

Submittal Data

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

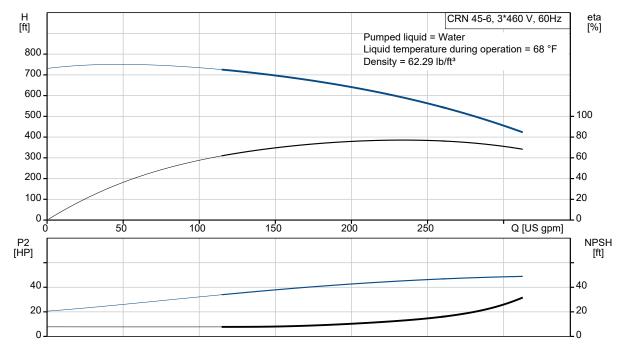


CRN 45-6 A-G-A-E-HQQE

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)

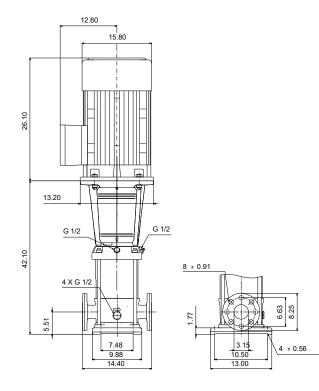
Product photo could vary from the actual product

Conditions of Service		Pump Data		Motor Data	
Efficiency:		Max pressure at stated temperature:	435 psi / 250 °F	Rated power - P2:	50 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:	99918218	Insulation class:	F
				Motor protection:	NONE
				Motor type:	WEG
				Eff. 1/1:	93 %





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





Product No.: 99918218

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.

1/24/2022

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:

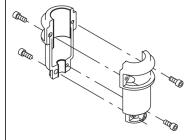
- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.

4) Curing to a dry film thickness 18-22 my m.

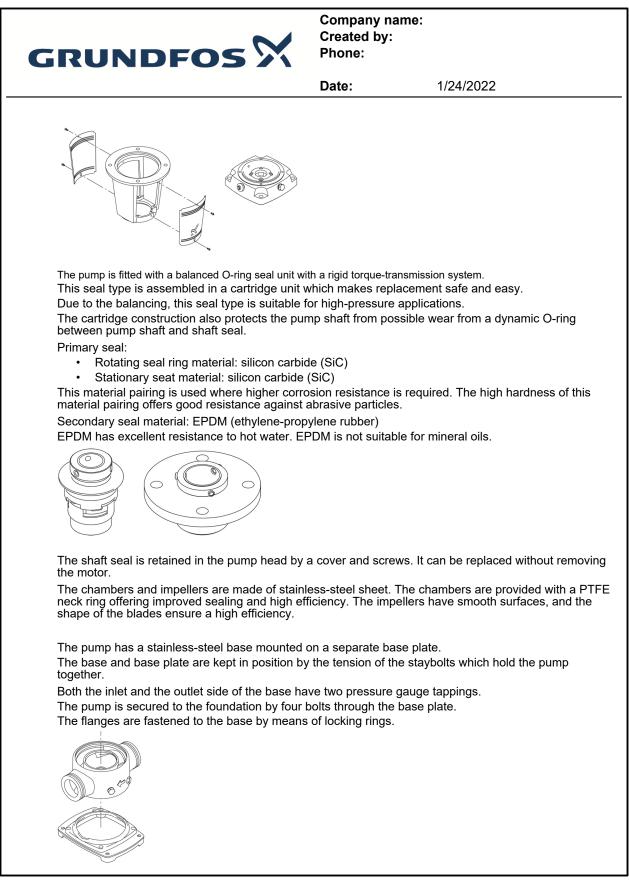
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



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:

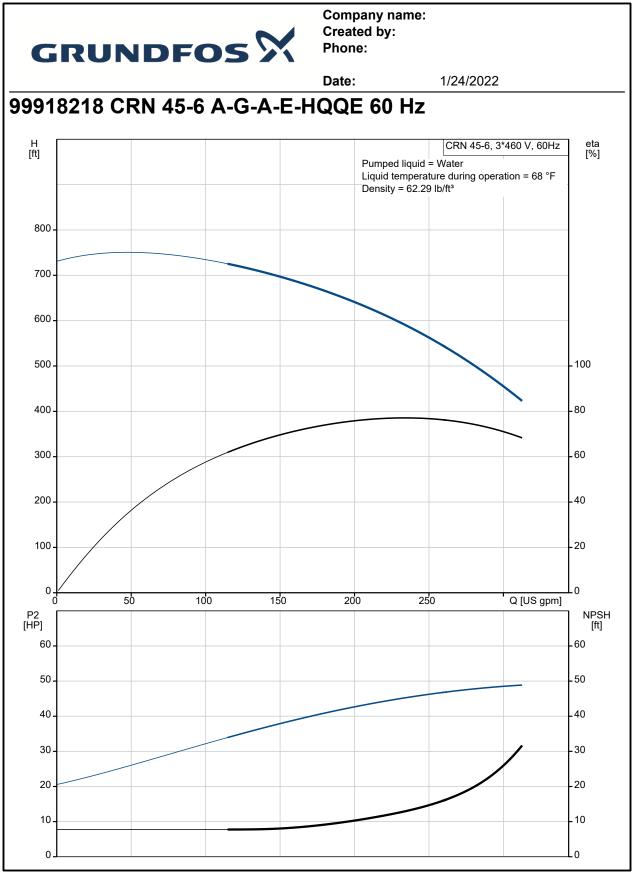
1/24/2022

		Date:	1/24/2022			
nt	Description					
	Motor					
	The motor is a totally enclosed, The motor is flange-mounted w	The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).				
	Electrical tolerances comply wit	accordance with IEC 60034-7: IM I h IEC 60034. d as premium efficiency in accorda				
	The motor does not incorporate	motor protection and must be cor 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 adjustment of pump performance to any dut point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.					
	Technical data					
	Liquid:					
	Pumped liquid:	Water				
	Liquid temperature range:	-40 248 °F				
	Selected liquid temperature:	68 °F				
	Density:	62.29 lb/ft ³				
	Technical:					
	Rated pump speed:	3550 rpm				
	Rated flow:	238 US gpm				
	Rated head:	579.1 ft 5.34 in				
	Actual impeller diameter: Pump orientation:	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				
	Beering	AISI 316				
	Bearing: Support bearing:	SIC Graflon				
	Installation:					
	t max amb:	104 °F				
	Maximum operating pressure:	435.11 psi				
	Max pressure at stated tempera					
	Type of connection:	ANSI				
	Size of suction port:	3 inch				
	·					

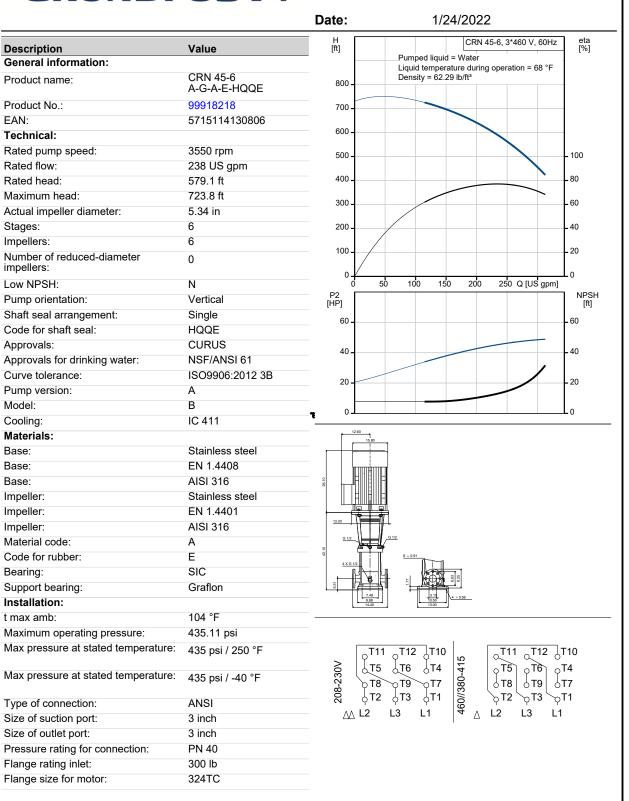
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		Date:	1/24/2022
unt	Description		
	Size of outlet port:	3 inch	
	Pressure rating for connection:	PN 40	
	Flange rating inlet:	300 lb	
	Flange size for motor:	324TC	
	Electrical data:		
	Motor standard:	NEMA	
	Motor type:	WEG	
	IE Efficiency class:	IE3 / NEMA Premium	
	Rated power - P2:	50 HP	
	Power (P2) required by pump:	50 HP	
	Main frequency:	60 Hz	
	Rated voltage:	3 x 208-230/460 V	
	Service factor:	1.25	
	Rated current:	124-112/56,1 A	
	Starting current:	620-620 %	
	Cos phi - power factor:	0.89	
	Rated speed:	3550 rpm	
	IE efficiency:	IE3 93%	
	Motor efficiency at full load:	93 %	
	Motor efficiency at 3/4 load:	93 %	
	Motor efficiency at 1/2 load:	93 %	
	Number of poles:	2	
	Enclosure class (IEC 34-5):	IP55	
	Insulation class (IEC 85):	F	
	Motor Number:	99883252	
	Controls:		
	Frequency converter:	NONE	
	Others:	0.00	
	DOE Pump Energy Index CL:	0.89	
	Net weight:	782 lb	
	Gross weight:	800 lb	
	Shipping volume:	39.9 ft ³	
	Country of origin:	US	
	Custom tariff no.:	8413.70.2040	



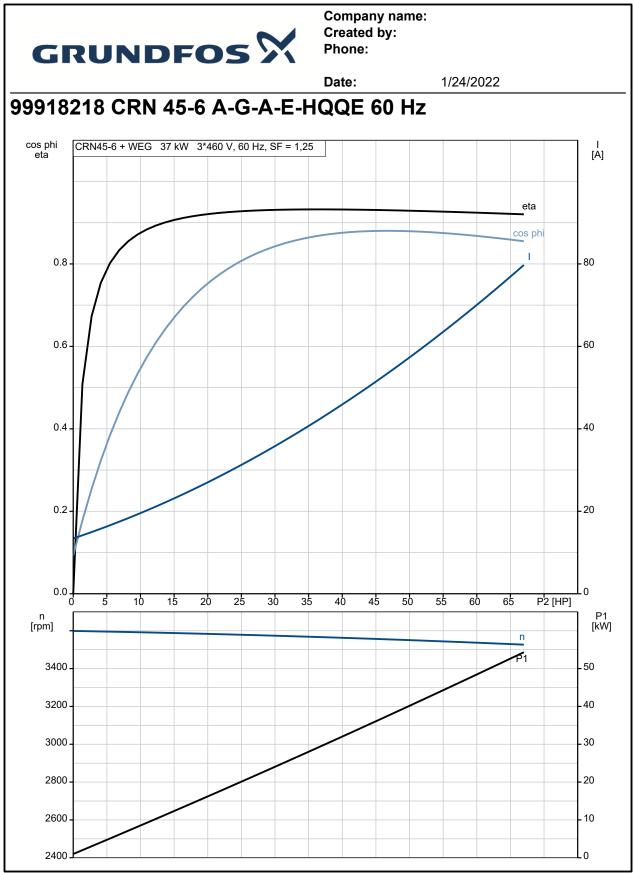




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		Date:	1/24/2022
Description	Value		
Connect code:	G	_	
Liquid:			
Pumped liquid:	Water		
iquid temperature range:	-40 248 °F		
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³		
Electrical data:			
Motor standard:	NEMA		
Motor type:	WEG		
IE Efficiency class:	IE3 / NEMA Premium		
Rated power - P2:	50 HP		
Power (P2) required by pump:	50 HP		
Main frequency:	60 Hz		
Rated voltage:	3 x 208-230/460 V		
Service factor:	1.25		
Rated current:	124-112/56,1 A		
Starting current:	620-620 %		
Full load SF current:	140/70.1 A		
Cos phi - power factor:	0.89		
Rated speed:	3550 rpm		
IE efficiency:	IE3 93%		
Motor efficiency at full load:	93 %		
Motor efficiency at 3/4 load:	93 %		
Motor efficiency at 1/2 load:	93 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	NONE		
Motor Number:	99883252		
Controls:			
Frequency converter:	NONE		
Others:			
DOE Pump Energy Index CL:	0.89		
Net weight:	782 lb		
Gross weight:	800 lb		
Shipping volume:	39.9 ft ³		
Country of origin:	US		
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