

Date: 12/08/2021

Qty. | Description

1 NB 200-450/435 ASF1ABQQE



Product No.: 98976154

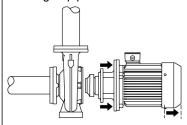
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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

The pump housing has both a priming and a drain hole closed by plugs. The impeller is a closed impeller with double-curved blades with smooth surfaces. The impeller is statically balanced according to ISO 1940-1 class G6.3 and hydraulically balanced to compensate for axial thrust.

Wear rings used in pump housing and for impeller are made of bronze/brass.

Motor stool and pump cover are made of cast iron (EN-GJL-250). Coupling guards are fitted to the motor stool. The pump cover is provided with a manual air vent screw for venting of the pump housing and the shaft seal chamber.

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.

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: 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



Date: 12/08/2021

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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.

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

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/m³

Technical:

Pump speed on which pump data are based: 1490 rpm

Rated flow: 601.8 m³/h
Rated head: 58.6 m
Actual impeller diameter: 435 mm
Nominal impeller diameter: 450
Shaft seal arrangement: Single

Curve tolerance: ISO9906:2012 3B

Bearing design: Standard

Materials:

Code for shaft seal:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35

BQQE

Wear ring: Brass
Impeller: Cast iron
EN-GJL-200

ASTM class 30

Shaft: Stainless steel

EN 1.4301 AISI 304

Internal pump house coating: CED

Installation:

Maximum ambient temperature: 55 °C

Maximum operating pressure: 10 bar

Pipe connection standard: EN 1092-2

Size of inlet connection: DN 250



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Qty. | Description

Size of outlet connection:

Pressure rating for connection:

Bearing lubrication:

Pump housing with feet:

Support block:

DN 200

PN 10

Grease

Yes

Y

Electrical data:

Motor type: SIEMENS
IE Efficiency class: IE3
Rated power - P2: 132 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-420D/660-725Y V Rated current: 240-220/140-128 A

Starting current: 730-730 %

Cos phi - power factor: 0.9

Rated speed: 1490 rpm

Efficiency: IE3 95,6%

Motor efficiency at full load: 95.6-95.6 %

Motor efficiency at 3/4 load: 95.9-95.9 %

Motor efficiency at 1/2 load: 95.9-95.9 %

Number of poles: 4
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

Motor No: 83V15446

Others:

Minimum efficiency index, MEI ≥: 0.44

Net weight: 1510 kg

Gross weight: 1580 kg

Shipping volume: 2.13 m³

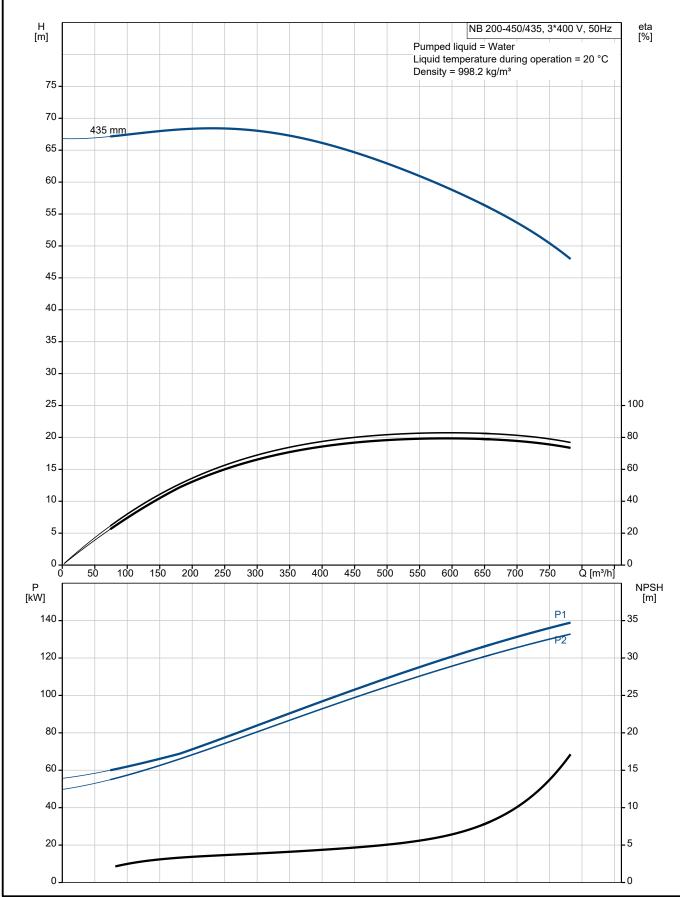
Country of origin: HU

Custom tariff no.: 84137051



Date: 12/08/2021

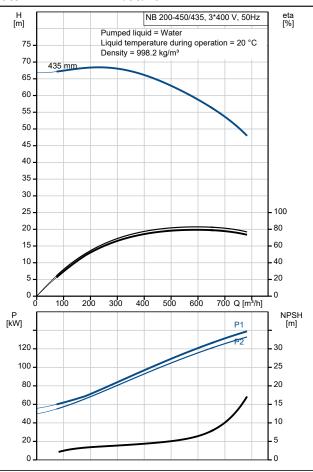
98976154 NB 200-450/435 ASF1ABQQE 50 Hz

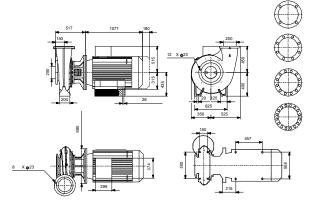


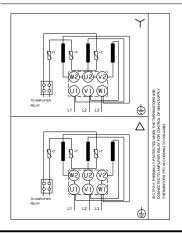


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Description	Value
General information:	* aluc
Product name:	NB 200-450/435
1 Toduct Hame.	ASF1ABQQE
Product No:	98976154
EAN number:	5712604556634
Technical:	
Pump speed on which pump data are	1490 rpm
based:	•
Rated flow:	601.8 m³/h
Rated head:	58.6 m
Actual impeller diameter:	435 mm
Nominal impeller diameter:	450
Shaft seal arrangement:	Single
Shaft diameter:	48 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	AS
Bearing design:	Standard
Materials:	_
Pump housing:	Cast iron
Pump housing:	EN-GJL-250
Pump housing:	ASTM class 35
Wear ring:	Brass
Impeller:	Cast iron
Impeller:	EN-GJL-200
Impeller:	ASTM class 30
Shaft:	Stainless steel
Shaft:	EN 1.4301
Shaft:	AISI 304
Internal pump house coating:	CED
Material code:	Α
Code for rubber:	E
Installation:	
Maximum ambient temperature:	55 °C
Maximum operating pressure:	10 bar
Pipe connection standard:	EN 1092-2
Size of inlet connection:	DN 250
Size of outlet connection:	DN 200
Pressure rating for connection:	PN 10
Bearing lubrication:	Grease
Pump housing with feet:	Yes
Support block:	Υ
Connect code:	F1
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	132 kW
Mains frequency:	50 Hz
. ,	3 x 380-420D/660-725Y V
Rated voltage:	
	240-220/140-128 A
Rated voltage:	
Rated voltage: Rated current:	240-220/140-128 A









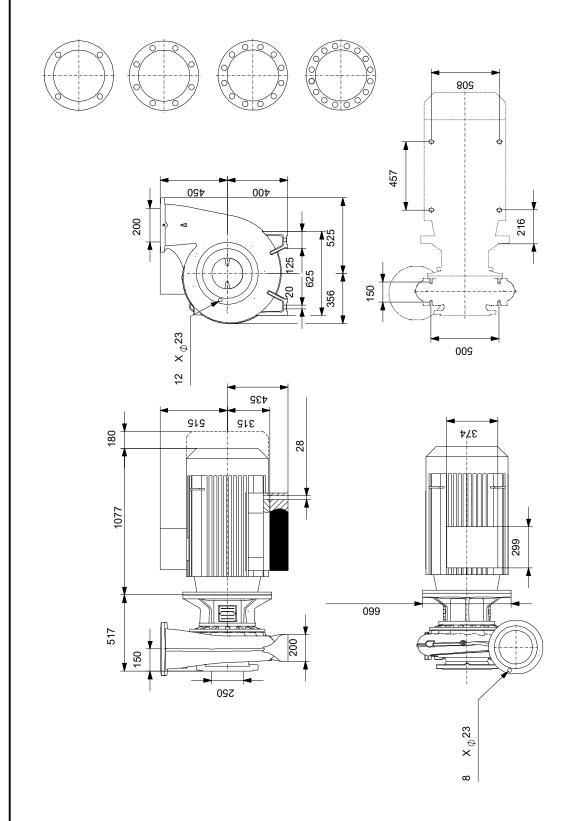
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Description	Value
Efficiency:	IE3 95,6%
Motor efficiency at full load:	95.6-95.6 %
Motor efficiency at 3/4 load:	95.9-95.9 %
Motor efficiency at 1/2 load:	95.9-95.9 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	83V15446
Mount. design. acc. IEC 34-7:	IM B35
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.44
Net weight:	1510 kg
Gross weight:	1580 kg
Shipping volume:	2.13 m³
Country of origin:	HU
Custom tariff no.:	84137051



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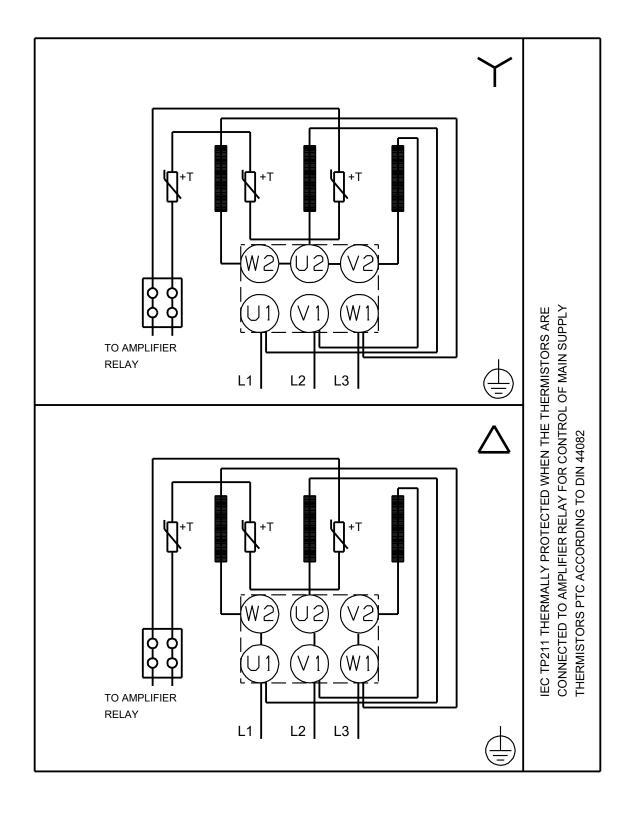


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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