

Date: 5/7/2019

Count | Description

1 CRN 1-21A-FGJ-A-V-HQQV



Product No.: 96082996

Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.

The pump has the following characteristics:

- Impellers, intermediate chambers and outer sleeve are made of
 - Pump head cover and base are made of
- The shaft seal has assembly length according to EN 12756.
- Power transmission is via cast iron split coupling.

flanges/couplings.

The motor is a 3-phase AC motor.

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water
Liquid temperature range: -4 .. 194 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical:

Rated pump speed: 3461 rpm
Rated flow: 9.69 US gpm
Rated head: 464.9 ft
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 Stainless steel

Impeller: Stainless stee EN 1.4401

AISI 316

Bearing: SIC

Installation:

Maximum ambient temperature: 140 °F Maximum operating pressure: 362.59 psi



Date: 5/7/2019

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

363 psi / -4 °F

Type of connection: DIN / ANSI / JIS

Size of inlet connection: DN 25/32
Size of suction port: 1 1/4 inch
Size of outlet connection: DN 25/32
Size of outlet port: 1 1/4 inch
Pressure rating for pipe connection: PN 25
Flange rating inlet: 300 lb
Flange size for motor: 182TC

Electrical data:

Motor standard: NEMA Motor type: 90FA

IE Efficiency class: NEMA Premium / IE3 60Hz

Rated power - P2: 3 HP
Power (P2) required by pump: 3 HP
Main frequency: 60 Hz

Rated voltage: 3 x 208-230YY/460Y V

Service factor: 1.15

Rated current: 8,35-7,80/3,9 A Starting current: 940-1040 % Cos phi - power factor: 0.89-0.86 Rated speed: 3510-3530 rpm IE efficiency: IE3 86,5% Motor efficiency at full load: 86.5 % Motor efficiency at 3/4 load: 86.5 % Motor efficiency at 1/2 load: 84.0 % Number of poles:

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

Motor Number: 85903977

Others:

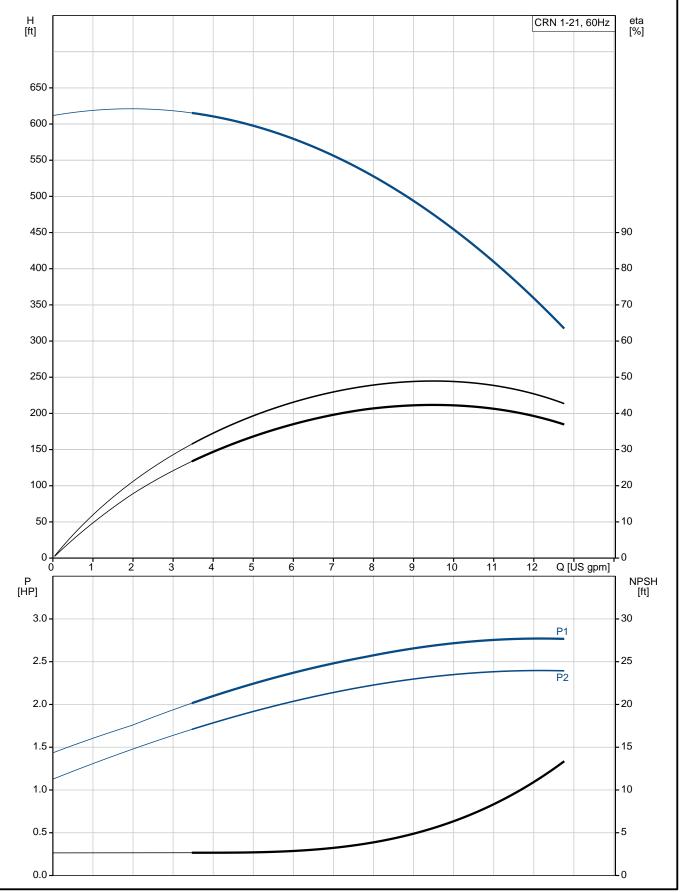
Net weight: 103 lb
Gross weight: 120 lb
Shipping volume: 10.1 ft³
Country of origin: US

Custom tariff no.: 8413.70.2040



Date: 5/7/2019

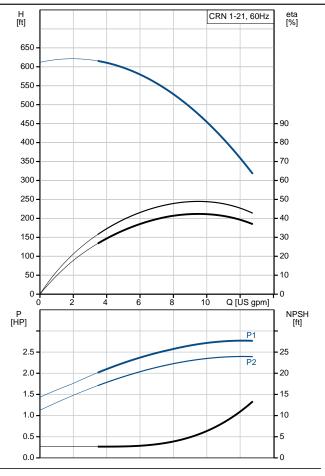
96082996 CRN 1-21A-FGJ-A-V-HQQV 60 Hz

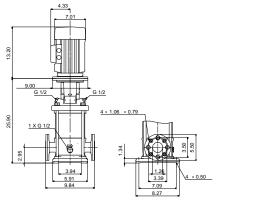


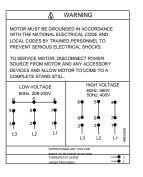


Date: 5/7/2019

| Product name: CRN | Description | Value |
|--|-------------------------------------|--------------------------|
| Product No.: 96082996 EAN: 5700395177343 Technical: Rated pump speed: 3461 rpm Rated flow: 9.69 US gpm Rated head: 464.9 ft Head max: 617.5 ft Stages: 21 Impellers: 21 Number of reduced-diameter impellers: 0 N Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Cooling: TEFC Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: V Bearing: SIC Installation: Maximum ambient temperature: 140 °F Maximum operating pressure: 362.59 psi Max pressure at stated temperature: 363 psi / 194 °F Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: DN 25/32 Size of outlet connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: 182TC Connect code: FGJ 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: 90FA NEMA Premium / IE3 60Hz | General information: | ODN |
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| Code for rubber: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temperature: Max pressure at stat | Material and a | |
| SIC | | |
| Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temperature: 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 25/32 Size of suction port: 1 1/4 inch Size of outlet connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: 182TC Connect code: FGJ Liquid: Pumped liquid: Vater Liquid temperature range: -4 194 °F Selected liquid temperature: 68 °F Density: Electrical data: Motor standard: Motor type: 90FA IE Efficiency class: Rated power - P2: 3 HP | | • |
| Maximum ambient temperature: 140 °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 25/32 Size of suction port: 1 1/4 inch Size of outlet connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: 182TC 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: 90FA IE Efficiency class: Rated power - P2: 3 HP | | SIC |
| Maximum operating pressure: Max pressure at stated temperature: 363 psi / 194 °F 363 psi / -4 °F Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 Size of suction port: 1 1/4 inch Size of outlet connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: 182TC 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: 90FA NEMA Premium / IE3 60Hz Rated power - P2: 3 HP | | 440.05 |
| Max pressure at stated temperature: 363 psi / 194 °F 363 psi / -4 °F Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 Size of suction port: 1 1/4 inch Size of outlet connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: 182TC 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: 90FA IE Efficiency class: Rated power - P2: 3 HP | | |
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| Type of connection: Size of inlet connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 Size of suction port: 1 1/4 inch Size of outlet connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: 182TC 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: 90FA IE Efficiency class: Rated power - P2: 3 HP | Max pressure at stated temperature: | |
| Size of inlet connection: Size of suction port: 1 1/4 inch Size of outlet connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Vater Liquid temperature range: Selected liquid temperature: 68 °F Density: Electrical data: Motor standard: NEMA Motor type: Patient connection: NEMA Premium / IE3 60Hz Rated power - P2: 3 HP | <u> </u> | <u>'</u> |
| Size of suction port: Size of outlet connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Vater Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor type: Pate A Selected liquid / IE3 60Hz Rated power - P2: 3 HP | | |
| Size of outlet connection: Size of outlet port: 1 1/4 inch Pressure rating for pipe 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: Electrical data: Motor standard: Motor type: Pumped liquid: NEMA NEMA NEMA NEMA NEMA NEMA Premium / IE3 60Hz Rated power - P2: 3 HP | | |
| Size of outlet port: Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: 182TC Connect code: FGJ Liquid: Pumped liquid: Vater Liquid temperature range: -4 194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: Motor type: PMA NEMA NEMA Premium / IE3 60Hz Rated power - P2: 3 HP | • | |
| Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: 182TC 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: 90FA IE Efficiency class: Rated power - P2: 3 HP | | |
| 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: Pumped liquid: NEMA NEMA NEMA NEMA NEMA NEMA Premium / IE3 60Hz Rated power - P2: 3 HP | | |
| Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor type: Pumped liquid temperature: NEMA NEMA NEMA NEMA NEMA NEMA NEMA Premium / IE3 60Hz Rated power - P2: 3 HP | | |
| 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: 90FA IE Efficiency class: Rated power - P2: 3 HP | | |
| Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: 62.29 lb/ft³ Electrical data: Motor standard: Motor type: 90FA IE Efficiency class: Rated power - P2: 3 HP | | |
| 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: 90FA IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 3 HP | | FGJ |
| Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: Motor type: 90FA IE Efficiency class: Rated power - P2: 3 HP | | |
| Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: 90FA IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 3 HP | | Water |
| Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: 90FA IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 3 HP | | |
| Electrical data: Motor standard: Motor type: 90FA IE Efficiency class: Rated power - P2: 3 HP | Selected liquid temperature: | 68 °F |
| Motor standard: Motor type: 90FA IE Efficiency class: Rated power - P2: 3 HP | | 62.29 lb/ft ³ |
| Motor type: 90FA IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 3 HP | Electrical data: | |
| IE Efficiency class: Rated power - P2: 3 HP | Motor standard: | NEMA |
| Rated power - P2: 3 HP | Motor type: | 90FA |
| | IE Efficiency class: | NEMA Premium / IE3 60Hz |
| | Rated power - P2: | 3 HP |
| Power (PZ) required by pump: 3 HP | Power (P2) required by pump: | 3 HP |









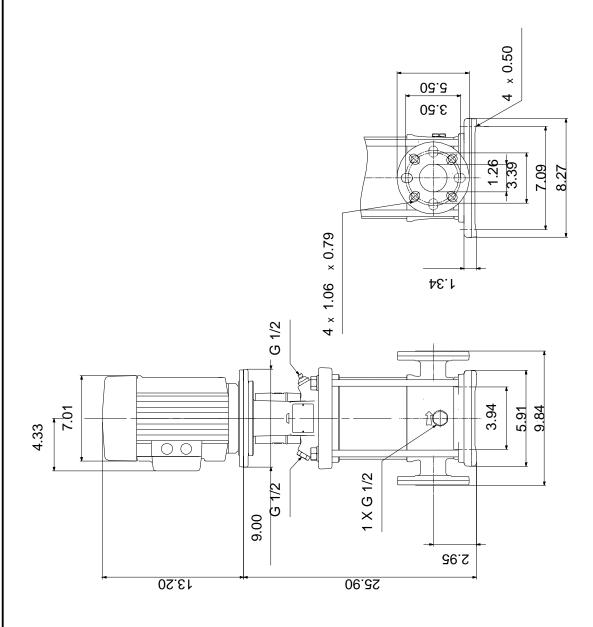
Date: 5/7/2019

| Description | Value |
|--------------------------------|----------------------|
| Main frequency: | 60 Hz |
| Rated voltage: | 3 x 208-230YY/460Y V |
| Service factor: | 1.15 |
| Rated current: | 8,35-7,80/3,9 A |
| Starting current: | 940-1040 % |
| Load current: | 9,5-8,95/4,5 A |
| Cos phi - power factor: | 0.89-0.86 |
| Rated speed: | 3510-3530 rpm |
| IE efficiency: | IE3 86,5% |
| Motor efficiency at full load: | 86.5 % |
| Motor efficiency at 3/4 load: | 86.5 % |
| Motor efficiency at 1/2 load: | 84.0 % |
| Number of poles: | 2 |
| Enclosure class (IEC 34-5): | 55 Dust/Jetting |
| Insulation class (IEC 85): | F |
| Motor protection: | NONE |
| Motor Number: | 85903977 |
| Controls: | |
| Frequency converter: | NONE |
| Others: | |
| Net weight: | 103 lb |
| Gross weight: | 120 lb |
| Shipping volume: | 10.1 ft ³ |
| Country of origin: | US |
| Custom tariff no.: | 8413.70.2040 |



Date: 5/7/2019

96082996 CRN 1-21A-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:

5/7/2019

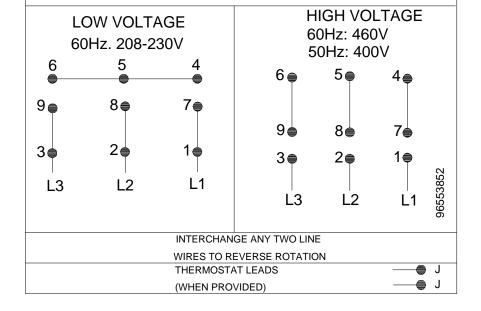
96082996 CRN 1-21A-FGJ-A-V-HQQV 60 Hz



WARNING

MOTOR MUST BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES BY TRAINED PERSONNEL TO PREVENT SERIOUS ELECTRICAL SHOCKS.

TO SERVICE MOTOR, DISCONNECT POWER SOURCE FROM MOTOR AND ANY ACCESSORY DEVICES AND ALLOW MOTOR TO COME TO A COMPLETE STAND STILL.



All units are [in] unless otherwise presented.