

22/12/2022

Qty. | Description

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NB 250-450/397 AASF1AESBQQETW5



Note! Product picture may differ from actual product

Product No.: 98976247

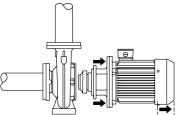
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

Flanges are PN 10 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

The unbalanced rubber bellows seal is according to DIN EN 12756.

The pump is close-coupled to a fan-cooled asynchronous motor.

The back pull-out design means that the pump can be serviced by a single person without disturbing the pump housing or pipes.



Cast-iron parts 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.

Pump

Motor stool and pump cover are made of cast iron (EN-GJL-250). Coupling guards are fitted to the motor stool. The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft.

Seal faces:

- 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 pump housing has feet.

The pump is to be secured to the foundation with bolts through the pump housing feet and motor feet. The pump is delivered with steel support blocks. The support blocks provide horizontal alignment of the pump and ensure clearance between the motor stool/motor flange and the foundation.

Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.



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|----|---|---------------------|---------|------|------------|--|--|
| у. | Description | | | | | | |
| 1 | Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations. | | | | | | |
| | A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing. | | | | | | |
| | Further product details | | | | | | |
| | Cast-iron parts 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 a thin, well-controlled layer on the surface. | | | | | | |
| | Technical data | | | | | | |
| | Controls: | | | | | | |
| | Frequency converter: | NONE | | | | | |
| | Pressure sensor: | Ν | | | | | |
| | Liquid: | | | | | | |
| | Pumped liquid: | Water | | | | | |
| | Liquid temperature range: | -25 120 °C | | | | | |
| | Selected liquid temperature: | 20 °C | | | | | |
| | Density: | 998.2 kg/m³ | | | | | |
| | Technical: | | | | | | |
| | Pump speed on which pump da | ata are based: | 988 rpm | | | | |
| | Rated flow: | 554.8 m³/h | | | | | |
| | Rated head: | 22.51 m | | | | | |
| | Actual impeller diameter: | 397 mm 450 | | | | | |
| | Nominal impeller diameter: Shaft seal arrangement: | Single | | | | | |
| | Code for shaft seal: | BQQE | | | | | |
| | Curve tolerance: | ISO9906:2012 | 2 3B | | | | |
| | Bearing design: | Standard | | | | | |
| | Materials: | | | | | | |
| | Pump housing: | Cast iron | | | | | |
| | | EN-GJL-250 | | | | | |
| | | ASTM class 3 | 5 | | | | |
| | Wear ring: | Brass | | | | | |
| | Impeller: | Cast iron | | | | | |
| ĺ | | EN-GJL-200 | | | | | |
| | Internal pump house coating: | ASTM class 3 CED | U . | | | | |
| | Shaft: | Stainless stee | el | | | | |
| | | EN 1.4301 | ~ | | | | |
| | | AISI 304 | | | | | |
| | Installation: | | | | | | |
| | Max. ambient temperature: | 55 °C | | | | | |
| | Maximum operating pressure: | 10 bar | | | | | |
| | Pipe connection standard: | EN 1092-2 | | | | | |
| | Size of inlet connection: | DN 300 | | | | | |
| | Size of outlet connection: | DN 250 | | | | | |
| | Pressure rating for connection: | PN 10 | | | | | |
| | Bearing lubrication: | Grease | | | | | |
| | Pump housing with feet: | Yes | | | | | |
| | Support block (Yes/No): | Y | | | | | |



Qty. | Description

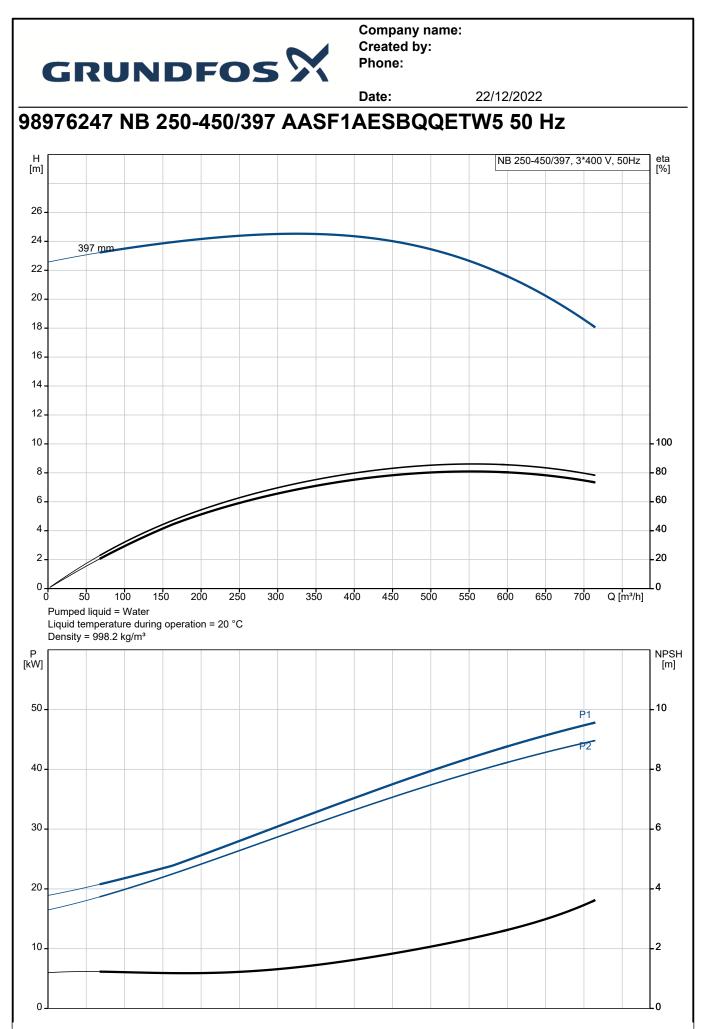
Electrical data: Motor type:

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Company name: Created by: Phone:

Date: 22/12/2022
SIEMENS
IE3

| meter type. | OILINEITO |
|----------------------------------|-------------------------|
| IE Efficiency class: | IE3 |
| Rated power - P2: | 45 kW |
| Mains frequency: | 50 Hz |
| Rated voltage: | 3 x 380-420D/660-725Y V |
| Rated current: | 82.0/47.5 A |
| Starting current: | 680-680 % |
| Cos phi - power factor: | 0.85 |
| Rated speed: | 988 rpm |
| Efficiency: | IE3 93,7% |
| Motor efficiency at full load: | 93.7-93.7 % |
| Motor efficiency at 3/4 load: | 94.3-94.3 % |
| Motor efficiency at 1/2 load: | 94.2-94.2 % |
| Number of poles: | 6 |
| Enclosure class (IEC 34-5): | IP55 |
| Insulation class (IEC 85): | F |
| Motor No: | 83W15436 |
| Bearing insulation type N-end: | STEEL BEARING |
| | |
| Others: | |
| Minimum efficiency index, MEI ≥: | |
| Net weight: | 1060 kg |
| Gross weight: | 1110 kg |
| Shipping volume: | 1.75 m³ |
| Danish VVS No.: | 386069460 |
| Country of origin: | HU |
| Custom tariff no.: | 84137051 |





| Description | Value | H [m] | NB 250-450/397, 3*400 V, 50Hz |
|---------------------------------|-----------------------------------|-------------------------------------|-------------------------------|
| General information: | value | | |
| Product name: | NB 250-450/397 AASF1AESBQQETW5 | 26 - 24 - 397 mm | |
| Draduat No. | 98976247 | 22 | |
| Product No: | | 20 - | |
| EAN number: Technical: | 5712604558492 | 18 | |
| Pump speed on which pump data | | 16 - | |
| are based: | 988 rpm | 14 | |
| Rated flow: | 554.8 m³/h | 12 - | |
| Rated head: | 22.51 m | 10 - | |
| Actual impeller diameter: | 397 mm | 8- | |
| Nominal impeller diameter: | 450 | 6- | |
| Shaft seal arrangement: | Single | 4- | |
| Shaft diameter: | 60 mm | 2 | |
| Code for shaft seal: | BQQE | 0 100 200 3 | 00 400 500 600 Q [m³/h] |
| Curve tolerance: | ISO9906:2012 3B | Pumped liquid = Water | |
| Pump version: | AS | Liquid temperature during of | peration = 20 °C |
| Bearing design: | Standard | Density = 998.2 kg/m ³ | |
| Materials: | | P [kW] | |
| Pump housing: | Cast iron | 50 - | р1 |
| Pump housing: | EN-GJL-250 | | |
| Pump housing: | ASTM class 35 | 40 | P2 |
| | Brass | | |
| Wear ring: | Brass Cast iron | 30 - | |
| Impeller: | EN-GJL-200 | | |
| Impeller: | | 20 | |
| Impeller: | ASTM class 30 | 10 - | |
| Internal pump house coating: | CED | | |
| Material code: | A | 0 | |
| Code for rubber: | E Steinlass steel | | |
| Shaft: | Stainless steel | r! | (|
| Shaft: | EN 1.4301 | | (° |
| Shaft: | AISI 304 | 538 820 | |
| Installation: | 55.00 | 173 | |
| Max. ambient temperature: | 55 °C | | |
| Maximum operating pressure: | 10 bar | s †4 #6 | |
| Pipe connection standard: | EN 1092-2 | | |
| Size of inlet connection: | DN 300 | 200 | |
| Size of outlet connection: | DN 250 | | 374 15 563 |
| Pressure rating for connection: | PN 10 | 8 | |
| Bearing lubrication: | Grease | | |
| Pump housing with feet: | Yes | 12 X • 23 | |
| Support block (Yes/No): | Y | | |
| Connect code: | F1 | | |
| Liquid: | | | |
| Pumped liquid: | Water | | |
| Liquid temperature range: | -25 120 °C | | Y |
| Selected liquid temperature: | 20 °C | | |
| Density: | 998.2 kg/m³ | | |
| Electrical data: | | | |
| Motor type: | SIEMENS | | |
| IE Efficiency class: | IE3 | | 18.Are |
| Rated power - P2: | 45 kW | NELAY L1 L2 L3 | |
| Mains frequency: | 50 Hz | | |
| Rated voltage: | 3 x 380-420D/660-725Y V | | |
| Rated current: | 82.0/47.5 A | Х +т Х +т Х +т | ADECTE BR RE. M. |
| Starting current: | 680-680 % | ── Ĭ ¶ĽĮĮĨ,¶ | A NUMA PLANE |
| Cos phi - power factor: | 0.85 | - 뷰 백연양! | H THER |
| Rated speed: | 988 rpm | | EC TP2 CONNECT THERM |
| INGINAL BUEEN | | | |

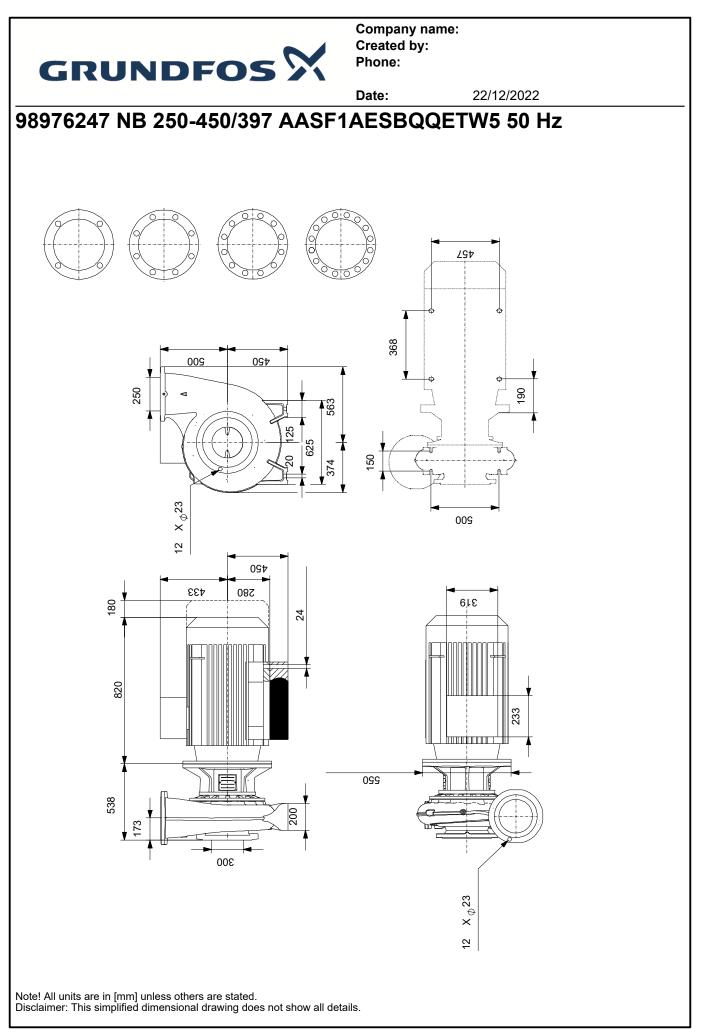
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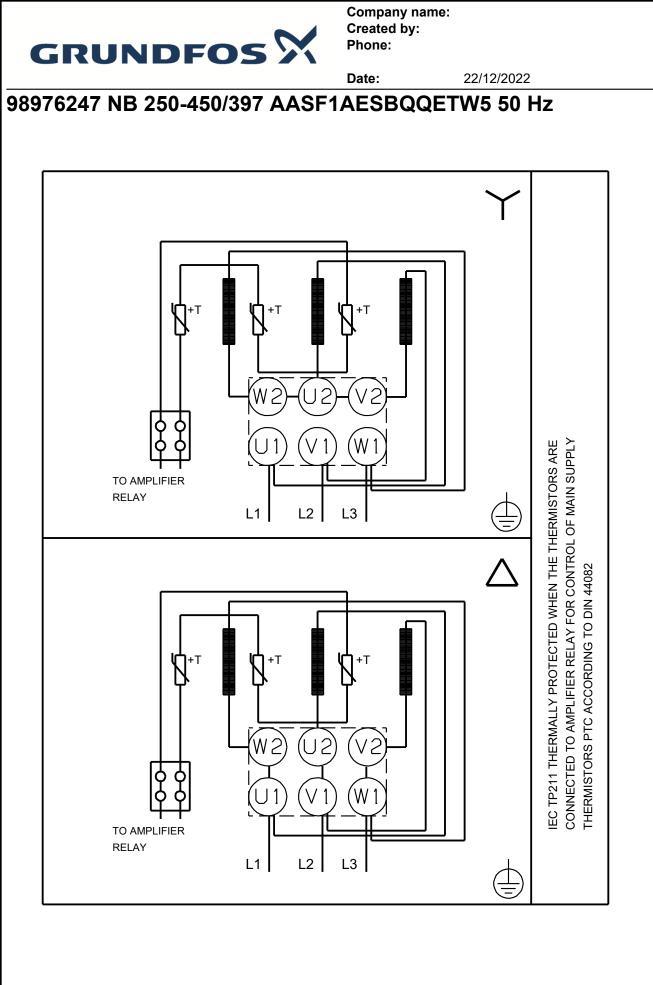


Date:

22/12/2022

| Description | Value |
|----------------------------------|---------------|
| Motor efficiency at full load: | 93.7-93.7 % |
| Motor efficiency at 3/4 load: | 94.3-94.3 % |
| Motor efficiency at 1/2 load: | 94.2-94.2 % |
| Number of poles: | 6 |
| Enclosure class (IEC 34-5): | IP55 |
| Insulation class (IEC 85): | F |
| Built-in motor protection: | PTC |
| Motor No: | 83W15436 |
| Mount. design. acc. IEC 34-7: | IM B35 |
| Bearing insulation type N-end: | STEEL BEARING |
| Controls: | |
| Frequency converter: | NONE |
| Pressure sensor: | Ν |
| Others: | |
| Minimum efficiency index, MEI ≥: | 0.69 |
| Net weight: | 1060 kg |
| Gross weight: | 1110 kg |
| Shipping volume: | 1.75 m³ |
| Danish VVS No.: | 386069460 |
| Country of origin: | HU |
| Custom tariff no.: | 84137051 |





Note! All units are in [mm] unless others are stated.



Your pos.

Position

Company name: Created by: Phone:

Date: 22/12/2022 **Order Data:** Total **Product name** Amount **Product No** 98976247 NB 250-450/397 1 Price on request

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