Company name:
Created by:
Phone:

Date: 21/03/2019

Qty.	Description
1	**NB 100-200/203 ASF2ABQQE**

Note! Product picture may differ from actual product

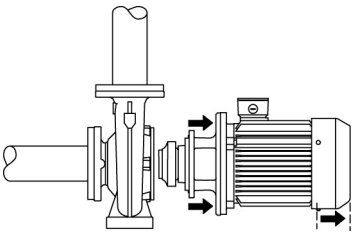
Product No.: 98975725

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 16 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 pipe work.



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 or cast iron.

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.

Qty.	Description

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.

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.

Further product details

Technical data

Controls:

Frequency converter:	NONE

Liquid:

Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³

Technical:

Rated flow:	324 m³/h
Rated head:	46.41 m
Actual impeller diameter:	203 mm
Nominal impeller diameter:	200 mm
Shaft seal arrangement:	Single
Code for shaft seal:	BQQE

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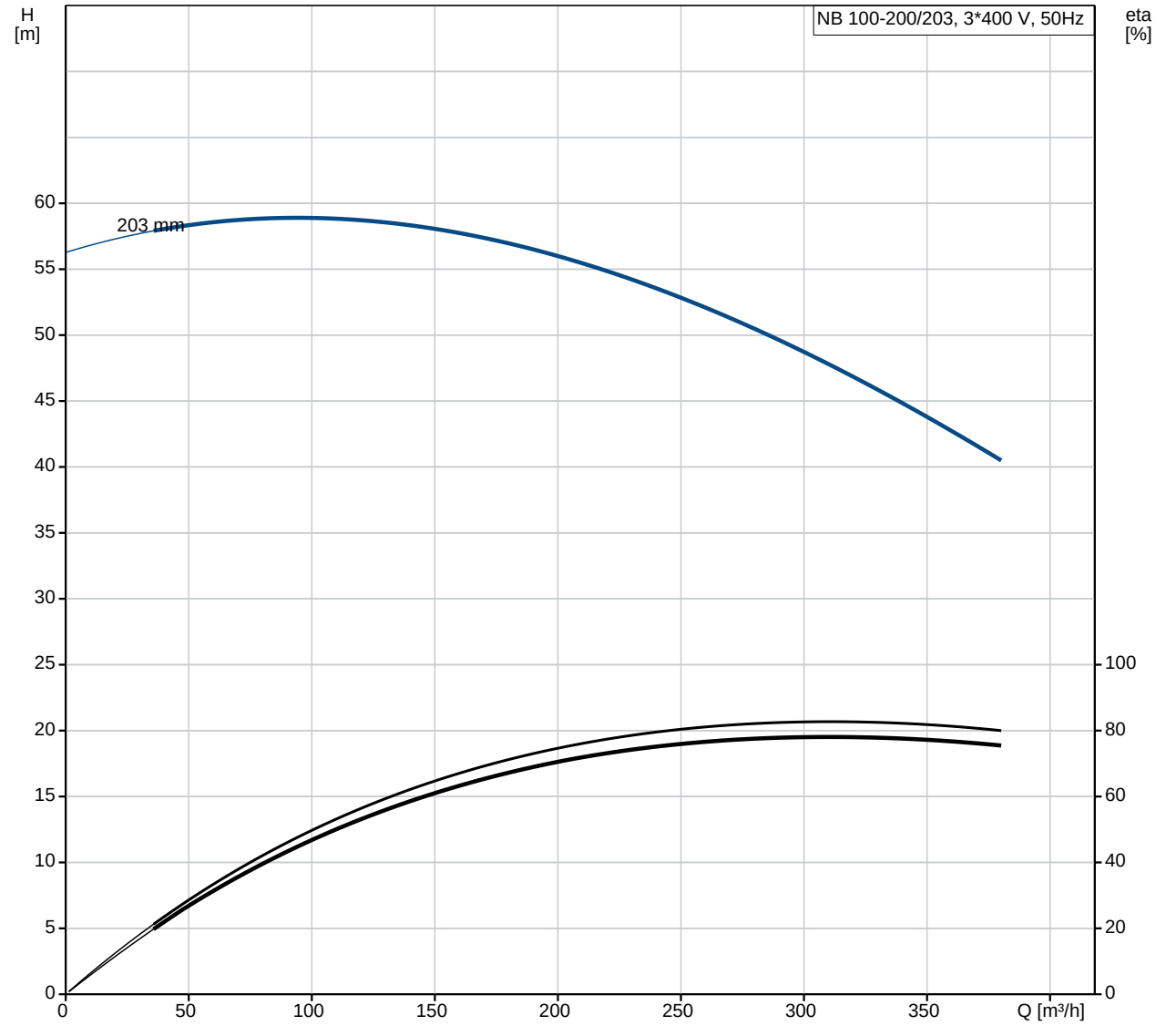
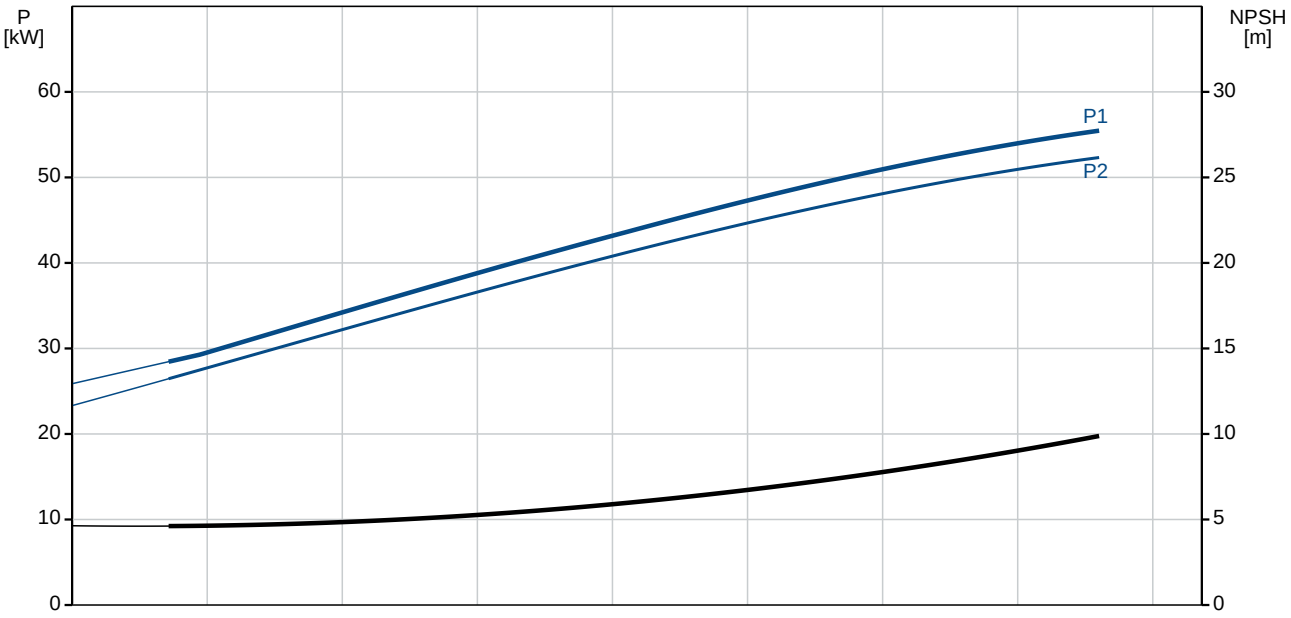
Qty.	Description	
	Curve tolerance:	ISO9906:2012 3B
	Materials:	
	Pump housing:	Cast iron EN-GJL-250 ASTM class 35
	Wear ring:	Brass
	Impeller:	Cast iron EN-GJL-200 ASTM class 30
	Shaft:	Stainless steel EN 1.4301 AISI 304
	Installation:	
	Maximum ambient temperature:	55 °C
	Maximum operating pressure:	16 bar
	Pipe connection standard:	EN 1092-2
	Size of inlet connection:	DN 125
	Size of outlet connection:	DN 100
	Pressure rating for pipe connection:	PN 16
	Pump housing with feet:	Y
	Support block:	Y
	Electrical data:	
	IE Efficiency class:	IE3
	P2:	55 kW
	Mains frequency:	50 Hz
	Rated voltage:	3 x 380-420D/660-725Y V
	Rated current:	99,0-92,0/57,0-53,0 A
	Starting current:	670-670 %
	Cos phi - power factor:	0.89
	Rated speed:	2975 rpm
	Efficiency:	IE3 94,3%
	Motor efficiency at full load:	94.3-94.3 %
	Motor efficiency at 3/4 load:	94.5-94.5 %
	Motor efficiency at 1/2 load:	93.9-93.9 %
	Number of poles:	2
	Enclosure class (IEC 34-5):	55 Dust/Jetting
	Insulation class (IEC 85):	F
	Others:	
	Minimum efficiency index, MEI â‰¥:	0.68
	Net weight:	528 kg
	Gross weight:	553 kg
	Shipping volume:	0.821 m^3
	Country of origin:	HU
	Custom tariff no.:	84137051

Company name:
Created by:
Phone:

Date: 21/03/2019

98975725 NB 100-200/203 ASF2ABQQE 50 Hz

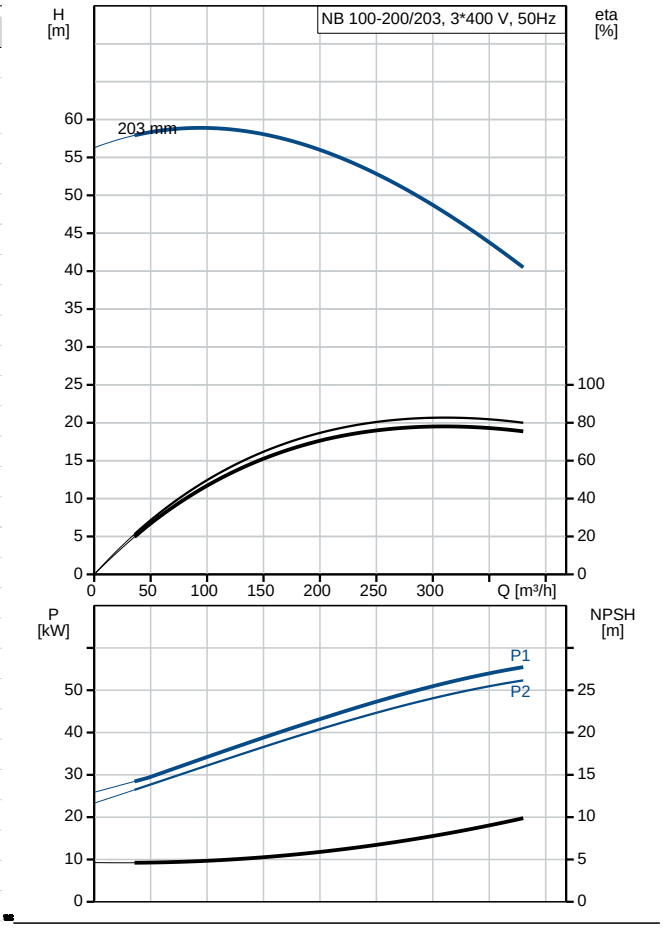


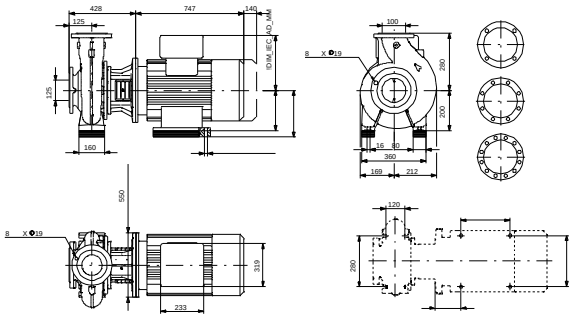


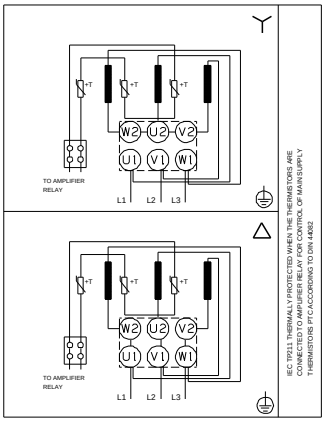
Company name:
Created by:
Phone:

Date: 21/03/2019

Description	Value
General information:	
Product name:	NB 100-200/203 ASF2ABQQE
Product No:	98975725
EAN number:	5712604548103
Price:	8.653,00 GBP
Technical:	
Rated flow:	324 m³/h
Rated head:	46.41 m
Actual impeller diameter:	203 mm
Nominal impeller diameter:	200 mm
Shaft seal arrangement:	Single
Shaft diameter:	32 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	AS
Materials:	
Pump housing:	Cast iron
	EN-GJL-250
	ASTM class 35
Wear ring:	Brass
Impeller:	Cast iron
	EN-GJL-200
	ASTM class 30
Shaft:	Stainless steel
	EN 1.4301
	AISI 304
Material code:	A
Installation:	
Maximum ambient temperature:	55 °C
Maximum operating pressure:	16 bar
Pipe connection standard:	EN 1092-2
Size of inlet connection:	DN 125
Size of outlet connection:	DN 100
Pressure rating for pipe connection:	PN 16
Pump housing with feet:	Y
Support block:	Y
Connect code:	F2
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
IE Efficiency class:	IE3
P2:	55 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	99,0-92,0/57,0-53,0 A
Starting current:	670-670 %
Cos phi - power factor:	0.89
Rated speed:	2975 rpm
Efficiency:	IE3 94,3%
Motor efficiency at full load:	94.3-94.3 %
Motor efficiency at 3/4 load:	94.5-94.5 %
Motor efficiency at 1/2 load:	93.9-93.9 %
Number of poles:	2







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Company name:
Created by:
Phone:

Date: 21/03/2019

Description	Value
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	99032151
Mount. design. acc. IEC 34-7:	IM B35
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI â‰¥:	0.68
Net weight:	528 kg
Gross weight:	553 kg
Shipping volume:	0.821 m³
Country of origin:	HU
Custom tariff no.:	84137051