

Date: 23/12/2022

Qty. | Description

NB 32-160/177 AASF2AESBQQELW1



Product No.: 98856186

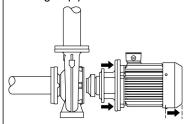
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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 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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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.

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

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/m³

Technical:

Pump speed on which pump data are based: 2930 rpm

Rated flow: 33.34 m³/h
Rated head: 35.32 m
Actual impeller diameter: 177 mm
Nominal impeller diameter: 160
Shaft seal arrangement: Single
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

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:

60°C Max. ambient temperature: Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: **DN 50** Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Υ



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1 Electrical data:

Motor type:132SCIE Efficiency class:IE3Rated power - P2:5.5 kWMains frequency:50 Hz

Rated voltage: 3 x 380-415D V

Rated current: 11 A
Starting current: 1080-1180 %
Cos phi - power factor: 0.87-0.82
Rated speed: 2920-2940 rpm
Efficiency: IE3 89,2%
Motor efficiency at full load: 89.2 %

Motor efficiency at full load: 89.2 % Motor efficiency at 3/4 load: 90.0 % Motor efficiency at 1/2 load: 89.6 % Number of poles: 2

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

Motor No: 87322229

Bearing insulation type N-end: STEEL BEARING

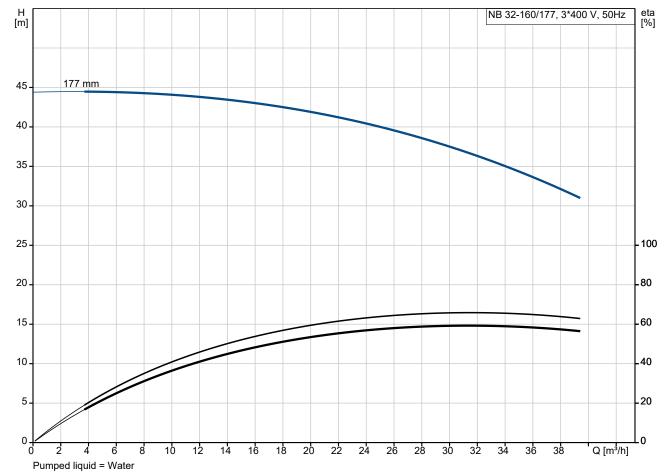
Others:

Country of origin: HU
Custom tariff no.: 84137051

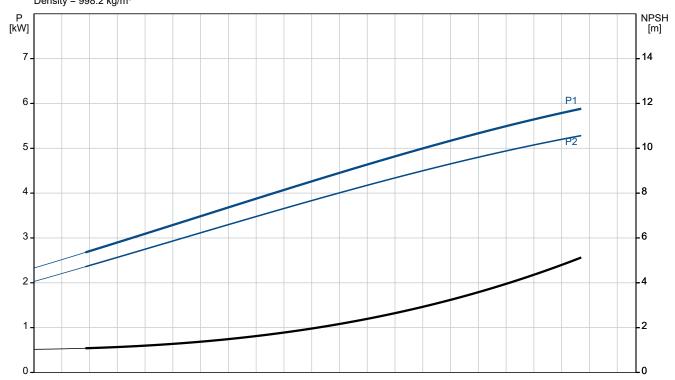


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98856186 NB 32-160/177 AASF2AESBQQELW1 50 Hz



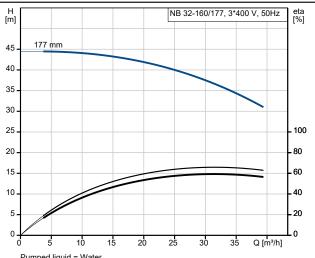
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³



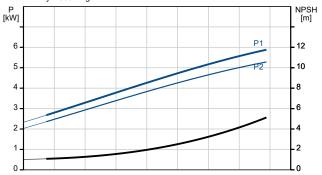


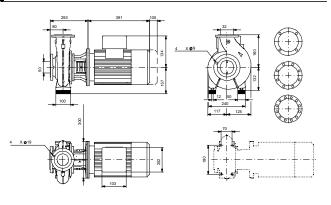
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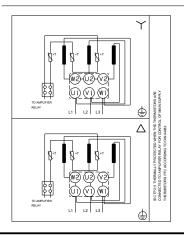
Description	Value	
General information:	ND 22 460/477	
Product name:	NB 32-160/177 AASF2AESBQQELW1	
Product No:	98856186	
EAN number:	5712602454529	
Technical:		
Pump speed on which pump data	2930 rpm	
are based:	2000 · p	
Rated flow:	33.34 m³/h	
Rated head:	35.32 m	
Actual impeller diameter:	177 mm	
Nominal impeller diameter:	160	
Shaft seal arrangement:	Single	
Shaft diameter:	24 mm	
Code for shaft seal:	BQQE	
Curve tolerance:	ISO9906:2012 3B2	
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	
Internal pump house coating: Material code:	CED	
Code for rubber:	A F	
Shaft:	Stainless steel	
Shaft:	EN 1.4301	
Shaft:	AISI 304	
Installation:	A101 304	
Max. ambient temperature:	60 °C	
Maximum operating pressure:	16 bar	
Pipe connection standard:	EN 1092-2	
Size of inlet connection:	DN 50	
Size of outlet connection:	DN 32	
Pressure rating for connection:	PN 16	
Bearing lubrication:	Grease	
Pump housing with feet:	Yes	
Support block (Yes/No):	Y	
Connect code:	F2	
Liquid:		
Pumped liquid:	Water	
Liquid temperature range:	-25 120 °C	
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m³	
Electrical data:		
Motor type:	132SC	
IE Efficiency class:	IE3	
Rated power - P2:	5.5 kW	
Mains frequency:	50 Hz	
Rated voltage:	3 x 380-415D V	
Rated current:	11 A	
Starting current:	1080-1180 %	
Cos phi - power factor:	0.87-0.82	
Rated speed:	2920-2940 rpm	
Efficiency:	IE3 89,2%	
.		



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









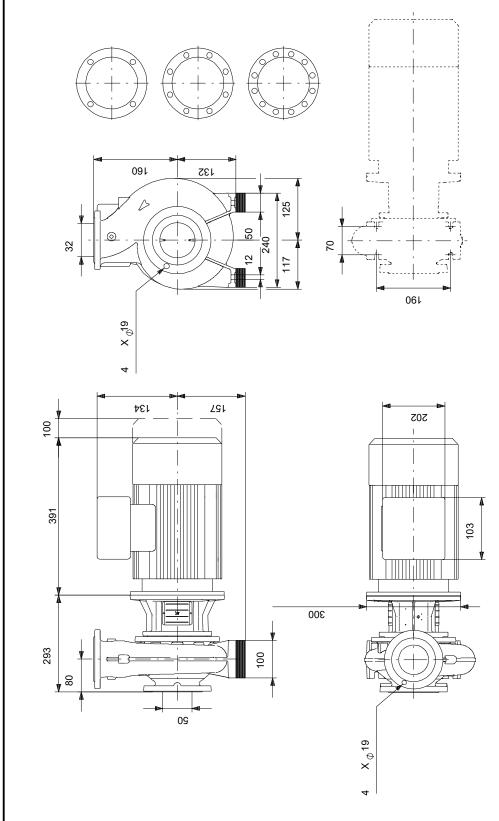
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Description	Value
Motor efficiency at full load:	89.2 %
Motor efficiency at 3/4 load:	90.0 %
Motor efficiency at 1/2 load:	89.6 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	87322229
Mount. design. acc. IEC 34-7:	IM V1/B5
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.59
Net weight:	79 kg
Gross weight:	96 kg
Shipping volume:	0.315 m³
Danish VVS No.:	386060168
Country of origin:	HU
Custom tariff no.:	84137051



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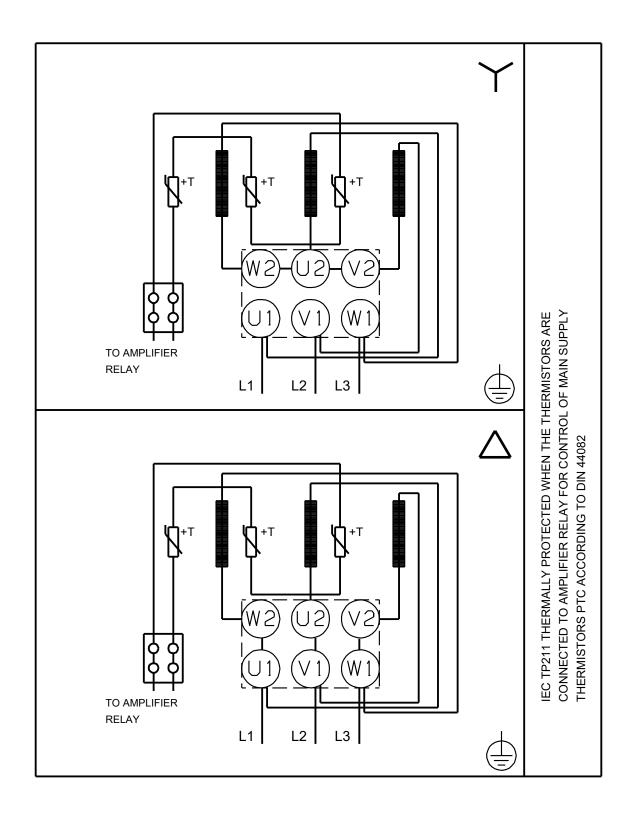
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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



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Order Data:

Position	Your pos.	Product name	Amount	Product No	Total
		NB 32-160/177	1	98856186	Price on request