

**Qty. Description**

1 NB 150-315.2/294 AASF1AESBQQESW3



Note! Product picture may differ from actual product

Product No.: [99001641](#)

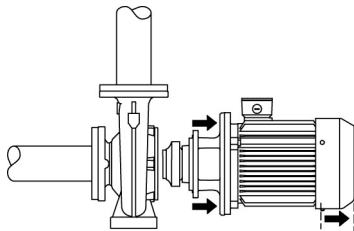
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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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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 as a thin, well-controlled layer on the surface.

**Technical data**
**Controls:**

Frequency converter: NONE

Pressure sensor: N

**Liquid:**

Pumped liquid: Water

Liquid temperature range: -25 .. 120 °C

Selected liquid temperature: 20 °C

Density: 998.2 kg/m<sup>3</sup>

**Technical:**

Pump speed on which pump data are based: 1478 rpm

Rated flow: 436.4 m<sup>3</sup>/h

Rated head: 24.21 m

Actual impeller diameter: 294 mm

Nominal impeller diameter: 315.2

Shaft seal arrangement: Single

Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B

Bearing design: Standard

**Materials:**

Pump housing: Cast iron  
EN-GJL-250  
ASTM class 35

Wear ring: Brass

Impeller: Cast iron  
EN-GJL-200  
ASTM class 30

Internal pump house coating: CED

Shaft: Stainless steel  
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 200

Size of outlet connection: DN 150

Pressure rating for connection: PN 10

Bearing lubrication: Grease

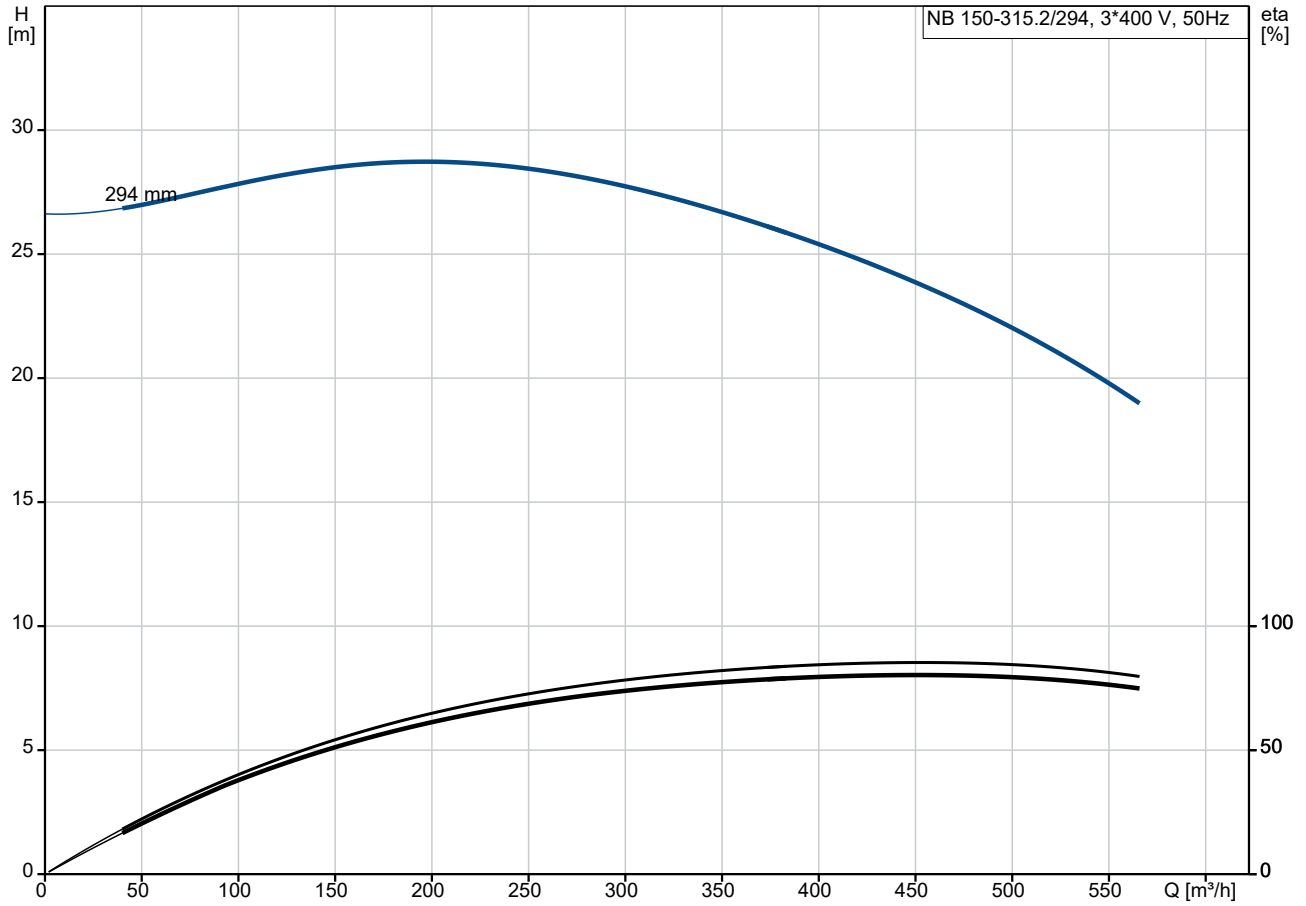
Pump housing with feet: Yes

Support block (Yes/No): Y

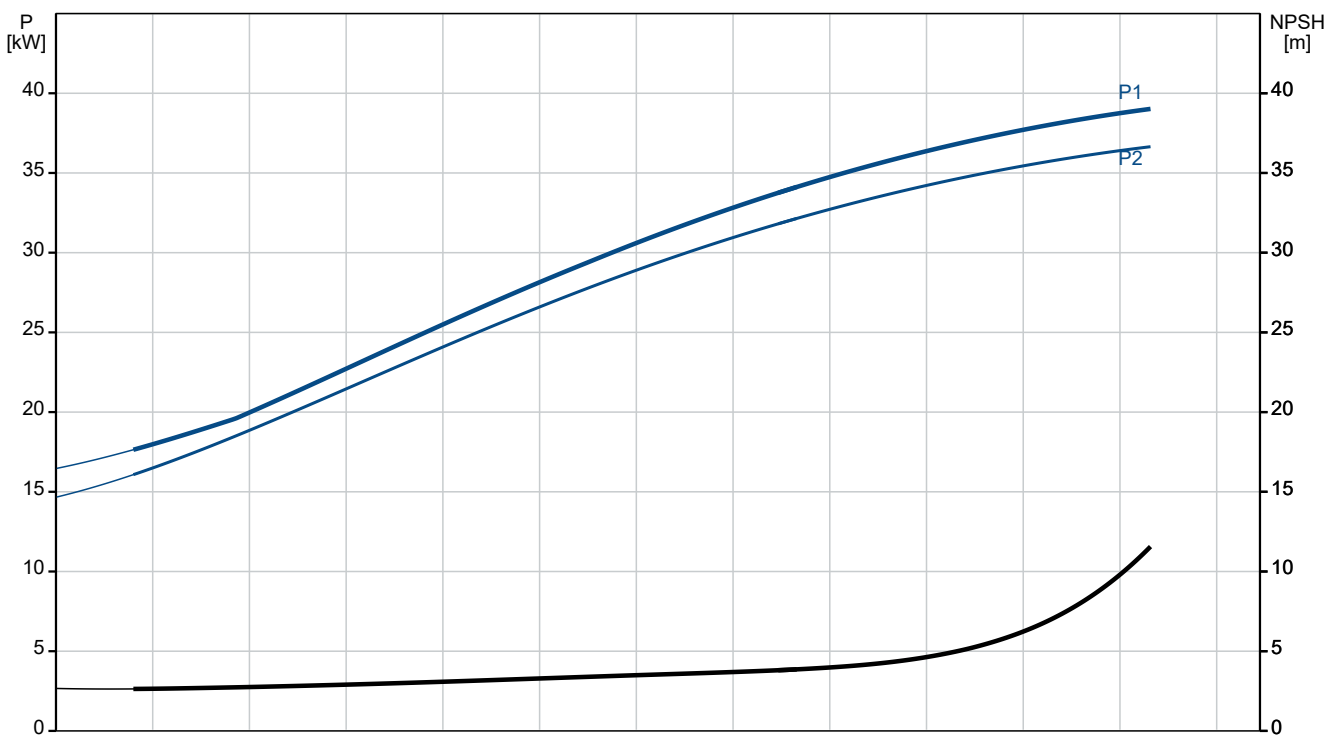
Qty.	Description
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1	Electrical data:
	Motor type: SIEMENS
	IE Efficiency class: IE3
	Rated power - P2: 37 kW
	Mains frequency: 50 Hz
	Rated voltage: 3 x 380-420D/660-725Y V
	Rated current: 66/38.5 A
	Starting current: 640-640 %
	Cos phi - power factor: 0.86
	Rated speed: 1478 rpm
	Efficiency: IE3 93,9%
	Motor efficiency at full load: 93.9-93.9 %
	Motor efficiency at 3/4 load: 94.5-94.5 %
	Motor efficiency at 1/2 load: 94.4-94.4 %
	Number of poles: 4
	Enclosure class (IEC 34-5): IP55
	Insulation class (IEC 85): F
	Motor No: 99032202
	Bearing insulation type N-end: STEEL BEARING
	Others:
	Minimum efficiency index, MEI $\geq$ : 0.68
	Net weight: 544 kg
	Gross weight: 577 kg
	Shipping volume: 0.951 m <sup>3</sup>
	Danish VVS No.: 386067336
	Country of origin: HU
	Custom tariff no.: 84137051

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Pumped liquid = Water  
 Liquid temperature during operation = 20 °C  
 Density = 998.2 kg/m³







Company name:

Created by:

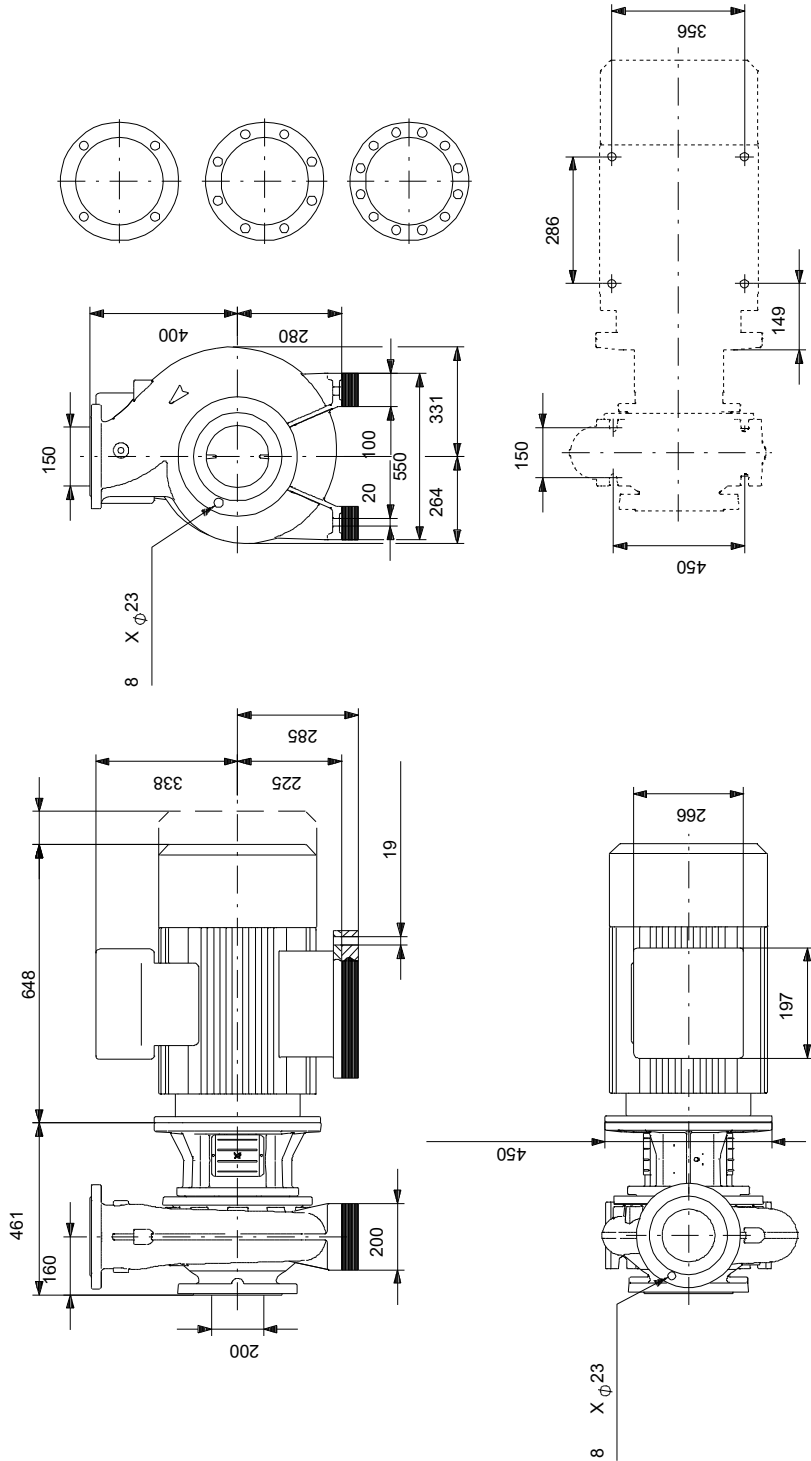
Phone:

Date:

22/12/2022

Description	Value
Motor efficiency at full load:	93.9-93.9 %
Motor efficiency at 3/4 load:	94.5-94.5 %
Motor efficiency at 1/2 load:	94.4-94.4 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	99032202
Mount. design. acc. IEC 34-7:	IM B35
Bearing insulation type N-end:	STEEL BEARING
<b>Controls:</b>	
Frequency converter:	NONE
Pressure sensor:	N
<b>Others:</b>	
Minimum efficiency index, MEI $\geq$ :	0.68
Net weight:	544 kg
Gross weight:	577 kg
Shipping volume:	0.951 m <sup>3</sup>
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## 99001641 NB 150-315.2/294 AASF1AESBQQESW3 50 Hz



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

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IEC TP211 THERMALLY PROTECTED WHEN THE THERMISTORS ARE  
CONNECTED TO AMPLIFIER RELAY FOR CONTROL OF MAIN SUPPLY  
THERMISTORS PTC ACCORDING TO DIN 44082

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



