

Submittal Data

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

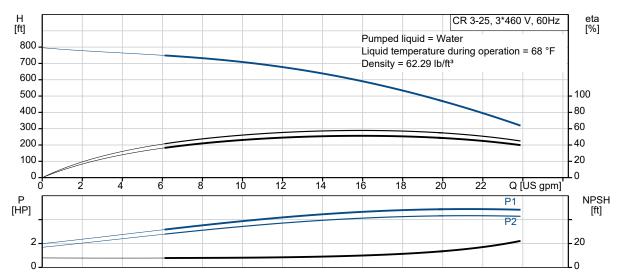


Product photo could vary from the actual product

CR 3-25 A-FGJ-A-E-HQQE

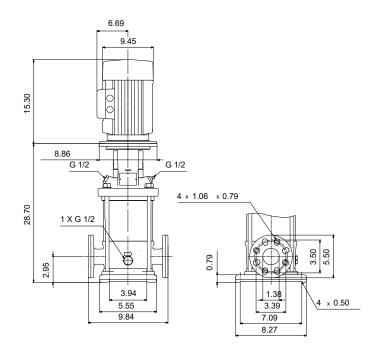
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron. All other wetted parts are in stainless steel (EN 1.4301)(AISI 304)

| Conditions | s of Service | Pump Data | Pump Data | | Data |
|-------------------|--------------|-------------------------------------|------------------|-------------------|---------------|
| Efficiency: | | Max pressure at stated temperature: | 363 psi / 250 °F | Rated power - P2: | 5 HP |
| Liquid: | Water | Liquid temperature range: | -4 248 °F | Rated voltage: | 208-230/460 V |
| Temperature: | 68 °F | Maximum ambient temperature: | 104 °F | Main frequency: | 60 Hz |
| NPSH required: | ft | Approvals: | CURUS,NSF61 | Enclosure class: | IP55 |
| Specific Gravity: | 1.000 | Shaft seal: | HQQE | Insulation class: | F |
| | | Product number: | 99916356 | Motor protection: | NONE |
| | | | | Motor type: | WEG |
| | | | | Eff. 1/1: | 88.5 % |



Submittal Data





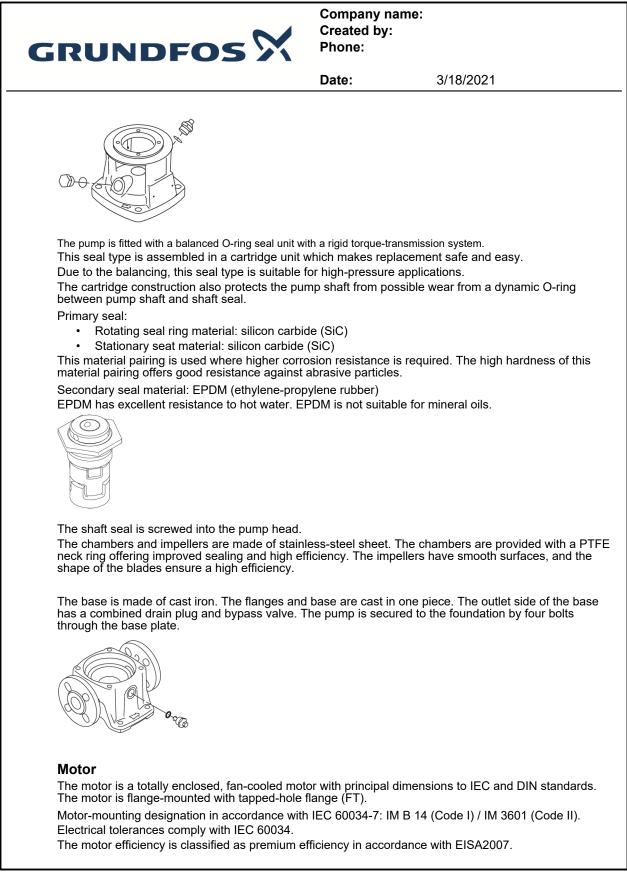
Materials:

Base:CastBase:EN 19Base:ASTMImpeller:StainImpeller:AISI 3Impeller:EN 1Material code:ACode for rubber:E

Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel AISI 304 EN 1.4301 A



Date: 3/18/2021 1 CR 3-25 A-FGJ-A-E-HQQE Product No.: 99916356 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.



| GRUNDFOS |
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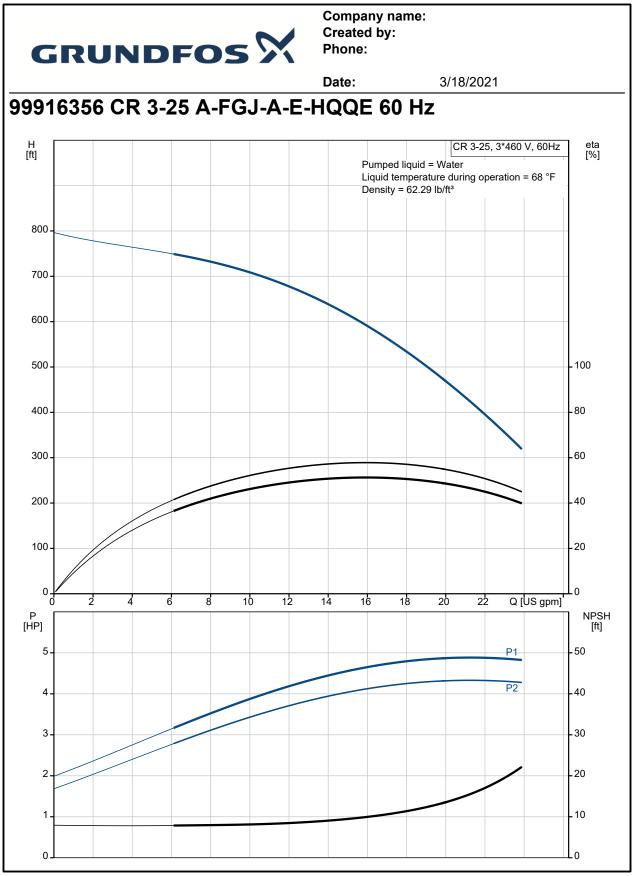
Date:

3/18/2021

| Count | Description | | | | |
|-------|---|---|--|--|--|
| | The motor does not incorporate breaker which can be manually r rated current of the motor (11/1). | motor protection and must be connected to a motor-protective circuit eset. The motor-protective circuit breaker must be set according to the | | | |
| | The motor can be connected to a point. Grundfos CUE offers a rar Product Center. | a variable speed drive for adjustment of pump performance to any duty age of variable speed drives. Please find more information in Grundfos | | | |
| | Technical data | | | | |
| | Liquid: | | | | |
| | Pumped liquid: | Water | | | |
| | Liquid temperature range: | -4 248 °F | | | |
| | Selected liquid temperature: | 68 °F | | | |
| | Density: | 62.29 lb/ft ³ | | | |
| | Technical: | | | | |
| | Rated pump speed: | 3461 rpm | | | |
| | Rated flow: | 15.4 US gpm | | | |
| | Rated head: | 588.3 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 | | | |
| | Impeller: | ASTM A48-25B Stainless steel | | | |
| | | EN 1.4301 | | | |
| | | AISI 304 | | | |
| | Bearing: | SIC | | | |
| | Dearing. | 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: | 182TC | | | |
| | Electrical data: | | | | |
| | Motor standard: | NEMA | | | |
| | Motor type: | WEG | | | |
| | I | | | | |

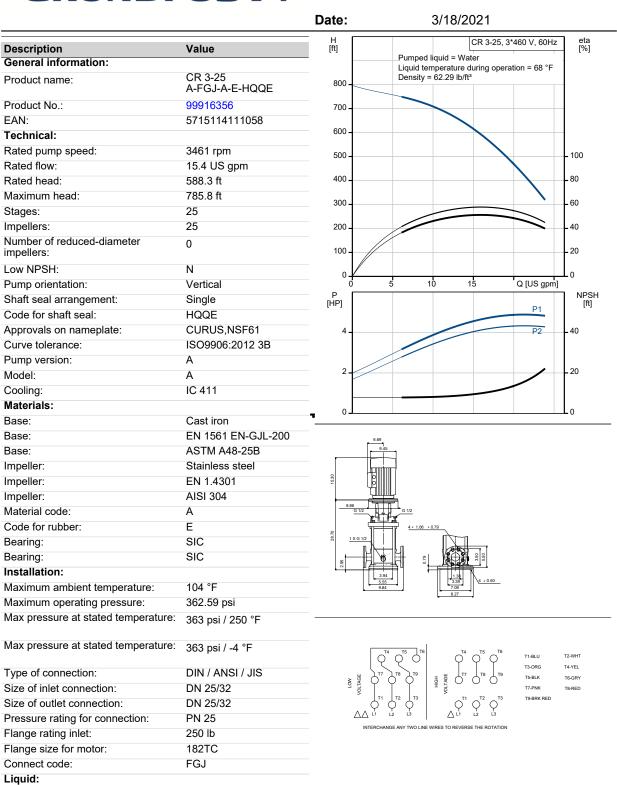


| | | Date: | 3/18/2021 | |
|-------|---|---|-----------|--|
| Count | Description | | | |
| | IE Efficiency class: Rated power - P2: Power (P2) required by pump: Main frequency: Rated voltage: Service factor: Rated current: Starting current: Cos phi - power factor: Rated speed: IE efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor Number: | IE3 / NEMA Premium 5 HP 5 HP 60 Hz 3 x 208-230/460 V 1.15 13,1-11,8/5,9 A 780-780 % 0.89 3500 rpm IE3 88,5% 88.5 % 87.5 % 2 IP55 F 99882380 | | |
| | Controls: Frequency converter: Others: Net weight: Gross weight: Shipping volume: Country of origin: | NONE 151 lb 169 lb 10.1 ft ³ US | | |
| | Custom tariff no.: | 8413.70.2040 | | |



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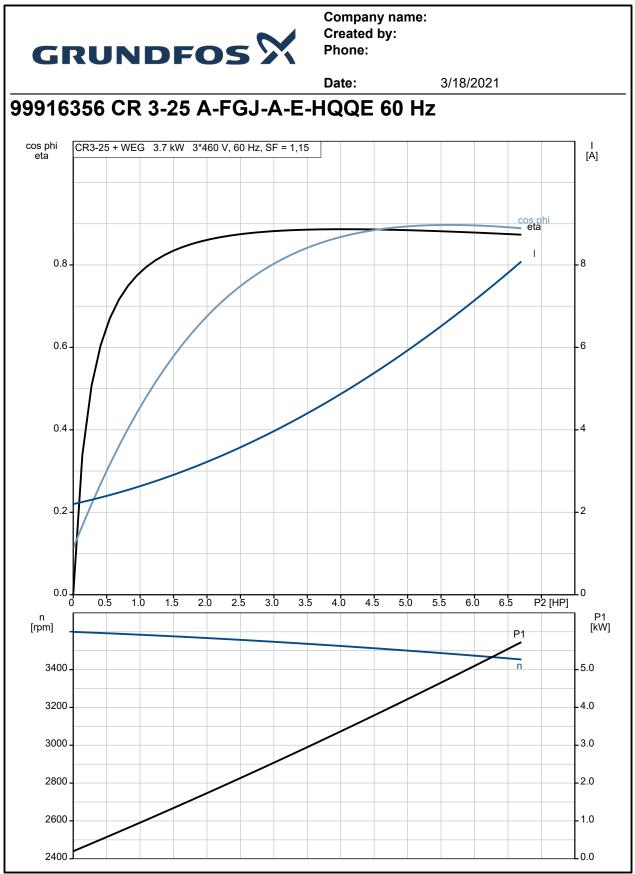




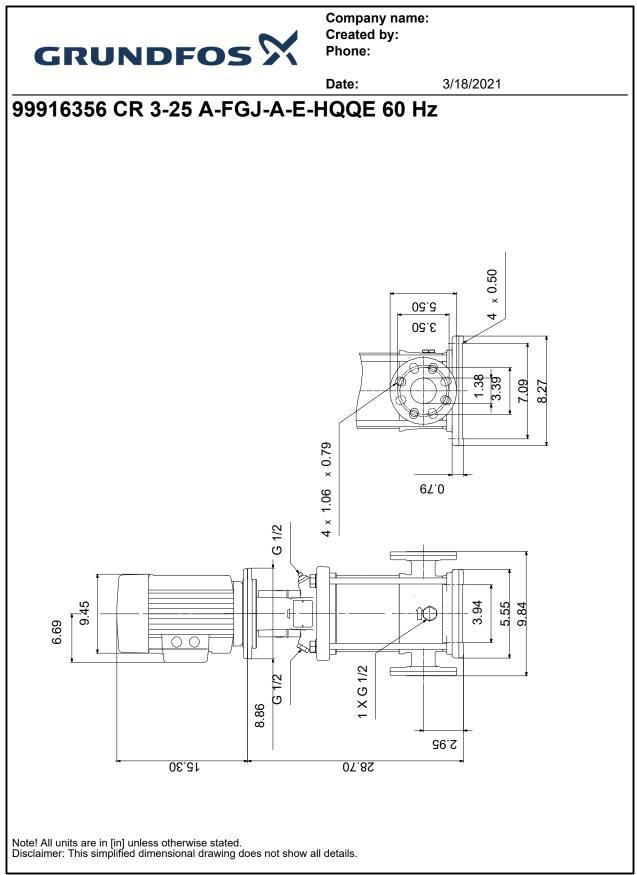
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|--------------------------------|--------------------------|--|
| Description | Value | |
| Pumped liquid: | Water | |
| Liquid temperature range: | -4 248 °F | |
| Selected liquid temperature: | 68 °F | |
| Density: | 62.29 lb/ft ³ | |
| Electrical data: | | |
| Motor standard: | NEMA | |
| Motor type: | WEG | |
| IE Efficiency class: | IE3 / NEMA Premium | |
| Rated power - P2: | 5 HP | |
| Power (P2) required by pump: | 5 HP | |
| Main frequency: | 60 Hz | |
| Rated voltage: | 3 x 208-230/460 V | |
| Service factor: | 1.15 | |
| Rated current: | 13,1-11,8/5,9 A | |
| Starting current: | 780-780 % | |
| Load current: | 13.6/6.79 A | |
| Cos phi - power factor: | 0.89 | |
| Rated speed: | 3500 rpm | |
| IE efficiency: | IE3 88,5% | |
| Motor efficiency at full load: | 88.5 % | |
| Motor efficiency at 3/4 load: | 88.5 % | |
| Motor efficiency at 1/2 load: | 87.5 % | |
| Number of poles: | 2 | |
| Enclosure class (IEC 34-5): | IP55 | |
| Insulation class (IEC 85): | F | |
| Motor protection: | NONE | |
| Motor Number: | 99882380 | |
| Controls: | | |
| Frequency converter: | NONE | |
| Others: | | |
| Net weight: | 151 lb | |
| Gross weight: | 169 lb | |
| Shipping volume: | 10.1 ft ³ | |
| Country of origin: | US | |
| Custom tariff no.: | 8413.70.2040 | |



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