

NB50-160/177 D-F2-A-BAQE

Grundfos Pump 97836783



Thank you for your interest in our products

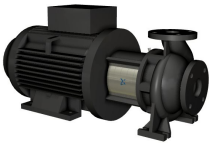
Please contact us for more information, or visit our website

<https://www.lenntech.com/grundfos/NB000/97836783/NB-50-160-177-D-F2-A-E-BAQE.html>

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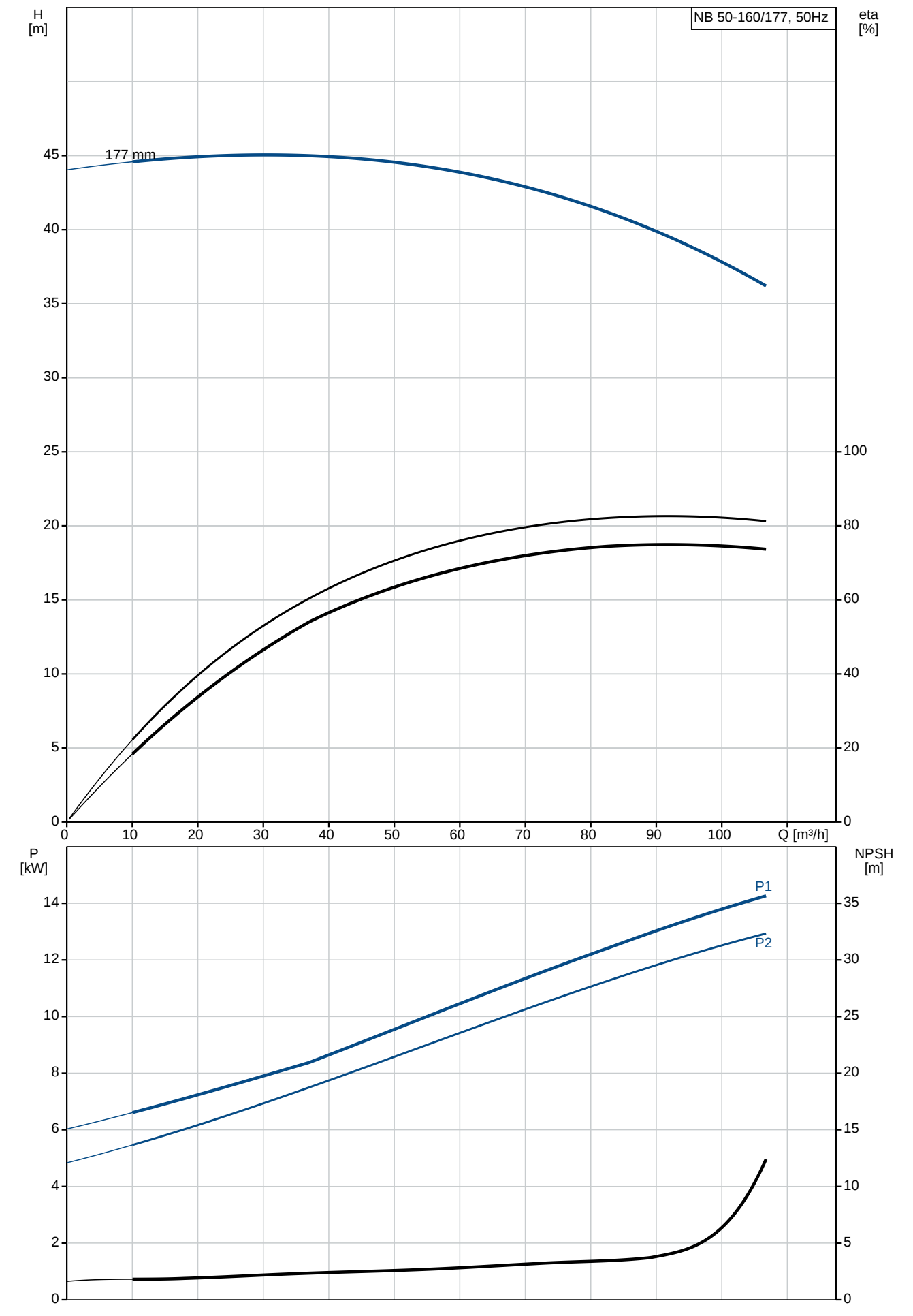
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Position	Qty.	Description
	1	NB 50-160/177 D-F2-A-E-BAQE  Product No.: 97836783 Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar). Flanges are PN 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. Further product details 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. An integral part of the process is a pretreatment. The entire process consists of these elements: 1) Alkaline-based cleaning. 2) Zinc phosphating. 3) Cathodic electro-deposition. 4) Curing to a dry film thickness 18-22 my m. The colour code for the finished product is NCS 9000/RAL 9005. 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: Carbon graphite, metal-impregnated - Stationary seat material: Silicon carbide (SiC) This material pairing has a very good corrosion resistance and is especially suitable for water up to +120 °C. However, seal life will be reduced at temperatures above +90 °C. The material pairing is not recommended for liquids containing particles as this will result in heavy wear on the SiC face.

Position	Qty.	Description
		Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils. 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 IE2 in accordance with IEC 60034-30. 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. 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. Technical data Liquid: Pumped liquid: Water Liquid temperature range: 0 .. 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Speed for pump data: 2940 rpm Rated flow: 94.7 m³/h Rated head: 38.6 m Actual impeller diameter: 177 mm Impeller nom: 160 mm Primary shaft seal: BAQE Secondary shaft seal: NONE Curve tolerance: ISO9906:2012 3B Materials: Pump housing: Cast iron EN-GJL-250 ASTM A48-40 B Impeller: Cast iron EN-GJL-200 ASTM A48-30 B Shaft: Stainless steel 1.4301 304 Rubber: EPDM Wear ring mat.: High alloy brass(CuZn34Mn3Al2 Installation: Maximum ambient temperature: 60 °C Maximum operating pressure: 16 bar Flange standard: EN 1092-2 Pump inlet: DN 65 Pump outlet: DN 50 Pressure rating: PN 16 Electrical data: Motor type: MMG160MB IE Efficiency class: IE2 [IE2] Rated power - P2: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 28,0-25,5/16,0-14,6 A

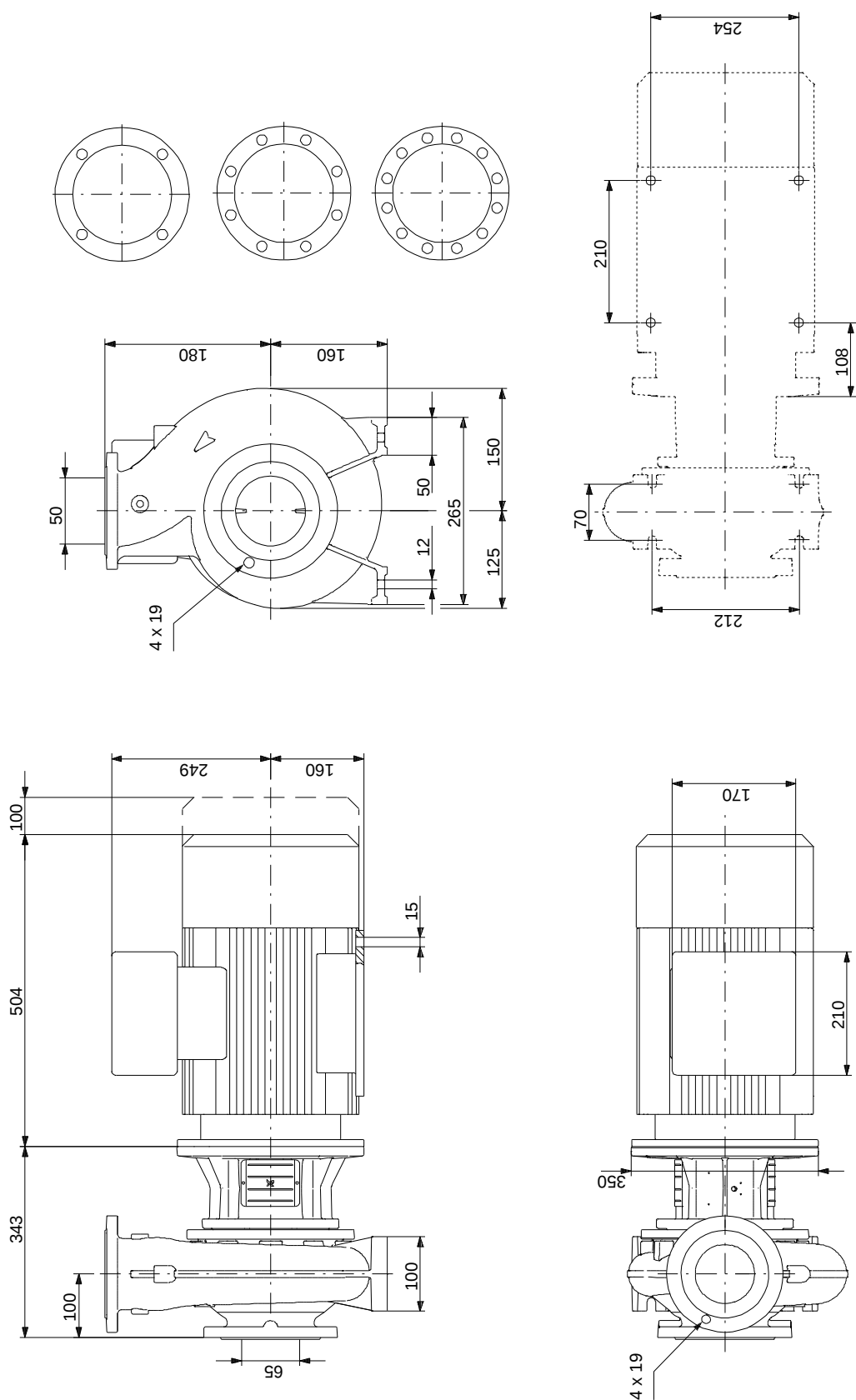
Position	Qty.	Description
		Starting current: 750-750 % Cos phi - power factor: 0,9 Rated speed: 2940 rpm Efficiency: IE2 90,7% Motor efficiency at full load: 90.7-90.7 % Motor efficiency at 3/4 load: 90.7-90.7 % Motor efficiency at 1/2 load: 89.5-89.5 % Number of poles: 2 Enclosure class (IEC 34-5): 55 (Protect. water jets/dust) Insulation class (IEC 85): F Lubricant type: Grease Others: Minimum efficiency index, MEI ≥: 0.70 ErP status: EuP Standalone/Prod. Net weight: 163 kg Gross weight: 185 kg Shipping volume: 0.509 m³

97836783 NB 50-160/177 50 Hz



Description	Value
Mount. design. acc. IEC 34-7:	IM B35
Lubricant type:	Grease
Others:	
Minimum efficiency index, MEI ≥:	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	163 kg
Gross weight:	185 kg
Shipping volume:	0.509 m ³

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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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*Disclaimer: The information about the Grundfos pump in this document may be outdated.
Data may be subject to alterations without further notice.
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