

**Qty. Description**

1 NB 80-160/151 ASF2ABQQE



Note! Product picture may differ from actual product

Product No.: [98354769](#)

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

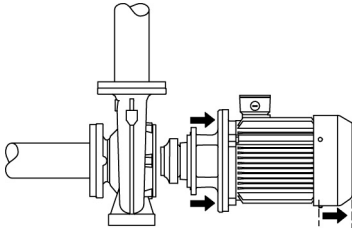
Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

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

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

The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013.

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.

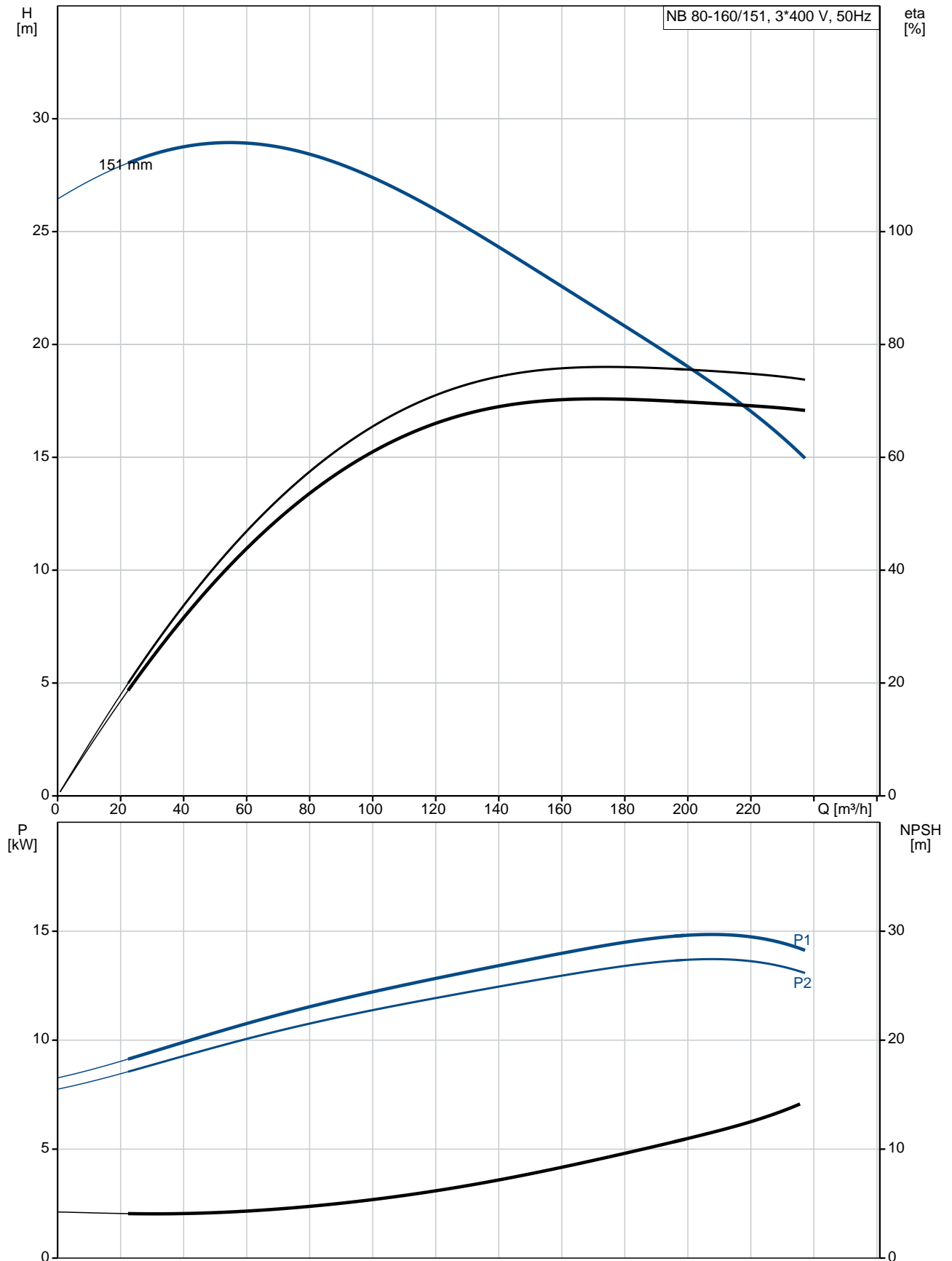
Primary seal:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

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	<p>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.</p> <p>The pump housing has no feet.</p> <p><b>Motor</b>            The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.</p> <p>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.</p> <p><b>Further product details</b></p> <p><b>Technical data</b></p> <p><b>Controls:</b>            Frequency converter: NONE</p> <p><b>Liquid:</b>            Pumped liquid: Water            Liquid temperature range: -25 .. 120 °C            Liquid temperature during operation: 20 °C            Density: 998.2 kg/m<sup>3</sup></p> <p><b>Technical:</b>            Rated flow: 181 m<sup>3</sup>/h            Rated head: 21.54 m            Actual impeller diameter: 151 mm            Nominal impeller diameter: 160 mm</p>

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	<p>Shaft seal arrangement: Single            Code for shaft seal: BQQE            Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b>            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</p> <p><b>Installation:</b>            Maximum ambient temperature: 60 °C            Maximum operating pressure: 16 bar            Pipe connection standard: EN 1092-2            Size of inlet connection: DN 100            Size of outlet connection: DN 80            Pressure rating for pipe connection: PN 16            Pump housing with feet: N</p> <p><b>Electrical data:</b>            IE Efficiency class: IE3            P2: 15 kW            Mains frequency: 50 Hz            Rated voltage: 3 x 380-415D/660-690Y V            Rated current: 28,0-26,0/16,2-15,6 A            Starting current: 660-780 %            Cos phi - power factor: 0.89-0.87            Rated speed: 2930-2950 rpm            Efficiency: IE3 91,9%            Motor efficiency at full load: 91.9 %            Motor efficiency at 3/4 load: 92.4 %            Motor efficiency at 1/2 load: 92.4 %            Number of poles: 2            Enclosure class (IEC 34-5): 55 Dust/Jetting            Insulation class (IEC 85): F</p> <p><b>Others:</b>            Minimum efficiency index, MEI <math>\hat{\alpha}\%</math>: 0.70            Net weight: 163 kg            Gross weight: 188 kg            Shipping volume: 0.707 m<sup>3</sup>            Country of origin: HU            Custom tariff no.: 84137051</p>

## 98354769 NB 80-160/151 ASF2ABQQE 50 Hz







Company name:

Created by:

Phone:

Date:

21/03/2019

Description	Value
Motor protec:	PTC
Motor No:	87420029
Mount. design. acc. IEC 34-7:	IM B35
<b>Controls:</b>	
Frequency converter:	NONE
<b>Others:</b>	
Minimum efficiency index, MEI $\eta_{\%}$ :	0.70
Net weight:	163 kg
Gross weight:	188 kg
Shipping volume:	0.707 m <sup>3</sup>
Country of origin:	HU
Custom tariff no.:	84137051

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