

## Submittal Data

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

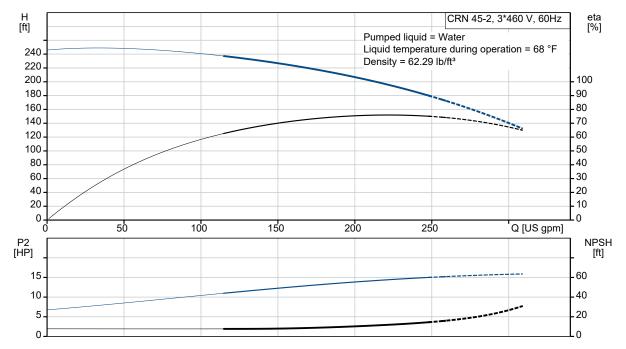


## CRN 45-2 A-G-A-E-HQQE

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)

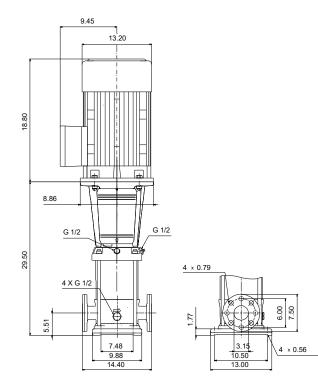
Product photo could vary from the actual product

Temperature:   68 °F   Maximum ambient temperature:   104 °F   Main frequency:   60 Hz	
Temperature:   68 °F   Maximum ambient temperature:   104 °F   Main frequency:   60 Hz	
	0/460 V
NPSH required: ft Shaft seal: HQQE Enclosure class: IP55	
Specific Gravity: 1.000 Product number: 99918207 Insulation class: F	
Motor protection: NONE	
Motor type: WEG	
Eff. 1/1: 91 %	





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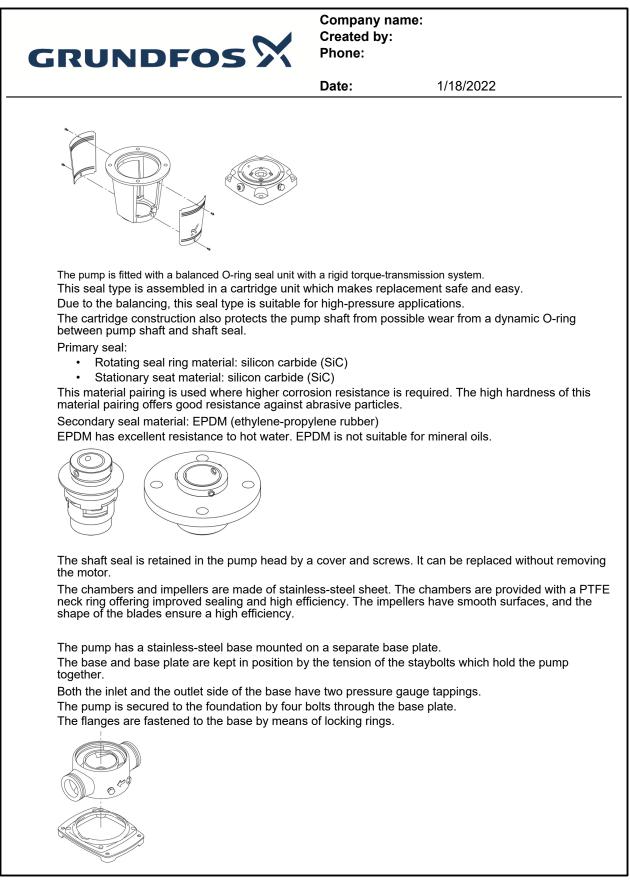


## Materials:

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 45-2 A-G-A-E-HQQE	
	Product No.: 99918207	
	Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pum in contact with the liquid are in high-grade stainless steel. A cartridge shaft seal ensures high safe handling, and easy access and service. Power transmission is via a rigid split coupling. P connection is via ANSI flanges.	reliability,
	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 ensure deposition of paint particles as a thin, well-controlled layer on the surface.	es
	An integral part of the process is a pretreatment. The entire process consists of these elements:	
	1) Alkaline-based cleaning.	
	<ul><li>2) Zinc phosphating.</li><li>3) Cathodic electro-deposition.</li></ul>	
	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 n two coupling guards. The long coupling makes it possible to replace the shaft seal without ren motor from the pump.	າeans of າoving the
	The motor stool connects the pump head and motor. The pump head has a combined 1/2" pri and vent screw.	ming plug



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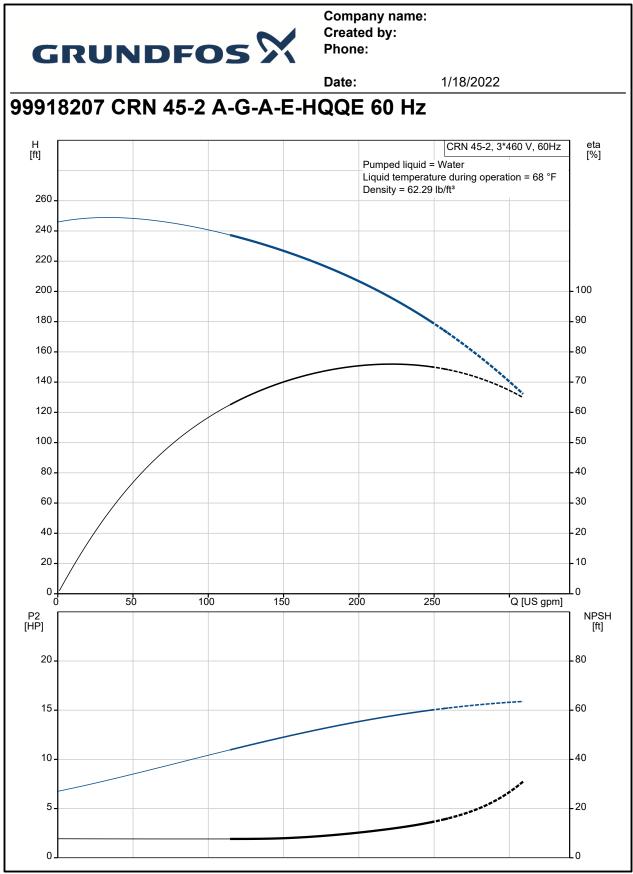


		Date:	1/18/2022
nt	Description		
	Motor		
	The motor is a totally enclosed, The motor is flange-mounted w	fan-cooled motor with principal dir the free-hole flange (FF).	mensions to IEC and DIN standards.
	Motor-mounting designation in Electrical tolerances comply wi	accordance with IEC 60034-7: IM I h IEC 60034.	B 5 (Code I) / IM 3001 (Code II).
		d as premium efficiency in accorda	ance 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	a variable speed drive for adjustm	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:	3444 rpm	
	Rated flow:	238 US gpm	
	Rated head:	177.8 ft	
	Actual impeller diameter:	5.34 in	
	Pump orientation:	Vertical	
	Shaft seal arrangement: Code for shaft seal:	Single HQQE	
	Approvals:	CURUS	
	Approvals. Approvals for drinking water:	NSF/ANSI 61	
	Curve tolerance:	ISO9906:2012 3B	
	Materials:		
	Base:	Stainless steel	
		EN 1.4408	
	Impeller	AISI 316 Stainloss steel	
	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	•	
	Type of connection:	232 psi / -40 °F ANSI	
	Size of suction port:	3 inch	
		5 1101	

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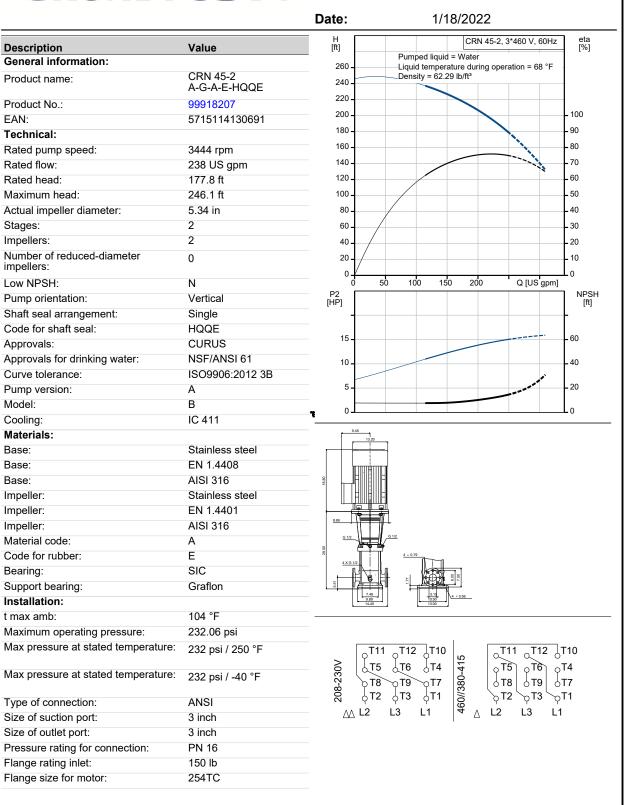


		Date:	1/18/2022
Count	Description		
	Size of outlet port:	3 inch	
	Pressure rating for connection:	PN 16	
	Flange rating inlet:	150 lb	
	Flange size for motor:	254TC	
	Electrical data:		
	Motor standard:	NEMA	
	Motor type:	WEG	
	IE Efficiency class:	IE3 / NEMA Premium	
	Rated power - P2:	15 HP	
	Power (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 %	
	Cos phi - power factor:	0.87	
	Rated speed:	3525 rpm	
	IE efficiency:	IE3 91%	
	Motor efficiency at full load:	91 %	
	Motor 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	
	Motor Number:	99883247	
	Controls:		
	Frequency converter:	NONE	
	Others:		
	DOE Pump Energy Index CL:	0.89	
	Net weight:	390 lb	
	Gross weight:	408 lb	
	Shipping volume:	29 ft <sup>3</sup>	
	Country of origin:	US	
	Custom tariff no.:	8413.70.2040	
		0110.10.2010	



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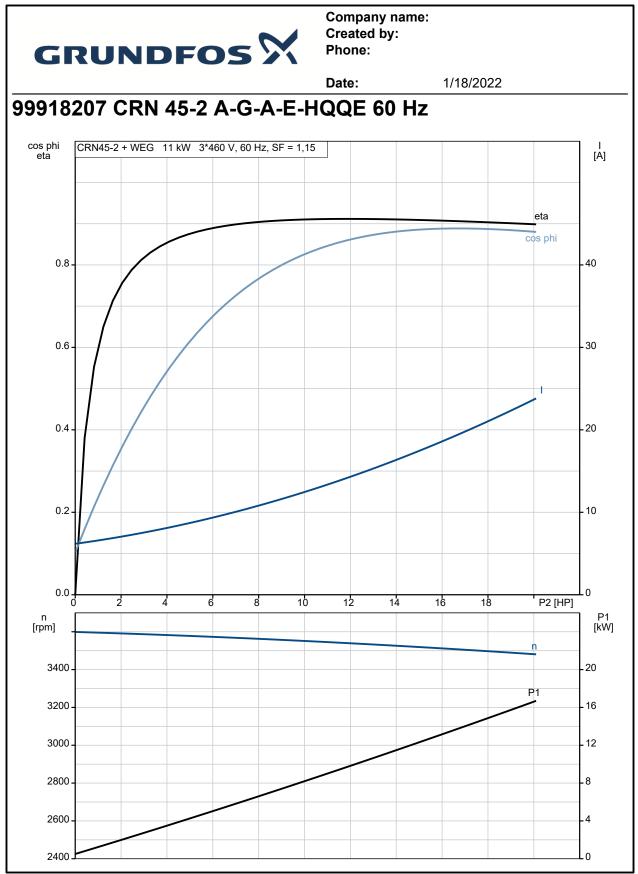




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		Date:	1/18/2022
Description	Value		
Connect code:	G	_	
iquid:			
Pumped liquid:	Water		
iquid temperature range:	-40 248 °F		
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft <sup>3</sup>		
Electrical data:			
Motor standard:	NEMA		
Motor type:	WEG		
IE Efficiency class:	IE3 / NEMA Premium		
Rated power - P2:	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 %		
Motor 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:	0.89		
Net weight:	390 lb		
Gross weight:	408 lb		
Shipping volume:	29 ft <sup>3</sup>		
Country of origin:	US		
Custom tariff no.:	8413.70.2040		



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