.91		
Net weight:	298 lb		
Gross weight:	384 lb		
Shipping volume:	13.1 ft³		
Country of origin:	US		
Custom tariff no.:	8413.70.2040		



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