

Submittal Data

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

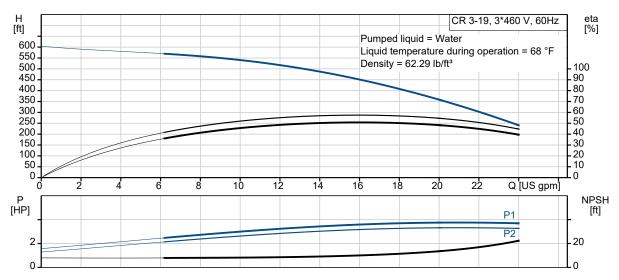


CR 3-19 A-FGJ-A-V-HQQV

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)

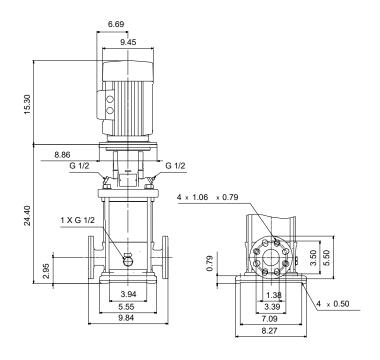
Product photo could vary from the actual product

Conditions	s of Service	Pump Data		Motor	Data
Efficiency:		Max pressure at stated temperature:	363 psi / 194 °F	Rated power - P2:	5 HP
Liquid:	Water	Liquid temperature range:	-4 194 °F	Rated voltage:	208-230/460 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:	99916371	Motor protection:	NONE
				Motor type:	WEG
				Eff. 1/1:	88.5 %



Submittal Data





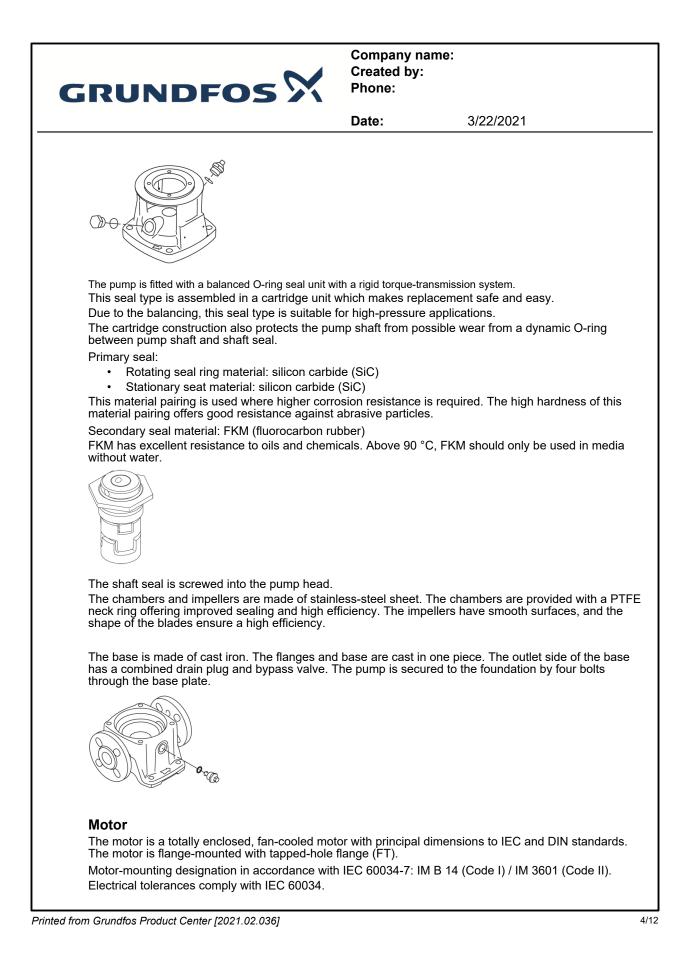
Materials:

Base:CastBase:EN 19Base:ASTMImpeller:StainImpeller:AISI 3Impeller:EN 1Material code:ACode for rubber:V

Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel AISI 304 EN 1.4301 A



		Date:	3/22/2021
Count	Description		
1	CR 3-19 A-FGJ-A-V-HQQV		
	Product No.: 99916371		
	Vertical, multistage centrifugal pump with inlet and and base are in cast iron – all other wetted parts high reliability, safe handling, and easy access a coupling. Pipe connection is via combined DIN-A	are in stainless steel. Ind service. Power tra	A cartridge shaft seal ensures
	The pump is fitted with a 3-phase, fan-cooled as	ynchronous motor.	
	Further product details		
	Steel, cast iron and aluminium components have electro-deposition (CED) process.	e an epoxy-based coa	ting made in a cathodic
	CED is a high-quality dip-painting process where deposition of paint particles as a thin, well-control	e an electrical field aro olled layer on the surfa	ound the products ensures ace.
	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 by means of two coupling guards.	l motor shaft. It is enc	losed in the pump head/motor stool
	Cumo Color Color Color		
	The pump head, pump head cover and flange for has a combined 1/2" priming plug and vent screw	r motor mounting is m N.	ade in one piece. The pump head



Date:

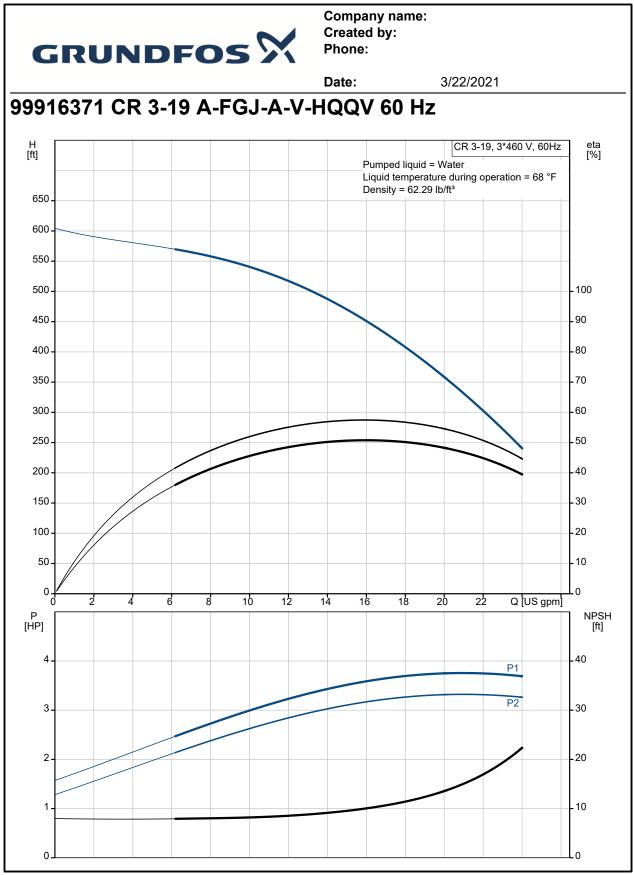
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3/22/2021

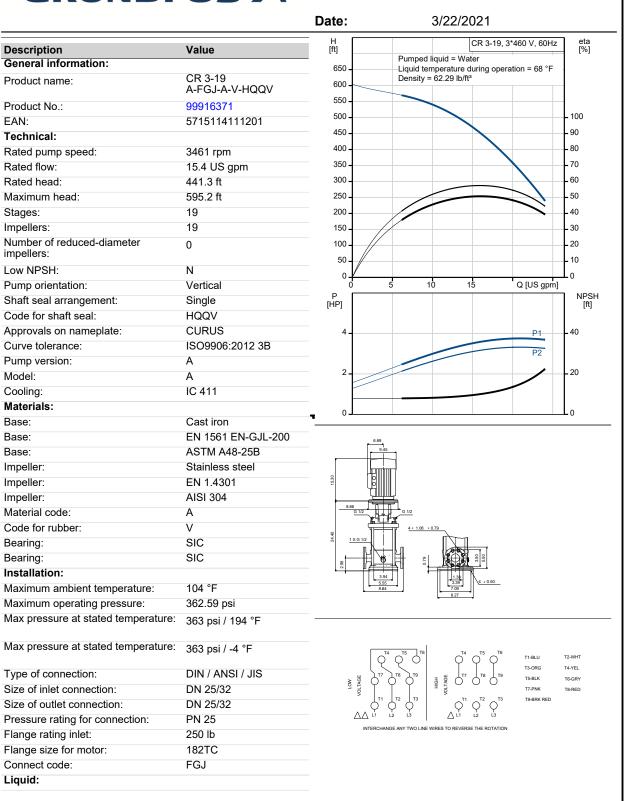
		Dale.	5/22/2021			
:	Description					
	The motor efficiency is classified	as premium efficiency in acco	ordance with EISA2007.			
	The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).					
	The motor can be connected to a point. Grundfos CUE offers a ran Product Center.	variable speed drive for adju ge of variable speed drives. F	stment of pump performance to any dut Please find more information in Grundfos			
	Technical data					
	Liquid:					
	Pumped liquid:	Water				
ĺ	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:	15.4 US gpm				
	Rated head:	441.3 ft				
	Pump orientation:	Vertical				
	Shaft seal arrangement:	Single				
	Code for shaft seal:	HQQV				
	Approvals on nameplate:	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				
		SIC				
	Installation:					
	Maximum ambient temperature:					
	Maximum operating pressure:	362.59 psi				
	Max pressure at stated temperat	ure: 363 psi / 194 °F 363 psi / -4 °F				
	Type of connection:	DIN / ANSI / JIS				
l	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				



		Date:	3/22/2021
Count	Description		
	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 %	
	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 %	
		87.5 %	
	Motor efficiency at 1/2 load:		
	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:	146 lb	
	Gross weight:	164 lb	
	Shipping volume:	10.1 ft ³	
	Country of origin:	US	
	Custom tariff no.:	8413.70.2040	
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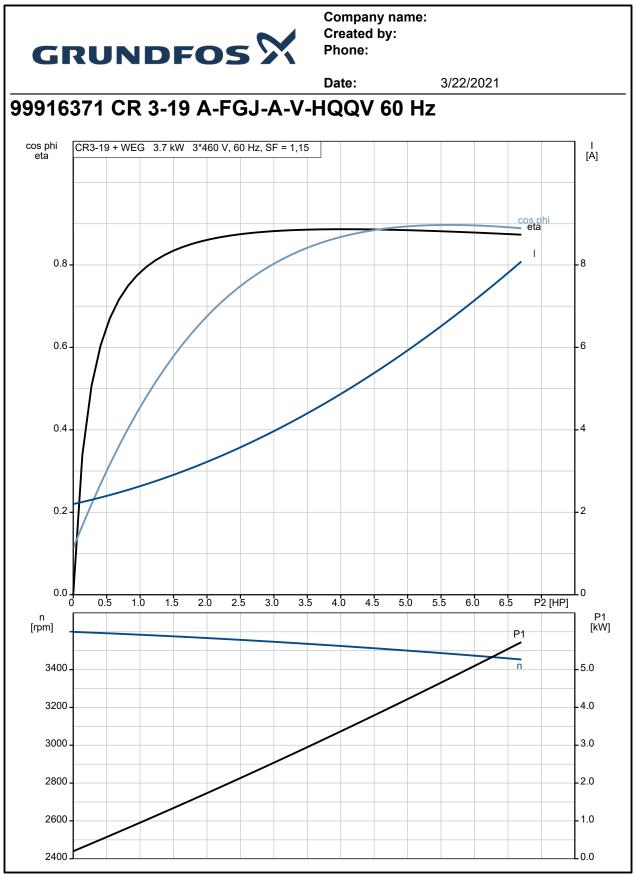




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		Date:	3/22/202
Description	Value		
Pumped liquid:	Water	_	
Liquid temperature range:	-4 194 °F		
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³		
Electrical data:			
Motor standard:	NEMA		
Motor type:	WEG		
IE Efficiency class:	IE3 / 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 %		
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 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protection:	NONE		
Motor Number:	99882380		
Controls:			
Frequency converter:	NONE		
Others:			
Net weight:	146 lb		
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