

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 3-2 A-FGJ-A-E-HQQE

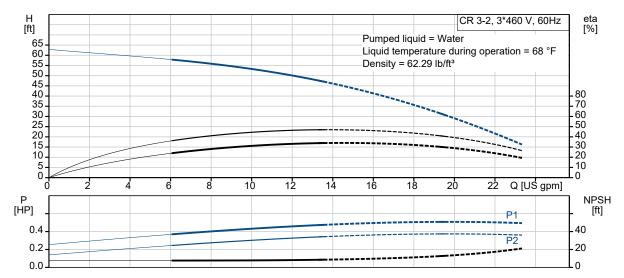
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron. All other wetted parts are in stainless steel (EN 1.4301)(AISI 304)

363 psi / 250 °F

-4 .. 248 °F 104 °F CURUS,NSF61 HQQE 99916339

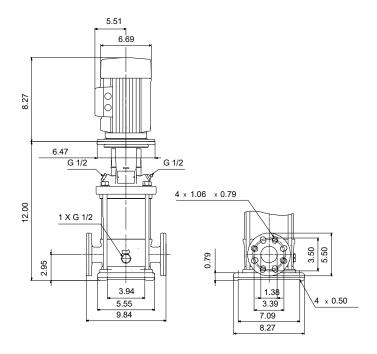
Conditions of Service		Pump Data
Efficiency:		Max pressure at stated temperature:
Liquid:	Water	Liquid temperature range:
Temperature:	68 °F	Maximum ambient temperature:
NPSH required:	ft	Approvals:
Specific Gravity:	1.000	Shaft seal:
		Product number:

Motor Data		
Rated power - P2:	0.33 HP	
Rated voltage:	208-230/460 V	
Main frequency:	60 Hz	
Enclosure class:	IP55	
Insulation class:	F	
Motor protection:	NONE	
Motor type:	WEG	
Eff. 1/1:	72 %	





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



Date: 3/15/2021

Count | Description

1

CR 3-2 A-FGJ-A-E-HQQE



Product No.: 99916339

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 DIN-ANSI-JIS 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.

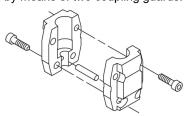
The entire process consists of these elements:

- 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

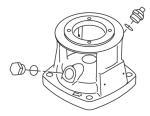
A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



The 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.



Date: 3/15/2021



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 combined drain plug and bypass valve. 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.

The motor efficiency is classified as premium efficiency in accordance with EISA2007.



Date: 3/15/2021

Count | Description

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

Technical data

Liquid:

Pumped liquid: Water
Liquid temperature range: -4 .. 248 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical:

Rated pump speed: 3425 rpm
Rated flow: 15.4 US gpm
Rated head: 44.62 ft
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE

Approvals on nameplate: CURUS,NSF61 Curve tolerance: ISO9906:2012 3B

Materials:

Base: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing: SIC

SIC

Installation:

Maximum ambient temperature: 104 °F
Maximum operating pressure: 362.59 psi

Max pressure at stated temperature: 363 psi / 250 °F

363 psi / -4 °F

Type of connection: DIN / ANSI / JIS

Size of inlet connection: DN 25/32
Size of outlet connection: DN 25/32
Pressure rating for connection: PN 25
Flange rating inlet: 250 lb
Flange size for motor: 56C

Electrical data:

Motor standard: NEMA Motor type: WEG

IE Efficiency class: IE3 / NEMA Premium

Rated power - P2: 0.33 HP Power (P2) required by pump: 0.33 HP



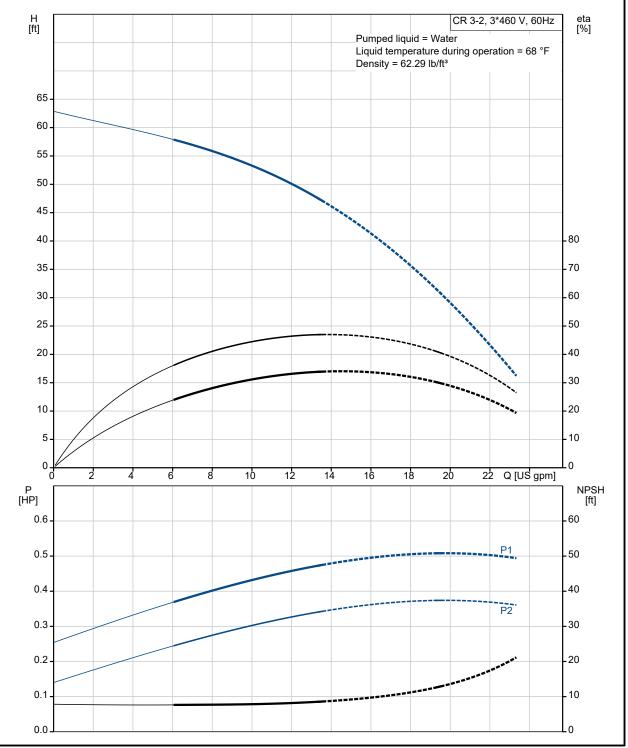
Date: 3/15/2021

Count	Description		
	Main frequency:	60 Hz	
	Rated voltage:	3 x 208-230/460 V	
	Service factor:	1.15	
	Rated current:	1,31-1,15/0,57 A	
	Starting current:	710-710 %	
	Cos phi - power factor:	0.76	
	Rated speed:	3450 rpm	
	IE efficiency:	IE3 72%	
	Motor efficiency at full load:	72 %	
	Motor efficiency at 3/4 load:	66 %	
	Motor efficiency at 1/2 load:	59.5 %	
	Number of poles:	2	
	Enclosure class (IEC 34-5):		
	Insulation class (IEC 85):	F	
	Motor Number:	99883236	
	Motor Hambor.	0000200	
	Controls:		
	Frequency converter:	NONE	
	Others:		
	Net weight:	54.5 lb	
	Gross weight:	65.5 lb	
	Shipping volume:	4.94 ft ³	
	Country of origin:	US	
	Custom tariff no.:	8413.70.2040	



Date: 3/15/2021

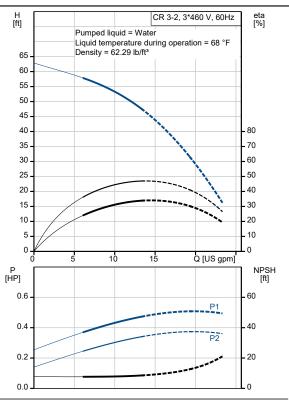
99916339 CR 3-2 A-FGJ-A-E-HQQE 60 Hz

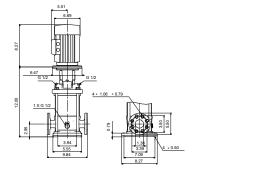


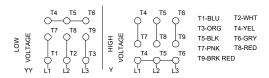


Date: 3/15/2021

Description	Value
General information:	
Product name:	CR 3-2 A-FGJ-A-E-HQQE
Product No.:	99916339
EAN:	5715114110884
Technical:	
Rated pump speed:	3425 rpm
Rated flow:	15.4 US gpm
Rated head:	44.62 ft
Maximum head:	63 ft
Stages:	3
Impellers:	2
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CURUS,NSF61
Curve tolerance:	ISO9906:2012 3B
Pump version:	Α
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:	
Bearing:	SIC
Bearing:	SIC
Installation:	
Maximum ambient temperature:	104 °F
Maximum operating pressure:	362.59 psi
Max pressure at stated temperature:	·
	363 psi / 250 °F
Max pressure at stated temperature:	363 psi / -4 °F
Type of connection:	DIN / ANSI / JIS
Size of inlet connection:	DN 25/32
Size of outlet connection:	DN 25/32
Pressure rating for connection:	PN 25
Flange rating inlet:	250 lb
Flange size for motor:	56C
Connect code:	FGJ
Liquid:	







INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



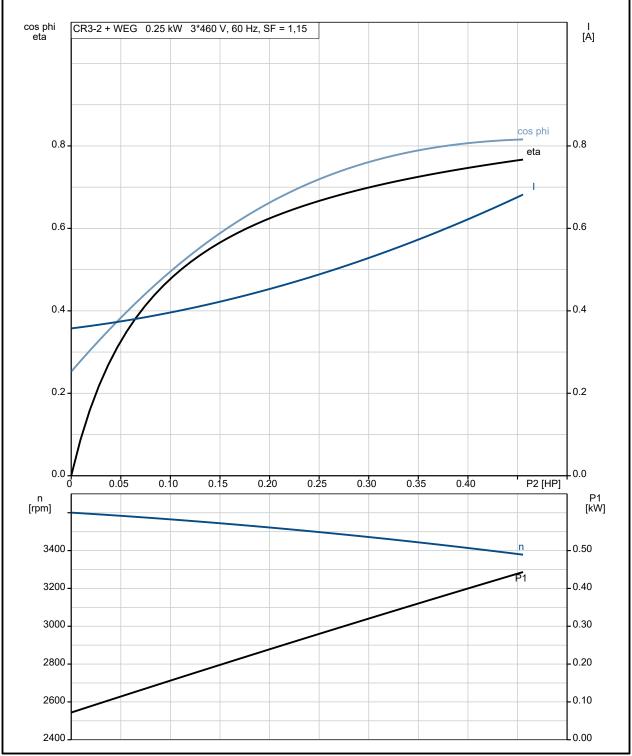
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Description	Value	
Pumped liquid:	Water	
Liquid temperature range:	-4 248 °F	
Selected liquid temperature:	68 °F	
Density:	62.29 lb/ft³	
Electrical data:		
Motor standard:	NEMA	
Motor type:	WEG	
IE Efficiency class:	IE3 / NEMA Premium	
Rated power - P2:	0.33 HP	
Power (P2) required by pump:	0.33 HP	
Main frequency:	60 Hz	
Rated voltage:	3 x 208-230/460 V	
Service factor:	1.15	
Rated current:	1,31-1,15/0,57 A	
Starting current:	710-710 %	
Load current:	1.32/0.66 A	
Cos phi - power factor:	0.76	
Rated speed:	3450 rpm	
IE efficiency:	IE3 72%	
Motor efficiency at full load:	72 %	
Motor efficiency at 3/4 load:	66 %	
Motor efficiency at 1/2 load:	59.5 %	
Number of poles:	2	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Motor protection:	NONE	
Motor Number:	99883236	
Controls:		
Frequency converter:	NONE	
Others:		
Net weight:	54.5 lb	
Gross weight:	65.5 lb	
Shipping volume:	4.94 ft ³	
Country of origin:	US	
Custom tariff no.:	8413.70.2040	



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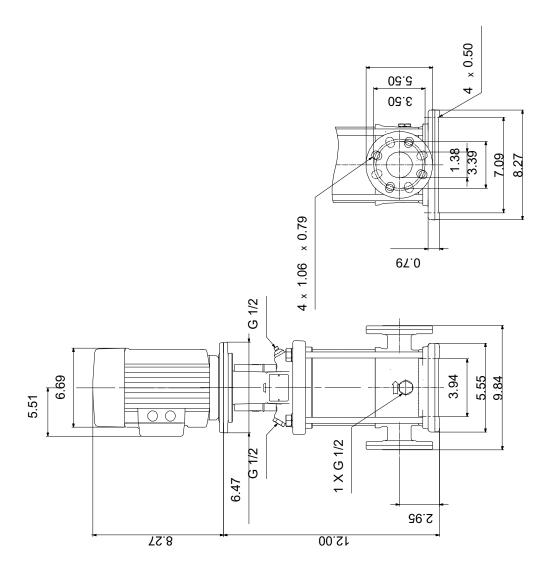
99916339 CR 3-2 A-FGJ-A-E-HQQE 60 Hz





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99916339 CR 3-2 A-FGJ-A-E-HQQE 60 Hz



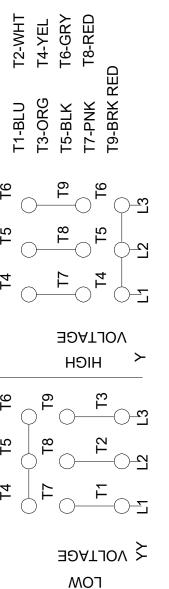
Note! All units are in [in] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

3/15/2021

99916339 CR 3-2 A-FGJ-A-E-HQQE 60 Hz



INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

All units are [in] unless otherwise presented.