

## Submittal Data

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

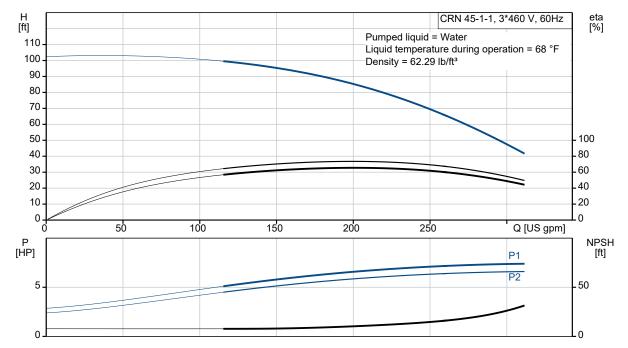


## CRN 45-1-1 A-G-A-E-HQQE

Vertical, multistage centrifugal pump with suction and discharge ports on same the level. Pump materials in contact with the liquid are in high-grade stainless steel (EN 1.4401) (AISI 316)

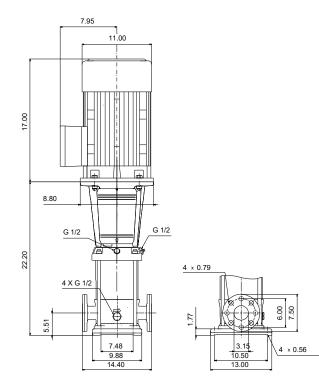
Product photo could vary from the actual product

Condition	s of Service	Pump Data		Motor	Data
Efficiency:		Max pressure at stated temperature:	232 psi / 250 °F	Rated power - P2:	7.5 HP
Liquid:	Water	Liquid temperature range:	-40 248 °F	Rated voltage:	208-230/460 V
Temperature:	68 °F	Maximum ambient temperature:	104 °F	Main frequency:	60 Hz
NPSH required:	ft	Shaft seal:	HQQE	Enclosure class:	IP55
Specific Gravity:	1.000	Product number:	99918203	Insulation class:	F
				Motor protection:	NONE
				Motor type:	WEG
				Eff. 1/1:	89.5 %





## Submittal Data

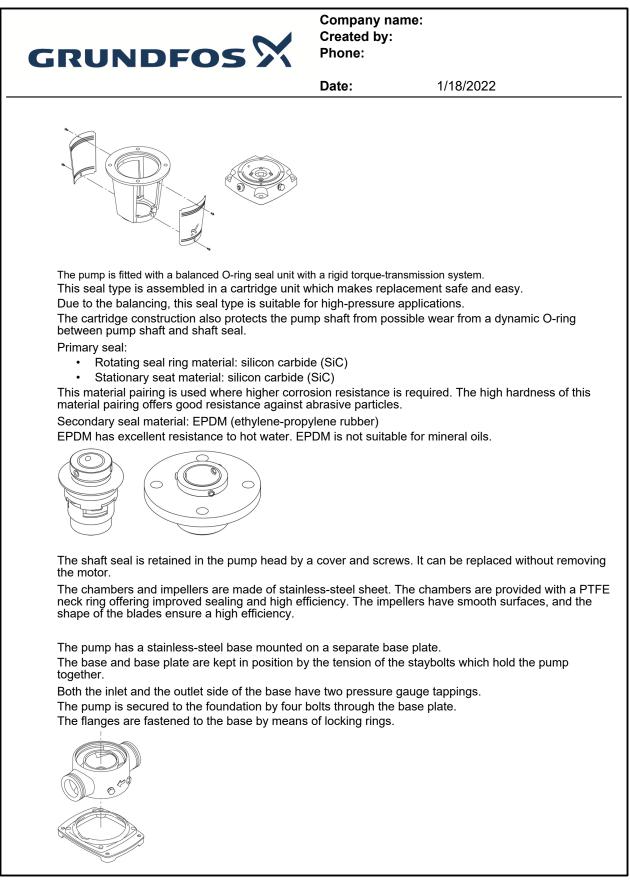


## Materials:

Base:	Stainless steel
Base:	EN 1.4408
Base:	AISI 316
Impeller:	Stainless steel
Impeller:	AISI 316
Impeller:	EN 1.4401
Material code:	A
Code for rubber:	E



Date: 1/18/2022 Count Description 1 CRN 45-1-1 A-G-A-E-HQQE Product No.: 99918203 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade 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 ANSI 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 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 motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and vent screw.



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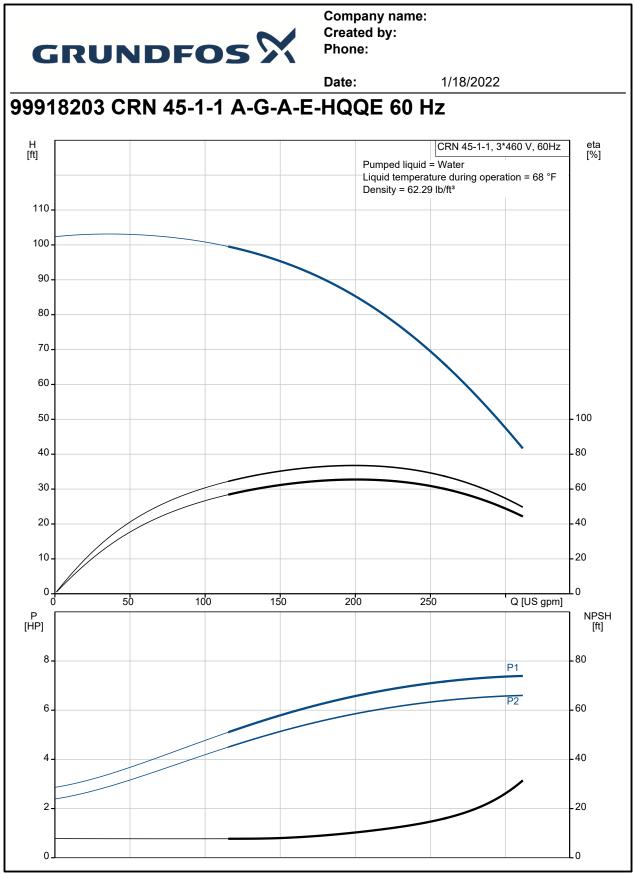


		Date:	1/18/2022
nt	Description		
	Motor		
	The motor is a totally enclosed, The motor is flange-mounted w	fan-cooled motor with principal din the free-hole flange (FF).	nensions to IEC and DIN standards.
	Motor-mounting designation in Electrical tolerances comply wir	accordance with IEC 60034-7: IM E h IEC 60034.	3 5 (Code I) / IM 3001 (Code II).
		d as premium efficiency in accorda	nce with EISA2007.
	The motor does not incorporate breaker which can be manually rated current of the motor (I1/1)	reset. The motor-protective circuit	nected to a motor-protective circuit breaker must be set according to the
	The motor can be connected to point. Grundfos CUE offers a ra Product Center.	a variable speed drive for adjustme nge of variable speed drives. Pleas	ent of pump performance to any dut se find more information in Grundfos
	Technical data		
	Liquid:		
	Pumped liquid:	Water	
	Liquid temperature range:	-40 248 °F	
	Selected liquid temperature:	68 °F	
	Density:	62.29 lb/ft <sup>3</sup>	
	Technical:		
	Rated pump speed:	3467 rpm	
	Rated flow:	238 US gpm	
	Rated head:	72.51 ft 5.34 in	
	Actual impeller diameter: Pump orientation:	5.34 m Vertical	
	Shaft seal arrangement:	Single	
	Code for shaft seal:	HQQE	
	Approvals:	CURUS	
	Approvals for drinking water:	NSF/ANSI 61	
	Curve tolerance:	ISO9906:2012 3B	
	Materials:		
	Base:	Stainless steel	
		EN 1.4408 AISI 316	
	Impeller:	Stainless steel	
		EN 1.4401	
		AISI 316	
	Bearing:	SIC	
	Support bearing:	Graflon	
	Installation:		
	t max amb:	104 °F	
	Maximum operating pressure: Max pressure at stated tempera	232.06 psi hture: 232 psi / 250 °F 232 psi / -40 °F	
	Type of connection:	ANSI	
	Size of suction port:	3 inch	
		0 11011	

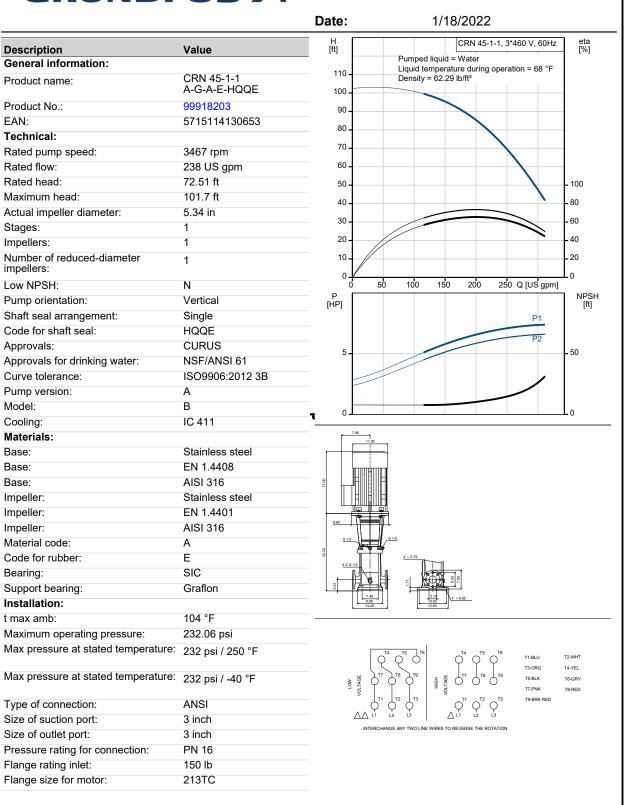
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		Date:	1/18/2022	
unt	Description			
	Size of outlet port:	3 inch		
	Pressure rating for connection:	PN 16		
	Flange rating inlet:	150 lb		
	Flange size for motor:	213TC		
	Electrical data:			
	Motor standard:	NEMA		
	Motor type:	WEG		
	IE Efficiency class:	IE3 / NEMA Premium		
	Rated power - P2:	7.5 HP		
	Power (P2) required by pump:	7.5 HP		
	Main frequency:	60 Hz		
	Rated voltage:	3 x 208-230/460 V		
	Service factor:	1.15		
	Rated current:	19,2-17,3/8,67 A		
	Starting current:	760-760 %		
	Cos phi - power factor:	0.89		
	Rated speed:	3530 rpm		
	IE efficiency:	IE3 89,5%		
	Motor efficiency at full load:	89.5 %		
	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:	99882381		
	Controls:			
	Frequency converter:	NONE		
	Others:			
	DOE Pump Energy Index CL:	0.89		
	Net weight:	262 lb		
	Gross weight:	280 lb		
	Shipping volume:	10.9 ft <sup>3</sup>		
	Country of origin:	US		
	Custom tariff no.:	8413.70.2040		



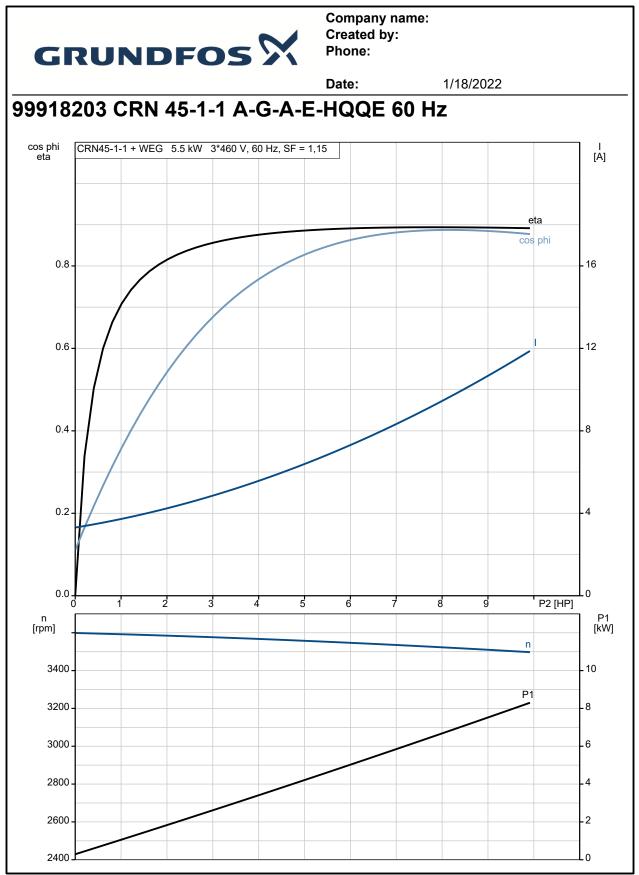




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		Date:	1/18/2022
Description	Value		
Connect code:	G		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-40 248 °F		
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft <sup>3</sup>		
Electrical data:			
Motor standard:	NEMA		
Motor type:	WEG		
IE Efficiency class:	IE3 / NEMA Premium		
Rated power - P2:	7.5 HP		
Power (P2) required by pump:	7.5 HP		
Main frequency:	60 Hz		
Rated voltage:	3 x 208-230/460 V		
Service factor:	1.15		
Rated current:	19,2-17,3/8,67 A		
Starting current:	760-760 %		
Full load SF current:	19.9/9.97 A		
Cos phi - power factor:	0.89		
Rated speed:	3530 rpm		
IE efficiency:	IE3 89,5%		
Motor efficiency at full load:	89.5 %		
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:	99882381		
Controls:			
Frequency converter:	NONE		
Others:			
DOE Pump Energy Index CL:	0.89		
Net weight:	262 lb		
Gross weight:	280 lb		
Shipping volume:	10.9 ft <sup>3</sup>		
Country of origin:	US		
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