

Submittal Data

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

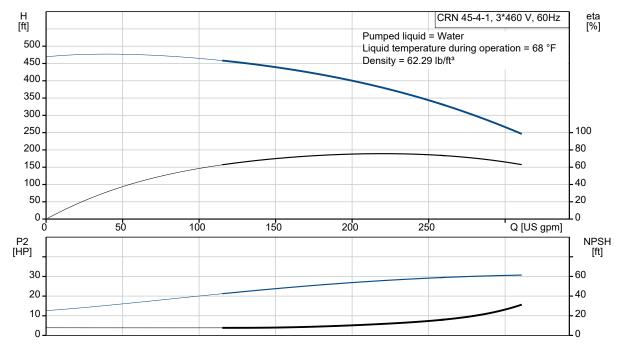


CRN 45-4-1 A-G-A-E-HQQE

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)

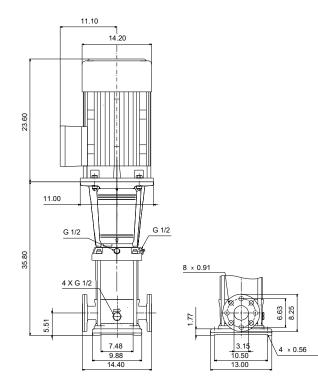
Product photo could vary from the actual product

Conditions	s of Service	Pump Data		Motor	Data
Efficiency:		Max pressure at stated temperature:	435 psi / 250 °F	Rated power - P2:	30 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:	99918212	Insulation class:	F
				Motor protection:	NONE
				Motor type:	WEG
				Eff. 1/1:	91.7 %
				Eff. 1/1:	91.7 %





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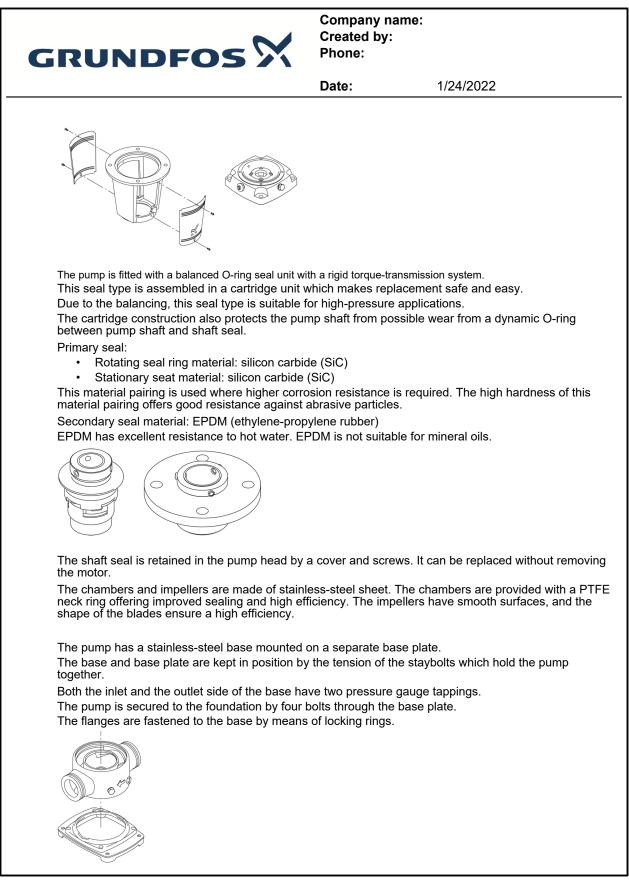


Materials:

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



	Da	ite:	1/24/2022
Count	Description		
1	CRN 45-4-1 A-G-A-E-HQQE		
	Product No.: 99918212		
	Vertical, multistage centrifugal pump with inlet and o in contact with the liquid are in high-grade stainless safe handling, and easy access and service. Power connection is via ANSI flanges.	steel. A cartridge sh	aft seal ensures high reliability,
	The pump is fitted with a 3-phase, fan-cooled asynch	ronous motor.	
	Further product details Steel, cast iron and aluminium components have an electro-deposition (CED) process.	epoxy-based coatir	ng made in a cathodic
	CED is a high-quality dip-painting process where an deposition of paint particles as a thin, well-controlled	electrical field arou layer on the surfac	nd the products ensures e.
	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 900)/RAL 9005.	
	Rump		
	Pump A long split coupling connects the pump and motor s two coupling guards. The long coupling makes it pos motor from the pump.	haft. It is enclosed i sible to replace the	in the motor stool by means of shaft seal without removing the
	and the second s		
	The motor stool connects the pump head and motor and vent screw.	The pump head ha	as a combined 1/2" priming plug



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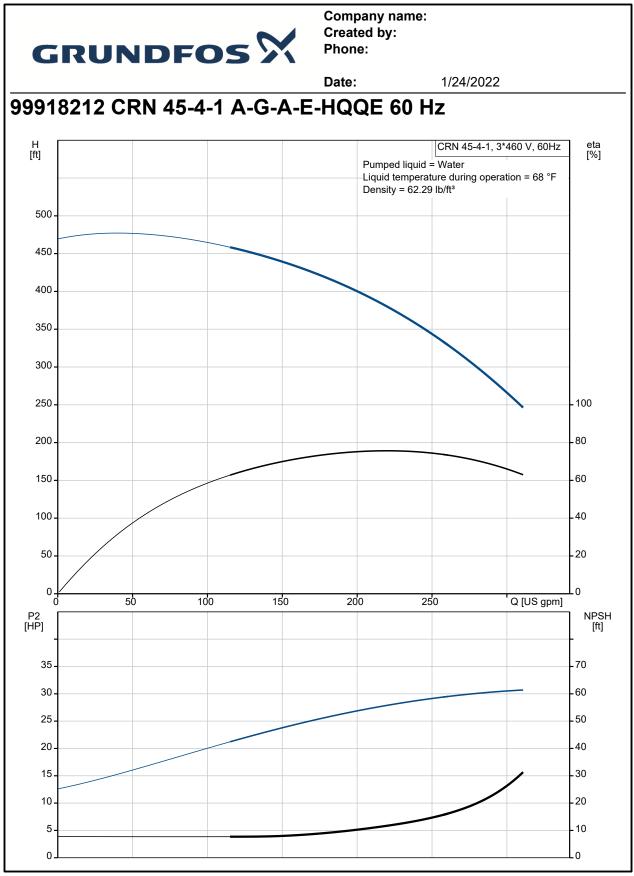


		Date:	1/24/2022		
nt	Description				
	Motor				
	The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).				
	Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II). Electrical tolerances comply with IEC 60034.				
		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 th		
	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 ³			
	Technical:				
	Rated pump speed:	3541 rpm			
	Rated flow:	238 US gpm			
	Rated head:	367.8 ft			
	Actual impeller diameter:	5.34 in			
	Pump orientation:	Vertical			
	Shaft seal arrangement: Code for shaft seal:	Single HQQE			
		CURUS			
	Approvals: Approvals for drinking water:	NSF/ANSI 61			
	Curve tolerance:	ISO9906:2012 3B			
	Materials:				
	Base:	Stainless steel			
		EN 1.4408			
	Impeller	AISI 316 Steinless 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	435.11 psi hture: 435 psi / 250 °F 435 psi / -40 °F			
	Type of connection:	ANSI			
	Size of suction port:	3 inch			
		0 11011			

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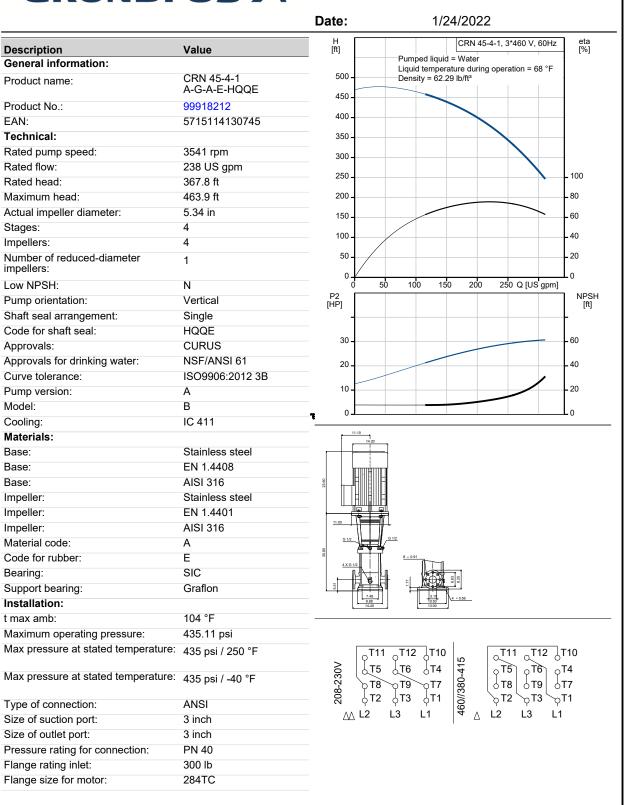


		Date:	1/24/2022
unt	Description		
	Size of outlet port:	3 inch	
	Pressure rating for connection:	PN 40	
	Flange rating inlet:	300 lb	
	Flange size for motor:	284TC	
	Electrical data:		
	Motor standard:	NEMA	
	Motor type:	WEG	
	IE Efficiency class:	IE3 / NEMA Premium	
	Rated power - P2:	30 HP	
	Power (P2) required by pump:	30 HP	
	Main frequency:	60 Hz	
	Rated voltage:	3 x 208-230/460 V	
	Service factor:	1.25	
	Rated current:	73,8-67,6/33,8 A	
	Starting current:	630-630 %	
	Cos phi - power factor:	0.89	
	Rated speed:	3540 rpm	
	IE efficiency:	IE3 91,7%	
	Motor efficiency at full load:	91.7 %	
	Motor efficiency at 3/4 load:	91.7 %	
	Motor efficiency at 1/2 load:	91.7 %	
	Number of poles:	2	
	Enclosure class (IEC 34-5):	L IP55	
	Insulation class (IEC 85):	F	
	Motor Number:	99882384	
		00002001	
	Controls:		
	Frequency converter:	NONE	
	Others:		
	DOE Pump Energy Index CL:	0.89	
	Net weight:	581 lb	
	Gross weight:	598 lb	
	Shipping volume:	29 ft ³	
	Country of origin:	US	
	Custom tariff no.:	8413.70.2040	
		0410.70.2040	



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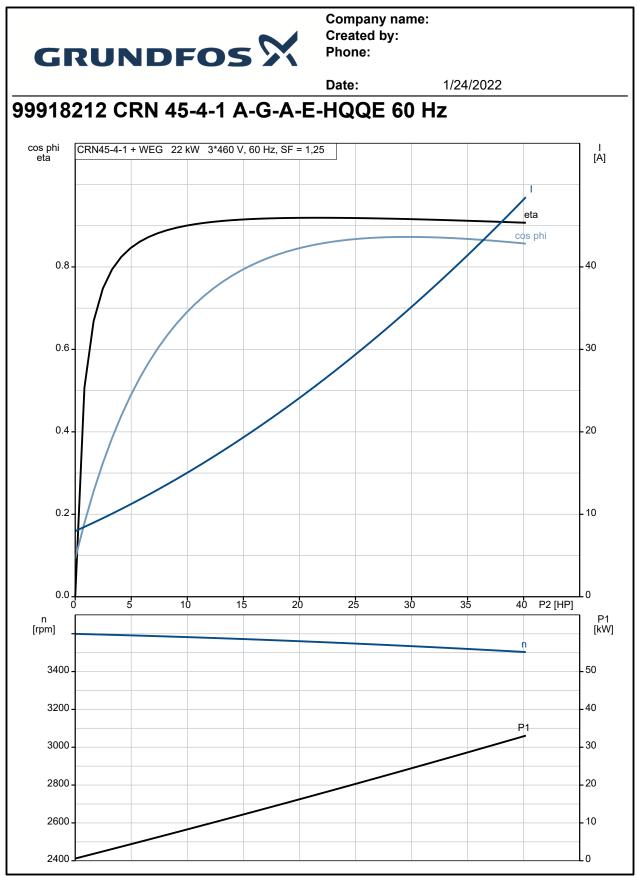




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		Date:	1/24/2022
Description	Value		
Connect code:	G		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-40 248 °F		
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³		
Electrical data:			
Motor standard:	NEMA		
Motor type:	WEG		
IE Efficiency class:	IE3 / NEMA Premium		
Rated power - P2:	30 HP		
Power (P2) required by pump:	30 HP		
Main frequency:	60 Hz		
Rated voltage:	3 x 208-230/460 V		
Service factor:	1.25		
Rated current:	73,8-67,6/33,8 A		
Starting current:	630-630 %		
Full load SF current:	84.5/42.3 A		
Cos phi - power factor:	0.89		
Rated speed:	3540 rpm		
IE efficiency:	IE3 91,7%		
Motor efficiency at full load:	91.7 %		
Motor efficiency at 3/4 load:	91.7 %		
Motor efficiency at 1/2 load:	91.7 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	NONE		
Motor Number:	99882384		
Controls:			
Frequency converter:	NONE		
Others:			
DOE Pump Energy Index CL:	0.89		
Net weight:	581 lb		
Gross weight:	598 lb		
Shipping volume:	29 ft ³		
Country of origin:	US		
Custom tariff no.:	8413.70.2040		



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