

Submittal Data

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



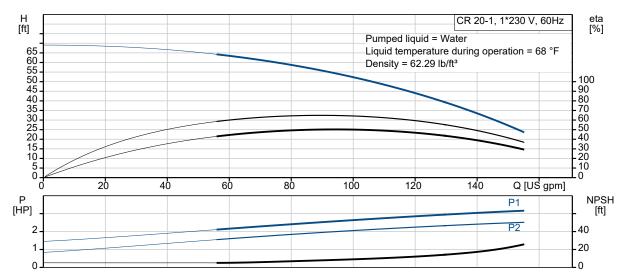
Product photo could vary from the actual product

CR 20-1 A-GJ-A-E-HQQE

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)

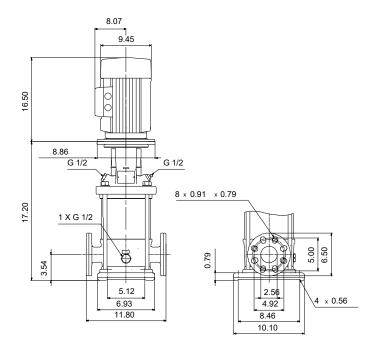
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Conditions of Service			Pump Data			
Efficiency:			Max pressure at stated temperature:	232 psi / 250 °F		
Liquid:	Water	-	Liquid temperature range:	-4 248 °F		
Temperature:	68 °F		Maximum ambient temperature:	104 °F		
NPSH required:	ft		Shaft seal:	HQQE		
Specific Gravity:	1.000		Product number:	99917726		

Motor Data						
Rated power - P2:	3 HP					
Rated voltage:	115/208-230 V					
Main frequency:	60 Hz					
Enclosure class:	IP55					
Insulation class:	F					
Motor protection:	PTO					
Motor type:	WEG					
Eff. 1/1:	80.0 %					





Submittal Data



Materials:

Base: Cast iron

Base: EN 1561 EN-GJL-200
Base: ASTM A48-25B
Impeller: Stainless steel

Impeller: AISI 304 Impeller: EN 1.4301

Material code: A Code for rubber: E



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Count | Description

CR 20-1 A-GJ-A-E-HQQE



Product No.: 99917726

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in 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 combined ANSI-JIS flanges.

The pump is fitted with a 1-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.

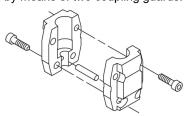
The entire process consists of these elements:

- 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

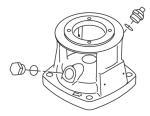
A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



The pump head, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.



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The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system.

This seal type is assembled in a cartridge unit which makes replacement safe and easy.

Due to the balancing, this seal type is suitable for high-pressure applications.

The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.

Primary seal:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

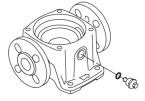
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The base is made of cast iron. The flanges and base are cast in one piece. The outlet side of the base has a drain plug. The pump is secured to the foundation by four bolts through the base plate.



Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with tapped-hole flange (FT).

Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II). Electrical tolerances comply with IEC 60034.



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The motor has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.

Technical data

Liquid:

Liquid temperature range: -4 .. 248 °F Selected liquid temperature: 68 °F

Technical:

Materials:

Installation:

t max amb: 104 °F Maximum operating pressure: 232.06 psi

Max pressure at stated temperature: 232 psi / 250 °F

232 psi / -4 °F

Electrical data:

Power (P2) required by pump: 3 HP Starting current: 700-700 %

Controls:

Frequency converter: NONE

Others:

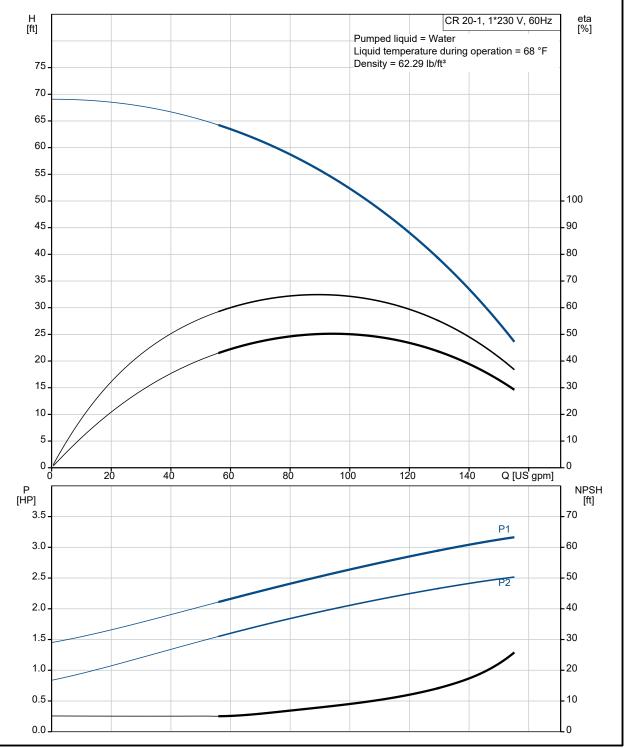
Country of origin: US

Custom tariff no.: 8413.70.2040



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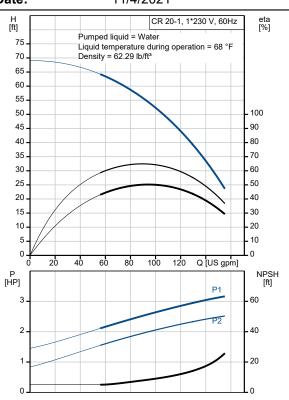
99917726 CR 20-1 A-GJ-A-E-HQQE 60 Hz

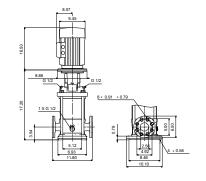


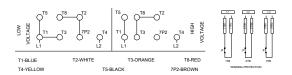


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Description	Value
General information:	
Product name:	CR 20-1 A-GJ-A-E-HQQE
Product No.:	99917726
EAN:	5715114125482
Technical:	
Rated pump speed:	3457 rpm
Rated flow:	111 US gpm
Rated head:	49.54 ft
Maximum head:	66.93 ft
Actual impeller diameter:	4.13 in
Stages:	2
Impellers:	1
Number of reduced-diameter impellers:	0
Low NPSH:	N
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
Pump version:	A
Model:	A
Cooling:	IC 411
Materials:	
Base:	Cast iron
Base:	EN 1561 EN-GJL-200
Base:	ASTM A48-25B
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	Α
Code for rubber:	E
Bearing:	SIC
Installation:	
t max amb:	104 °F
Maximum operating pressure:	232.06 psi
Max pressure at stated temperature:	232 psi / 250 °F
Max pressure at stated temperature:	232 psi / -4 °F
Type of connection:	ANSI / JIS
Size of inlet connection:	DN 50
Size of outlet connection:	DN 50
Pressure rating for connection:	PN 25
Flange rating inlet:	250 lb
Flange size for motor:	182TC
Connect code:	GJ









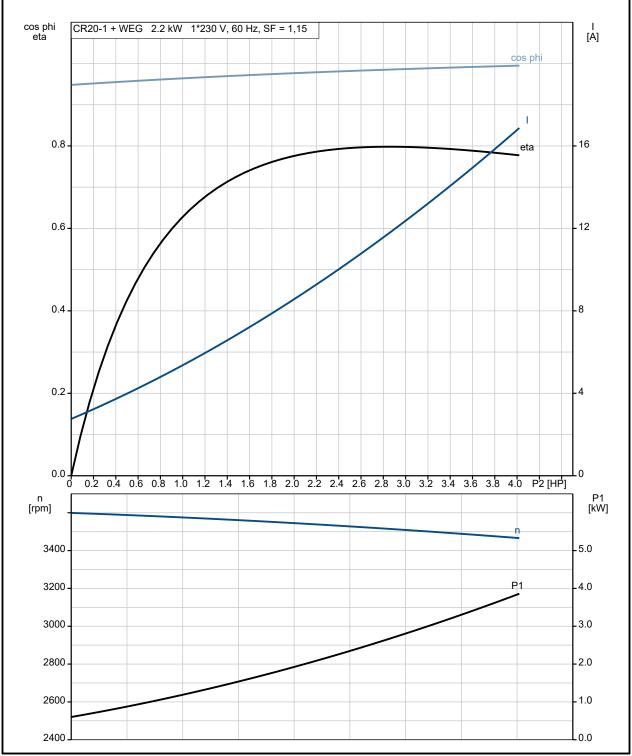
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Description	Value		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-4 248 °F		
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³		
Electrical data:			
Motor standard:	NEMA		
Motor type:	WEG		
Rated power - P2:	3 HP		
Power (P2) required by pump:	3 HP		
Main frequency:	60 Hz		
Rated voltage:	1 x 115/208-230 V		
Service factor:	1.15		
Rated current:	24,2/19,7-12,1 A		
Starting current:	700-700 %		
Full load SF current:	27.8/12.1 A		
Cos phi - power factor:	0.99		
Rated speed:	3510 rpm		
IE efficiency:	80.0%		
Motor efficiency at full load:	80.0 %		
Motor efficiency at 3/4 load:	78.0 %		
Motor efficiency at 1/2 load:	73.0 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	PTO		
Motor Number:	99883322		
Controls:			
Frequency converter:	NONE		
Others:			
DOE Pump Energy Index CL:	0.91		
Net weight:	165 lb		
Gross weight:	251 lb		
Shipping volume:	13.1 ft³		
Country of origin:	US		
Custom tariff no.:	8413.70.2040		



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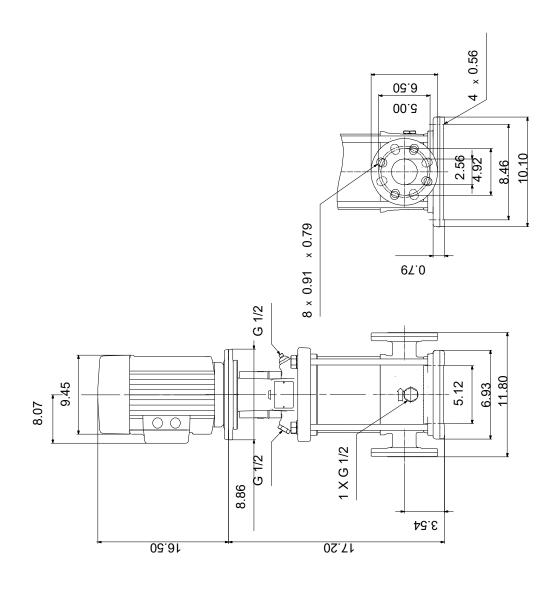
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99917726 CR 20-1 A-GJ-A-E-HQQE 60 Hz



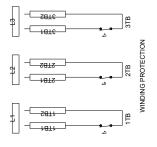
Note! All units are in [in] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.

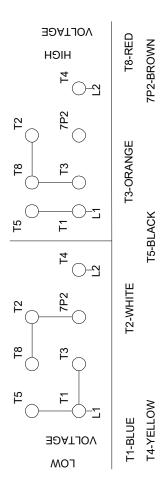


Date:

11/4/2021

99917726 CR 20-1 A-GJ-A-E-HQQE 60 Hz





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