

Date: 5/4/2020

Count | Description

CRN 10-16 A-FGJ-A-V-HQQV



Product No.: 96523293

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 combined DIN-ANSI-JIS flanges.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

Further product details

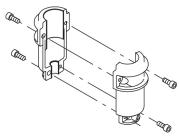
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An 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.

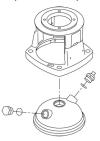
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A 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 pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). 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: FKM (fluorocarbon rubber)

FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.



The shaft seal is screwed into the pump head.

The pump has a special air-cooled shaft-seal chamber generating the same insulation effect as that of a vacuum flask. No external cooling is necessary; the ambient temperature is sufficient. An automatic vent vents the pump seal chamber.

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 pump has a stainless steel base mounted on a separate base plate. This base and base plate are kept in position by the tension of the staybolts which hold the pump together. 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. The flanges and base are cast in one piece and prepared for connection by means of DIN, ANSI or JIS.

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.

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

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).

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty 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: -4 .. 194 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical:



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Rated pump speed: 3444 rpm Rated flow: 53.3 US gpm Rated head: 603.7 ft Actual impeller diameter: 3.66 in Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: **HQQV** Approvals on nameplate: **CURUS**

Curve tolerance: ISO9906:2012 3B

Materials:

Base: Stainless steel

EN 1.4408 AISI 316

Impeller: Stainless steel

EN 1.4401 AISI 316

Bearing: SIC

Installation:

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

Max pressure at stated temperature: 363 psi / 194 °F

363 psi / -4 °F

Type of connection: DIN / ANSI / JIS

Size of inlet connection: DN 50
Size of outlet connection: DN 50
Pressure rating for connection: PN 25
Flange rating inlet: 300 lb
Flange size for motor: 254TC

Electrical data:

Motor standard: NEMA
Motor type: BALDOR

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: 38,0-35,0/17,5 A
Rated speed: 3520 rpm
IE efficiency: IE3 91%
Motor efficiency at full load: 91-91 %
Number of poles: 2

Number of poles: 2
Enclosure class (IEC 34-5): IP54
Insulation class (IEC 85): F

Motor Number: 85600H24

Controls:

Frequency converter: NONE

Others:

DOE Pump Energy Index CL: 0.87

Net weight: 333 lb

Gross weight: 448 lb

Shipping volume: 17.2 ft³

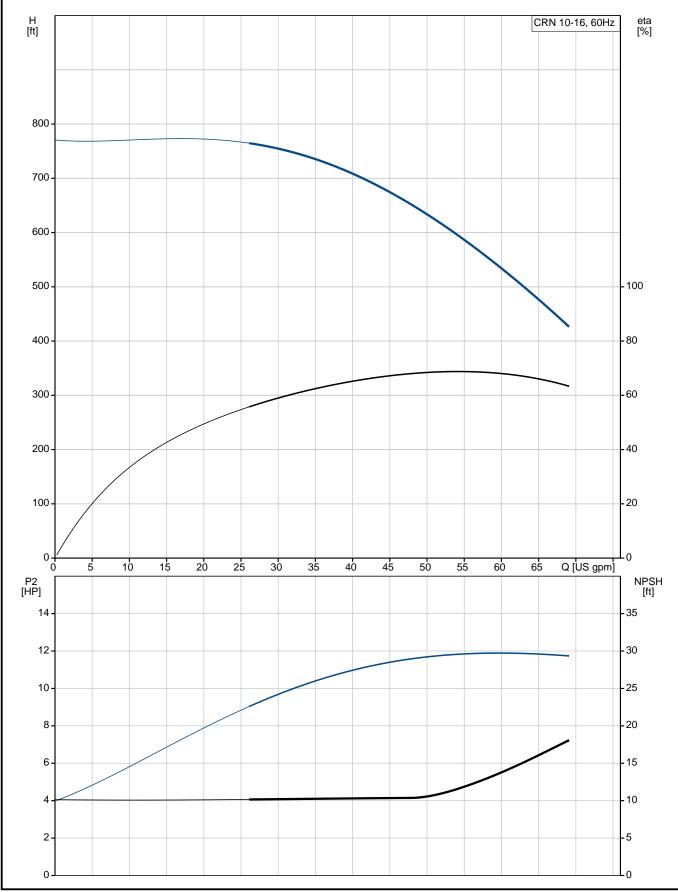
Country of origin: US

Custom tariff no.: 8413.70.2040



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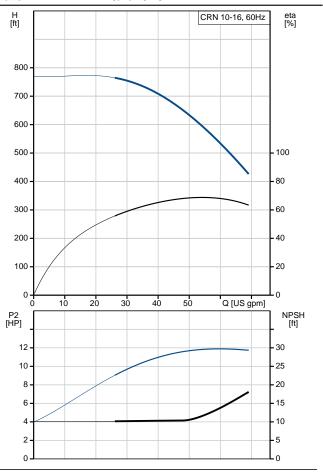
96523293 CRN 10-16 A-FGJ-A-V-HQQV 60 Hz

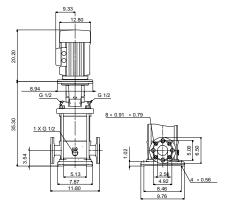


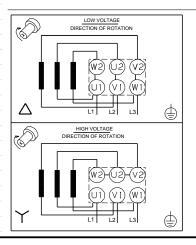


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363 psi / -4 °F Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 50 Size of outlet connection: Pressure rating for connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -4 194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: Motor type: BALDOR IE Efficiency class: Rated power - P2: 15 HP	Max pressure at stated temperature:	363 psi / 194 °F
Size of inlet connection: Size of outlet connection: DN 50 Pressure rating for connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Belected liquid temperature: Belectrical data: Motor standard: Motor type: Rated power - P2: DN 50 DN 50 DN 50 DN 50 PW 25 FGJ Water -4 194 °F 62.29 lb/ft³ Belectrical data: NEMA NEMA BALDOR IE 3 / NEMA Premium		
Size of outlet connection: Pressure rating for connection: PN 25 Flange rating inlet: Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor type: Rated power - P2: DN 50 PN 25 Rough Solid NEM 50 PN 25 FGJ Water -4 194 °F 62.29 lb/ft³ FGD NEMA NEMA NEMA BALDOR IE 3 / NEMA Premium Rated power - P2: DN 50 PN 25 FGJ Water -4 194 °F BALDOR	Type of connection:	DIN / ANSI / JIS
Pressure rating for connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Liquid temperature range: -4 194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: Motor type: BALDOR IE Efficiency class: Rated power - P2: 15 HP	Size of inlet connection:	DN 50
Flange rating inlet: Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor type: Rated power - P2: 15 HP 254TC Water 254TC 68 °F FGJ Water -4 194 °F 68 °F 62.29 lb/ft³ Electrical data: NEMA NEMA BALDOR IE 3 / NEMA Premiur	Size of outlet connection:	DN 50
Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor type: BALDOR IE Efficiency class: Rated power - P2: 15 HP	Pressure rating for connection:	PN 25
Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -4 194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: BALDOR IE Efficiency class: IE3 / NEMA Premiur Rated power - P2: 15 HP	Flange rating inlet:	300 lb
Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -4 194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: BALDOR IE Efficiency class: IE3 / NEMA Premiur Rated power - P2: 15 HP	Flange size for motor:	254TC
Pumped liquid: Water Liquid temperature range: -4 194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: BALDOR IE Efficiency class: IE3 / NEMA Premiur Rated power - P2: 15 HP	Connect code:	FGJ
Pumped liquid: Water Liquid temperature range: -4 194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: BALDOR IE Efficiency class: IE3 / NEMA Premiur Rated power - P2: 15 HP	Liquid:	
Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: Motor type: BALDOR IE Efficiency class: Rated power - P2: 15 HP	Pumped liquid:	Water
Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: BALDOR IE Efficiency class: IE3 / NEMA Premiur Rated power - P2: 15 HP	Liquid temperature range:	-4 194 °F
Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: BALDOR IE Efficiency class: IE3 / NEMA Premiur Rated power - P2: 15 HP	Selected liquid temperature:	
Electrical data: Motor standard: NEMA Motor type: BALDOR IE Efficiency class: IE3 / NEMA Premiur Rated power - P2: 15 HP	Density:	62.29 lb/ft ³
Motor standard: Motor type: BALDOR IE Efficiency class: Rated power - P2: SEMA BALDOR 15 HP	Electrical data:	
Motor type: BALDOR IE Efficiency class: IE3 / NEMA Premiur Rated power - P2: 15 HP	Motor standard:	NEMA
IE Efficiency class: IE3 / NEMA Premiur Rated power - P2: 15 HP		
Rated power - P2: 15 HP	• • • • • • • • • • • • • • • • • • • •	IE3 / NEMA Premium
Power (PZ) required by purific.	Power (P2) required by pump:	15 HP
	Main frequency:	









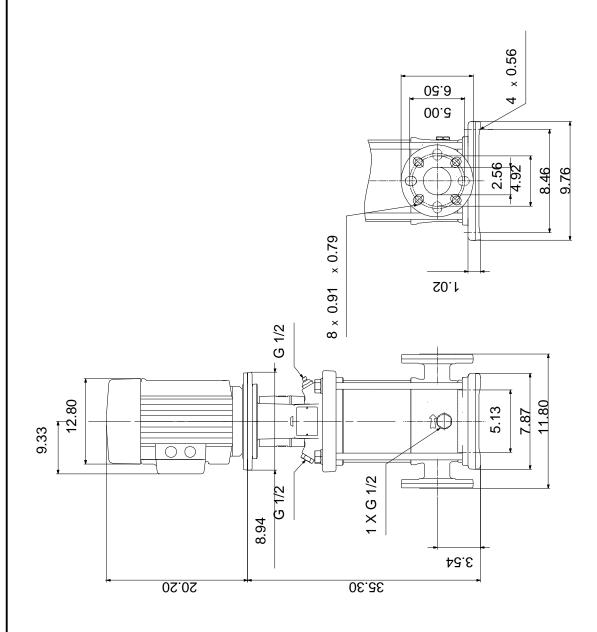
Date: 5/4/2020

Description	Value
Rated voltage:	3 x 208-230/460 V
Service factor:	1.15
Rated current:	38,0-35,0/17,5 A
Load current:	44-40/20 A
Rated speed:	3520 rpm
IE efficiency:	IE3 91%
Motor efficiency at full load:	91-91 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP54
Insulation class (IEC 85):	F
Motor protection:	NONE
Motor Number:	85600H24
Controls:	
Frequency converter:	NONE
Others:	
DOE Pump Energy Index CL:	0.87
Net weight:	333 lb
Gross weight:	448 lb
Shipping volume:	17.2 ft ³
Country of origin:	US
Custom tariff no.:	8413.70.2040



Date: 5/4/2020

96523293 CRN 10-16 A-FGJ-A-V-HQQV 60 Hz



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



Date:

5/4/2020

96523293 CRN 10-16 A-FGJ-A-V-HQQV 60 Hz

