

Submittal Data

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



CR 20-2 A-GJ-A-V-HQQV

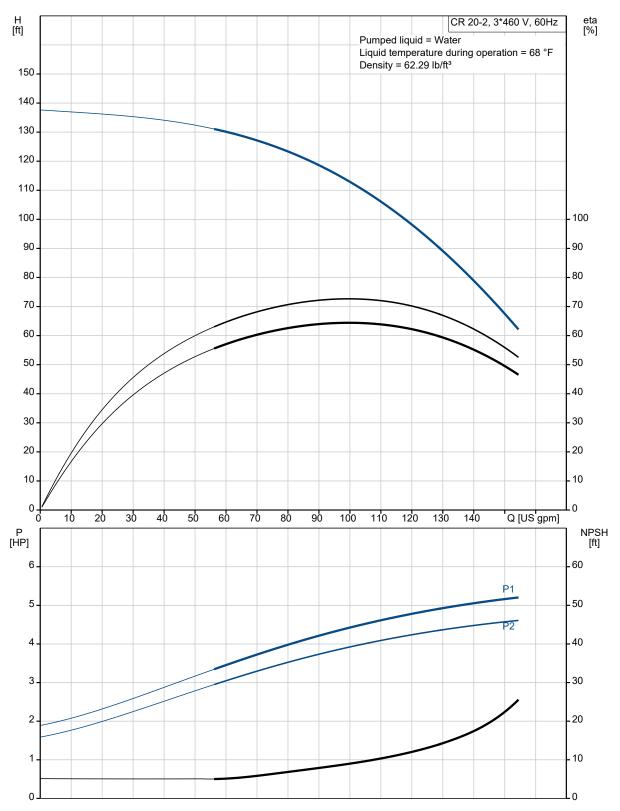
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron. All other wetted parts are in stainless steel (EN 1.4301)(AISI 304)

Product photo could vary from the actual product

Condition	s of Service	Pump Data		Motor	Data
Efficiency:		Max pressure at stated temperature:	232 psi / 194 °F	Rated power - P2:	5 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:	99917755	Insulation class:	F
				Motor protection:	NONE
				Motor type:	WEG
				Eff. 1/1:	88.5 %

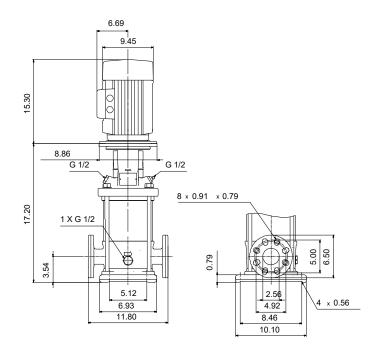
Submittal Data





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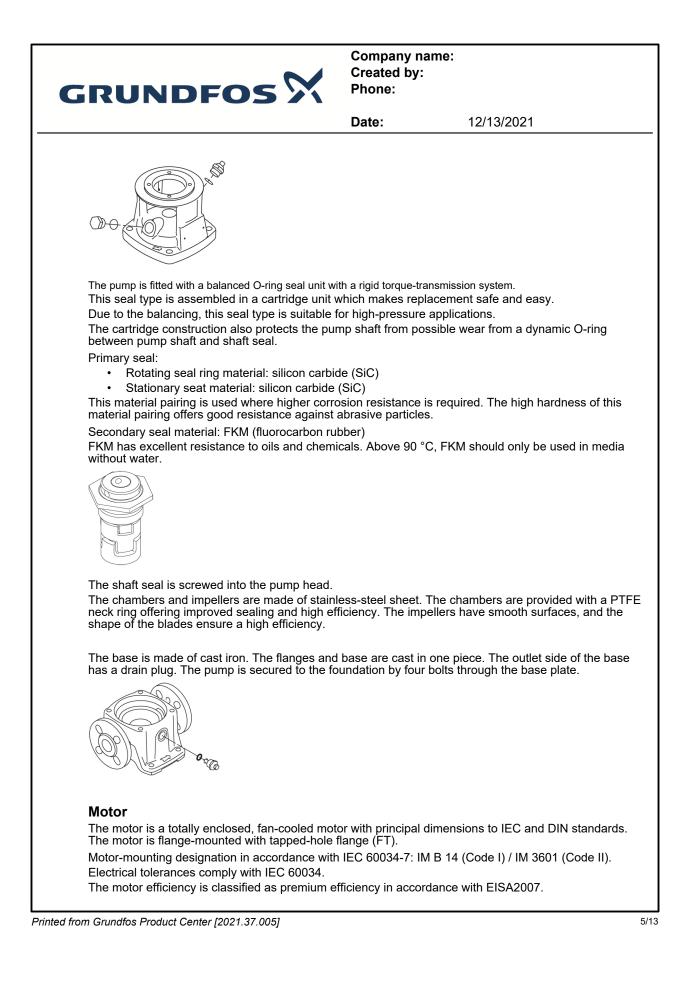


Materials:

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 20-2 A-GJ-A-V-HQQV		
	Product No.: 99917755		
	Vertical, multistage centrifugal pump with inlet a and base are in cast iron – all other wetted parts high reliability, safe handling, and easy access coupling. Pipe connection is via combined ANS	s are in stainless steel. and service. Power tran	A cartridge shaft seal ensures
	The pump is fitted with a 3-phase, fan-cooled as	synchronous motor.	
	Further product details		
	Steel, cast iron and aluminium components hav electro-deposition (CED) process.	e an epoxy-based coat	ing made in a cathodic
	CED is a high-quality dip-painting process wher deposition of paint particles as a thin, well-contr	olled layer on the surfa	und the products ensures ce.
	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 an by means of two coupling guards.	d motor shaft. It is encl	osed in the pump head/motor stool
	The pump head, pump head cover and flange for has a combined 1/2" priming plug and vent scree	or motor mounting is ma w.	ade in one piece. The pump head



GRUNDFOS

Date:

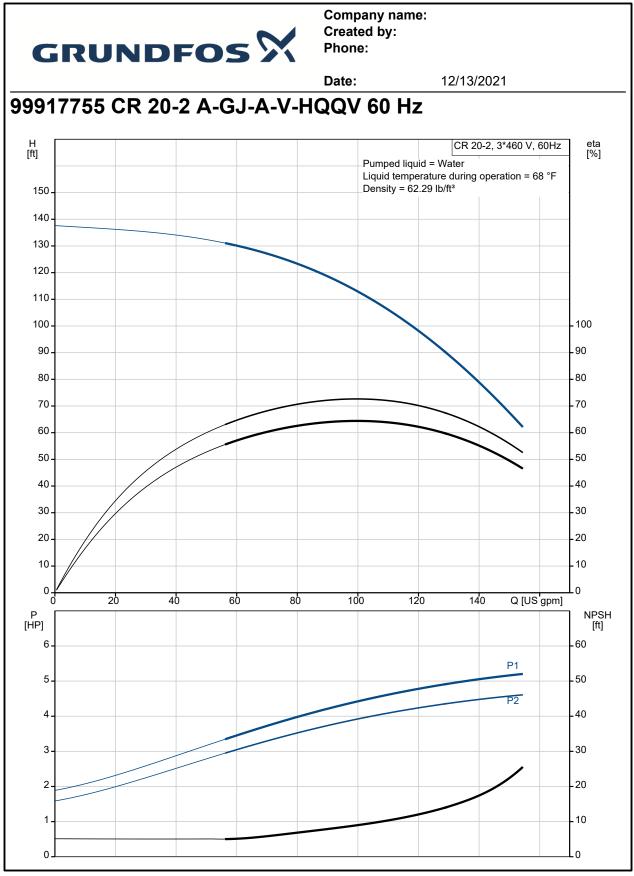
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12/13/2021

ount	Description	
	The motor does not incorporate	motor protection and must be connected to a motor-protective circuit reset. The motor-protective circuit breaker must be set according to the
	rated current of the motor (11/1).	
	The motor can be connected to a point. Grundfos CUE offers a rar Product Center.	a variable speed drive for adjustment of pump performance to any duty nge of variable speed drives. Please find more information in Grundfos
	Technical data	
	Liquid:	Water
	Pumped liquid:	
	Liquid temperature range:	-4 194 °F
	Selected liquid temperature:	68 °F
	Density:	62.29 lb/ft ³
	Technical:	
	Rated pump speed:	3461 rpm
	Rated flow:	111 US gpm
	Rated head:	104 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 temperat	ture: 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:	182TC
	Electrical data:	
	Motor standard:	NEMA
		WEG
	Motor type:	WEG



		Date:	12/13/2021
Count	Description		
Count	DescriptionIE 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: Shipping volume: Country of origin: Custom tariff no.:	IE3 / NEMA Premium 5 HP 5 HP 60 Hz 3 x 208-230/460 V 1.15 13,1-11,8/5,9 A 780-780 % 0.89 3500 rpm IE3 88,5% 88.5 % 87.5 % 2 IP55 F 99882380 NONE 0.91 176 lb 194 lb 8.26 ft ³ US 8413.70.2040	



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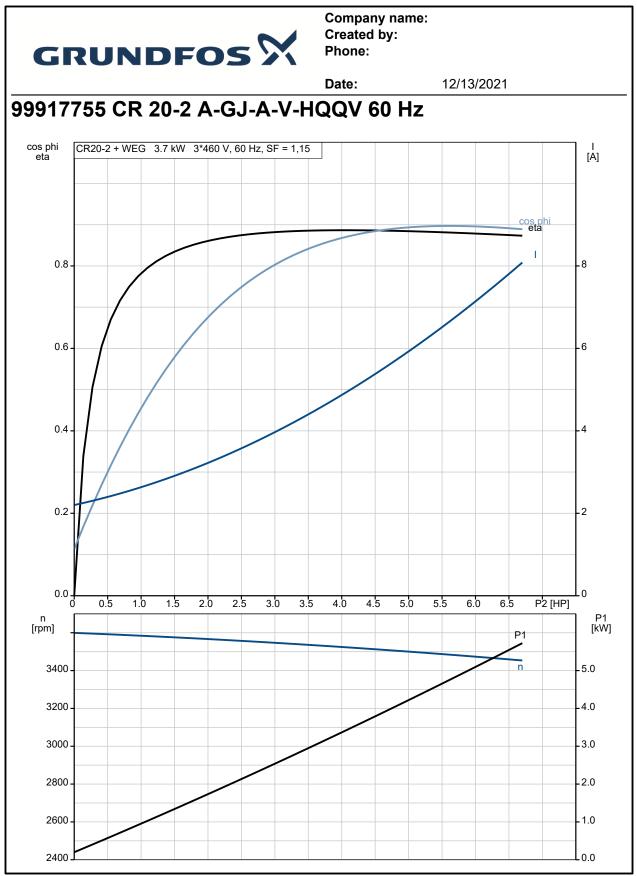


		Date:	12/13/2021
Description	Value	H [ft]	CR 20-2, 3*460 V, 60
General information:		150	Pumped liquid = Water
Product name:	CR 20-2	140 -	Liquid temperature during operation = 68 ° Density = 62.29 lb/ft ³
	A-GJ-A-V-HQQV	130 -	
Product No.:	99917755	120 -	
EAN:	5715114125895	110	
Fechnical:		100 -	
Rated pump speed:	3461 rpm	90 -	
Rated flow:	111 US gpm	80 -	
Rated head:	104 ft	70 -	
Maximum head:	136.5 ft	60 -	
Actual impeller diameter:	4.13 in	50 -	\sim
Stages:	2	40 -	
Impellers:	2	30-	Ý
Number of reduced-diameter	0	20-	
mpellers:	U	10	
Low NPSH:	Ν		20 40 60 80 100 120 Q [US gr
Pump orientation:	Vertical	P [HP]	
Shaft seal arrangement:	Single		
Code for shaft seal:	HQQV	6 -	P1
Approvals:	CURUS	-	P2
Curve tolerance:	ISO9906:2012 3B	4 -	P2
Pump version:	A	_	
Aodel:	A	2-	
Cooling:	IC 411		
Aaterials:		_∎ 0	
Base:	Cast iron		
Base:	EN 1561 EN-GJL-200		9.45
Base:	ASTM A48-25B	— <u>r</u> F	-+-1
mpeller:	Stainless steel	230	
mpeller:	EN 1.4301		
mpeller:	AISI 304	8.86 G 1/2	G 1/2
Material code:			
Code for rubber:	A V	8 ⊑ 1 X G 1/2	8× 0.91 × 0.79
	-		
Bearing: Installation:	SIC	8. 1	
	404 °F	_ ' []	5.12 6.93 4.92 4 x 0.56
max amb:	104 °F		11.80 8.46 10.10
Maximum operating pressure:	232.06 psi		
Max pressure at stated temperature:	232 psi / 194 °F		
Max pressure at stated temperature:	232 psi / -4 °F		
			T4 T5 T6 T4 T5 T6 T1-BLU Q Q Q Q Q T3-ORG T3-ORG
Type of connection:	ANSI / JIS	s as	
Size of inlet connection:	DN 50	LOW	
Size of outlet connection:	DN 50		
Pressure rating for connection:	PN 25		1 L2 L3 \Box L1 L2 L3
Flange rating inlet:	250 lb	INTER	ACHAINGE ANY TWO LINE WIRES TO REVERSE THE ROTATION
Flange size for motor:	182TC		
Connect code:	GJ		
Liquid:			

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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:			
Motor standard:	NEMA		
Motor type:	WEG		
IE Efficiency class:	IE3 / NEMA Premium		
Rated power - P2:	5 HP		
Power (P2) required by pump:	5 HP		
Main frequency:	60 Hz		
Rated voltage:	3 x 208-230/460 V		
Service factor:	1.15		
Rated current:	13,1-11,8/5,9 A		
Starting current:	780-780 %		
Full load SF current:	13.6/6.79 A		
Cos phi - power factor:	0.89		
Rated speed:	3500 rpm		
IE efficiency:	IE3 88,5%		
Motor efficiency at full load:	88.5 %		
Motor efficiency at 3/4 load:	88.5 %		
Motor efficiency at 1/2 load:	87.5 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	NONE		
Motor Number:	99882380		
Controls:			
Frequency converter:	NONE		
Others:			
DOE Pump Energy Index CL:	0.91		
Net weight:	176 lb		
Gross weight:	194 lb		
Shipping volume:	8.26 ft ³		
Country of origin:	US		
Custom tariff no.:	8413.70.2040		



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