

## Submittal Data

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

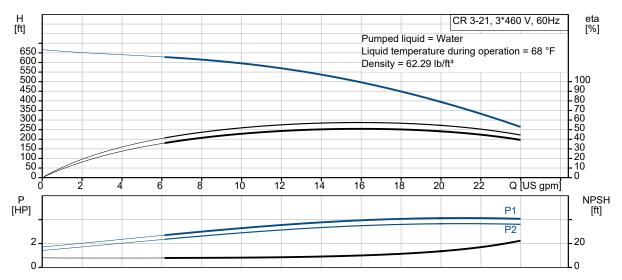


## CR 3-21 A-FGJ-A-E-HQQE

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)

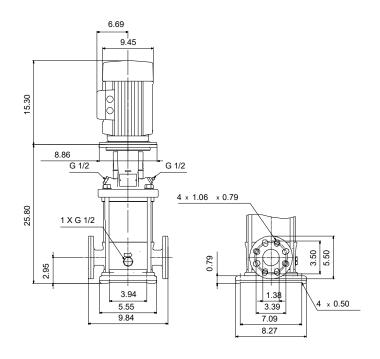
Product photo could vary from the actual product

Conditions of Service		Pump Data		Motor Data		
Efficiency:			Max pressure at stated temperature:	363 psi / 250 °F	Rated power - P2:	5 HP
Liquid:	Water	-	Liquid temperature range:	-4 248 °F	Rated voltage:	208-230/460 V
Temperature:	68 °F		Maximum ambient temperature:	104 °F	Main frequency:	60 Hz
NPSH required:	ft		Approvals:	CURUS,NSF61	Enclosure class:	IP55
Specific Gravity:	1.000		Shaft seal:	HQQE	Insulation class:	F
			Product number:	99916354	Motor protection:	NONE
					Motor type:	WEG
					Eff. 1/1:	88.5 %



## Submittal Data



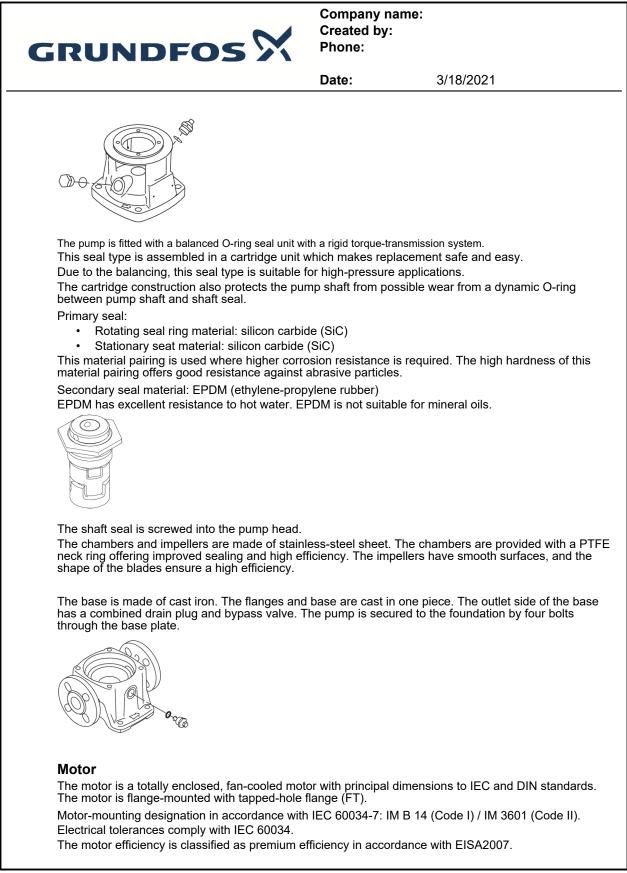


## Materials:

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: Е



	I	Date:	3/18/2021
Count	Description		
1	CR 3-21 A-FGJ-A-E-HQQE		
	Product No.: 99916354		
	Vertical, multistage centrifugal pump with inlet and and base are in cast iron – all other wetted parts a high reliability, safe handling, and easy access and coupling. Pipe connection is via combined DIN-AN	re in stainless steel. I service. Power tran	A cartridge shaft seal ensures
	The pump is fitted with a 3-phase, fan-cooled asyr	chronous motor.	
	Further product details		
	Steel, cast iron and aluminium components have a electro-deposition (CED) process.	n epoxy-based coat	ing made in a cathodic
	CED is a high-quality dip-painting process where a deposition of paint particles as a thin, well-controlled	n electrical field around 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.		
	<ul><li>3) Cathodic electro-deposition.</li><li>4) Curing to a dry film thickness 18-22 my m.</li></ul>		
	The colour code for the finished product is NCS 90	00/RAL 9005.	
	Pump		
	A standard split coupling connects the pump and r by means of two coupling guards.	notor shaft. It is encl	osed in the pump head/motor stool
	Cana logo and and		
	The pump head, pump head cover and flange for r has a combined 1/2" priming plug and vent screw.	notor mounting is ma	ade in one piece. The pump head



<b>GRUNDFOS</b>
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Date:

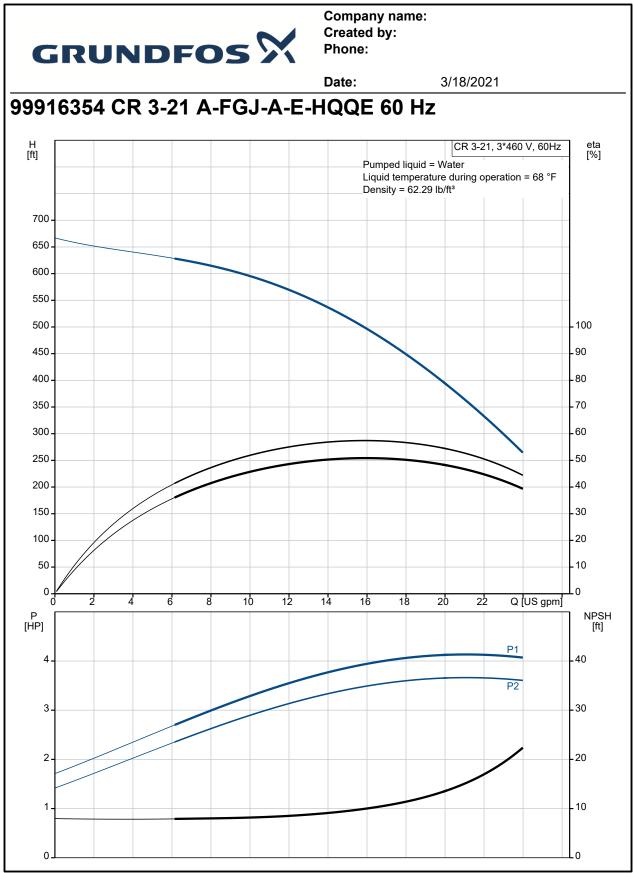
3/18/2021

Count	Description					
	The motor does not incorporate r breaker which can be manually r rated current of the motor (I1/1).	notor protection and must be connected to a motor-protective circuit eset. The motor-protective circuit breaker must be set according to the				
	The motor can be connected to a point. Grundfos CUE offers a ran Product Center.	a variable speed drive for adjustment of pump performance to any duty oge of variable speed drives. Please find more information in Grundfos				
	Technical data					
	Liquid:					
	Pumped liquid:	Water				
	Liquid temperature range:	-4 248 °F				
	Selected liquid temperature:	68 °F				
	Density:	62.29 lb/ft <sup>3</sup>				
	Technical:					
	Rated pump speed:	3461 rpm				
	Rated flow:	15.4 US gpm				
	Rated head:	498.7 ft				
	Pump orientation:	Vertical				
	Shaft seal arrangement:	Single				
	Code for shaft seal: Approvals on nameplate:	HQQE CURUS,NSF61				
	Curve tolerance:	ISO9906:2012 3B				
	Materials:	Oration				
	Base:	Cast iron EN 1561 EN-GJL-200				
		ASTM A48-25B				
	Impeller:	Stainless steel				
		EN 1.4301				
		AISI 304				
	Bearing:	SIC				
		SIC				
	Installation:					
	Maximum ambient temperature:	104 °F				
	Maximum operating pressure:	362.59 psi				
	Max pressure at stated temperat	ure: 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:	182TC				
	Electrical data:					
	Motor standard:	NEMA				
	Motor type:	WEG				

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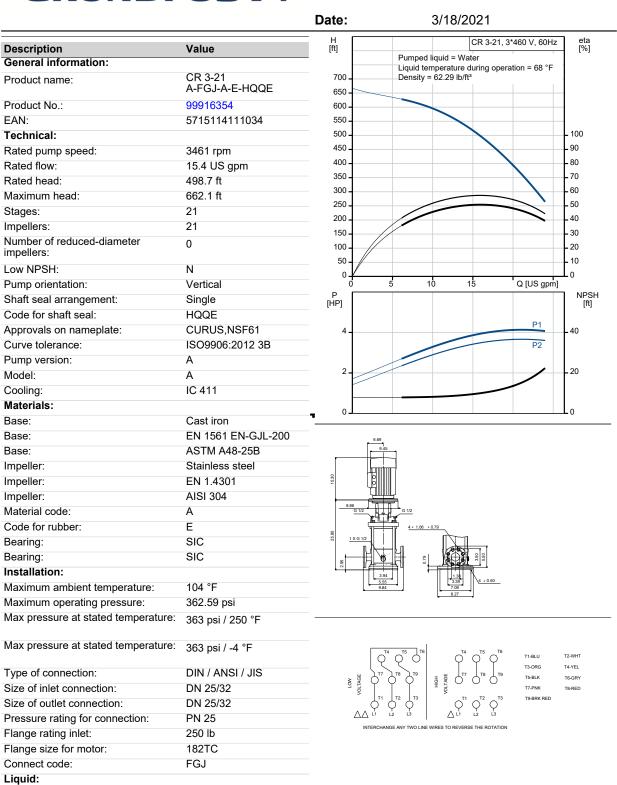


		Date:	3/18/2021
Count	Description		
	IE Efficiency class:	IE3 / NEMA Premium	
	Rated power - P2:	5 HP	
	Power (P2) required by pump:	5 HP	
	Main frequency:	60 Hz	
	Rated voltage:	3 x 208-230/460 V	
	Service factor:	1.15	
	Rated current:	13,1-11,8/5,9 A	
	Starting current:	780-780 %	
	Cos phi - power 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	
	Motor Number:	99882380	
	Controls:		
	Frequency converter:	NONE	
	Others:		
	Net weight:	148 lb	
	Gross weight:	166 lb	
	Shipping volume:	10.1 ft <sup>3</sup>	
	Country of origin:	US	
	Custom tariff no.:	8413.70.2040	



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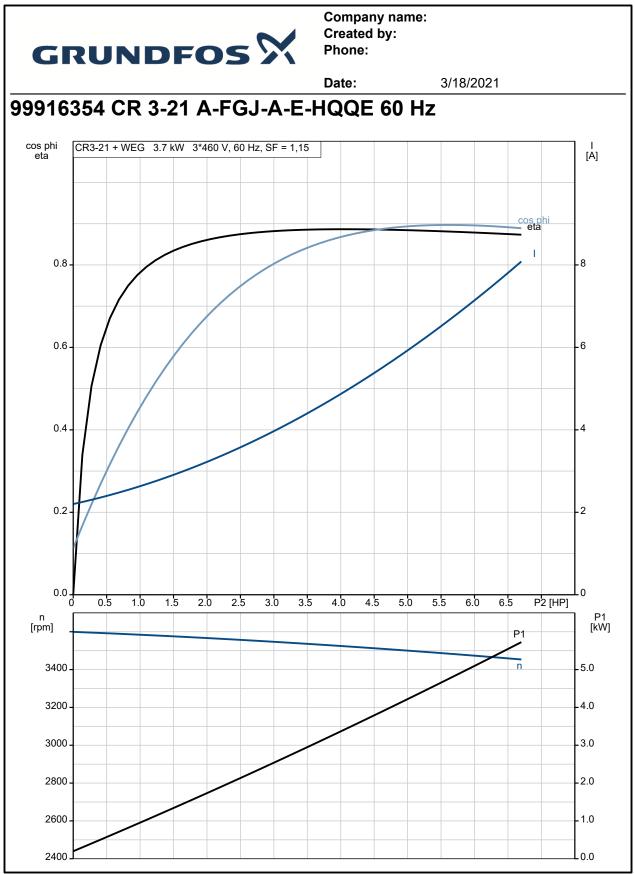




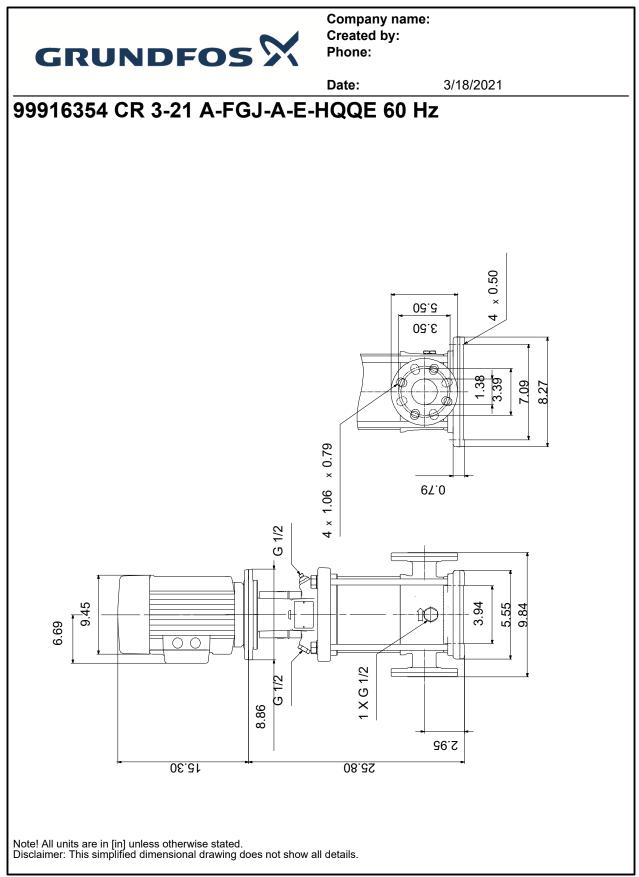
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Description	Value		
Pumped liquid:	Water		
Liquid temperature range:	-4 248 °F		
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft <sup>3</sup>		
Electrical data:			
Motor standard:	NEMA		
Motor type:	WEG		
IE Efficiency class:	IE3 / NEMA Premium		
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 %		
Load 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 %		
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