GRUNDFOS **DATA BOOKLET**

NB32-160.1/155 A-F2-A-BAQE

Grundfos Pump 95108936

Thank you for your interest in our products
Please contact us for more information, or visit our website
https://www.lenntech.com/grundfos/NB000/95108936/NB-32-160-1-155-A-F2-A-E-BAQE.html

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Position	Qty.	Description
	1	**NB 32-160.1/155 A-F2-A-E-BAQE**

Product No.: 95108936

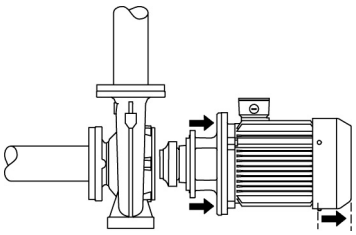
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar). Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out 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 does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

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:	1410 rpm
Rated flow:	9 m³/h
Rated head:	5.6 m
Actual impeller diameter:	155 mm
Impeller nom:	160.1 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:

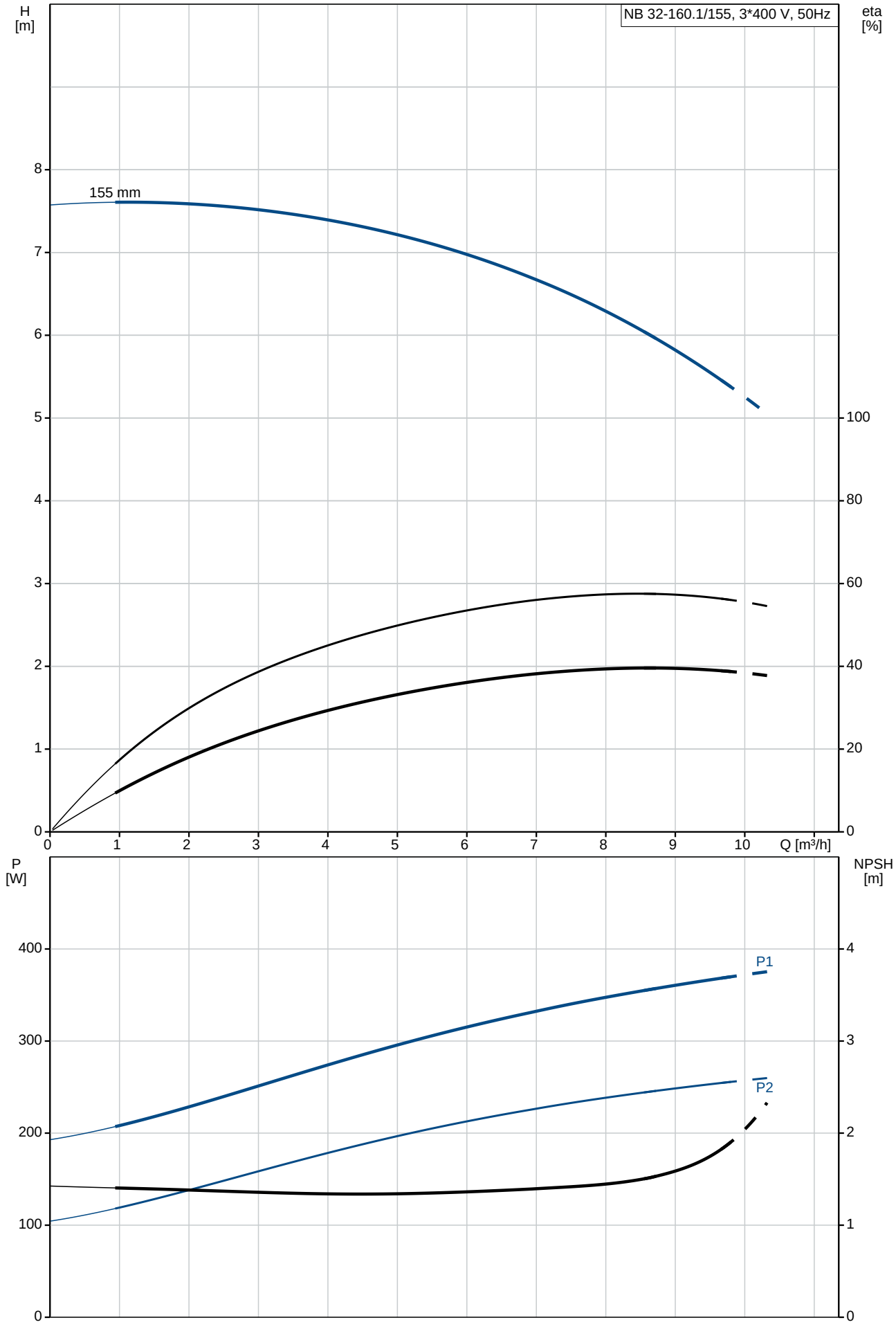
Maximum ambient temperature:	40 °C
Maximum operating pressure:	16 bar
Flange standard:	EN 1092-2
Pump inlet:	DN 50
Pump outlet:	DN 32
Pressure rating:	PN 16

Electrical data:

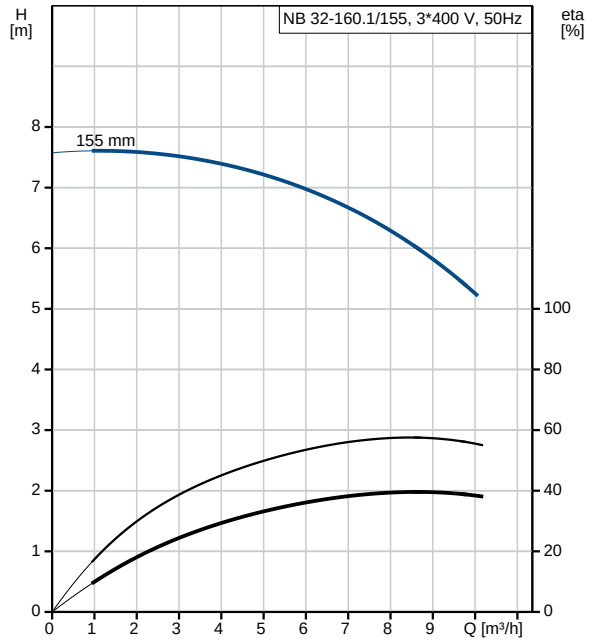
Motor type:	71A
Rated power - P2:	0.25 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	1,48/0,85 A
Starting current:	400-440 %
Cos phi - power factor:	0,75-0,65
Rated speed:	1400-1420 rpm
Efficiency:	61,5% - 68,5%
Motor efficiency at full load:	61.5-68.5 %
Motor efficiency at 3/4 load:	70 %
Motor efficiency at 1/2 load:	63.9 %
Number of poles:	4
Enclosure class (IEC 34-5):	55 Dust/Jetting

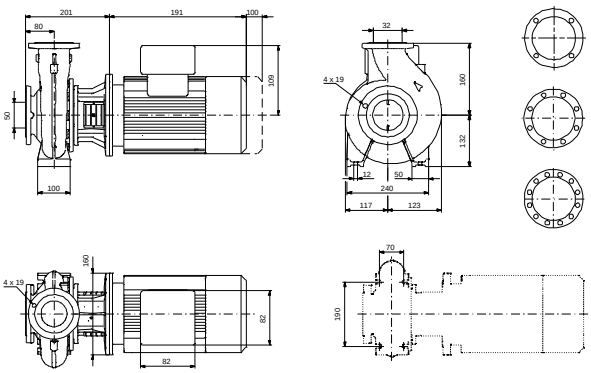
Position	Qty.	Description
		Insulation class (IEC 85): F Lubricant type: Grease **Others:** Minimum efficiency index, MEI ≥: 0.70 ErP status: EuP Standalone/Prod. Net weight: 30 kg Gross weight: 41 kg Shipping volume: 0.134 m³

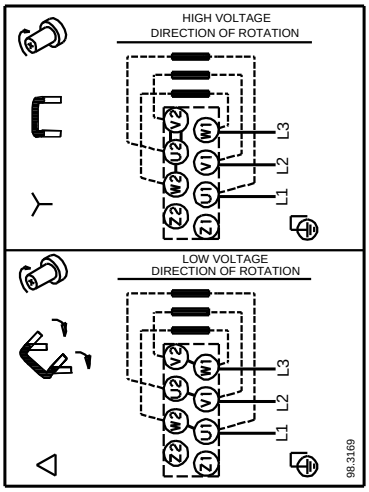
95108936 NB 32-160.1/155 50 Hz



Description	Value
General information:	
Product name:	NB 32-160.1/155 A-F2-A-E-BAQE
Product No:	95108936
EAN number:	5700836484146
Technical:	
Speed for pump data:	1410 rpm
Rated flow:	9 m³/h
Rated head:	5.6 m
Actual impeller diameter:	155 mm
Impeller nom:	160.1 mm
Primary shaft seal:	BAQE
Secondary shaft seal:	NONE
Shaft diameter:	24 mm
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
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
Material code:	A
Rubber:	EPDM
Code for rubber:	E
Wear ring mat.:	High alloy brass(CuZn34Mn3Al2
Installation:	
Maximum ambient temperature:	40 °C
Maximum operating pressure:	16 bar
Flange standard:	EN 1092-2
Connect code:	F2
Pump inlet:	DN 50
Pump outlet:	DN 32
Pressure rating:	PN 16
Wear ring(s):	neckring(s)
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	0 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	71A
Rated power - P2:	0.25 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	1,48/0,85 A
Starting current:	400-440 %
Cos phi - power factor:	0,75-0,65
Rated speed:	1400-1420 rpm
Efficiency:	61,5% - 68,5%
Motor efficiency at full load:	61.5-68.5 %
Motor efficiency at 3/4 load:	70 %
Motor efficiency at 1/2 load:	63.9 %
Number of poles:	4
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	87100304
Mount. design. acc. IEC 34-7:	IM V1/B5







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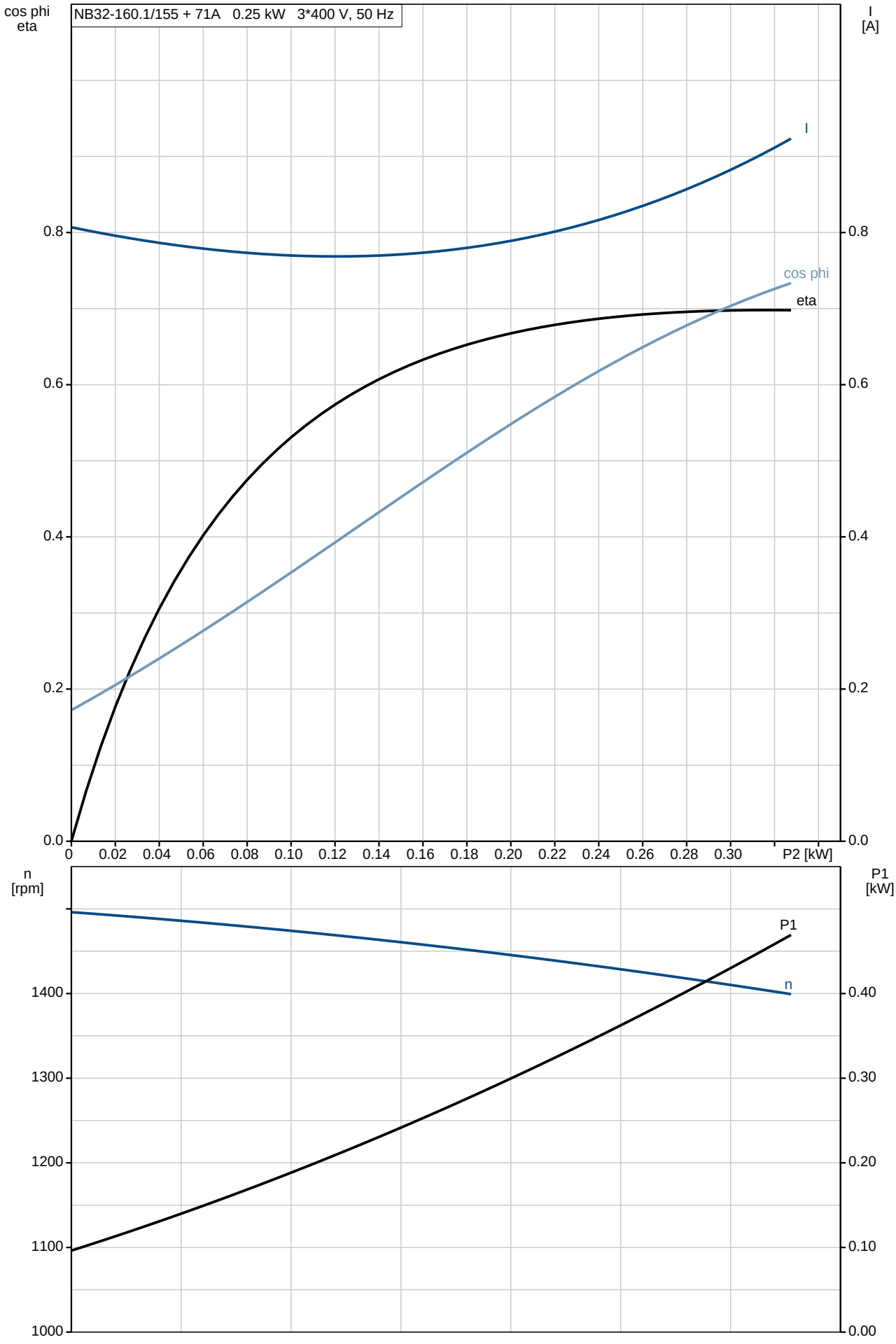
Description	Value
Lubricant type:	Grease
Others:	
Minimum efficiency index, MEI ≥:	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	30 kg
Gross weight:	41 kg
Shipping volume:	0.134 m³

95108936 NB 32-160.1/155 50 Hz



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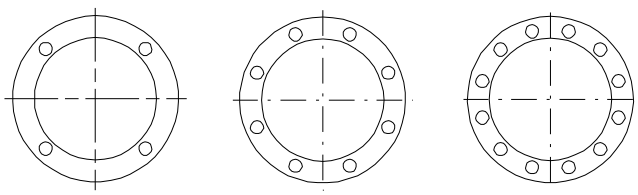
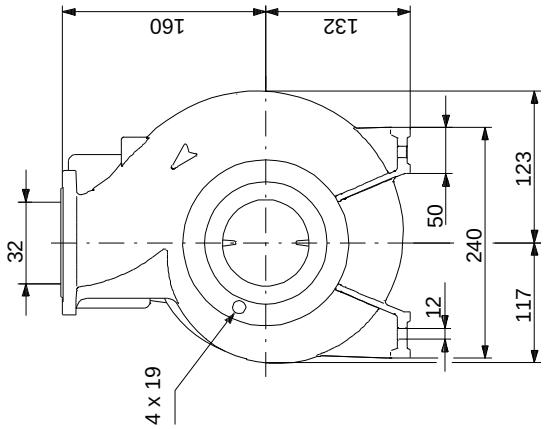
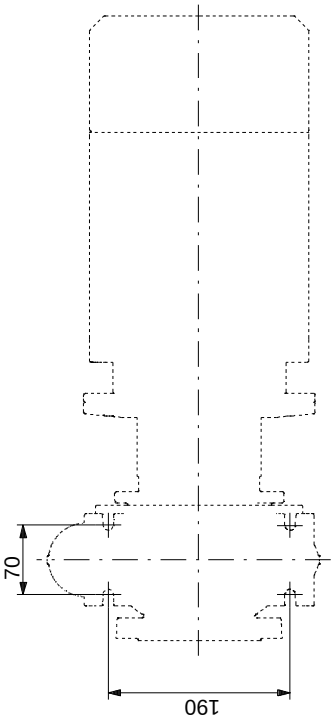
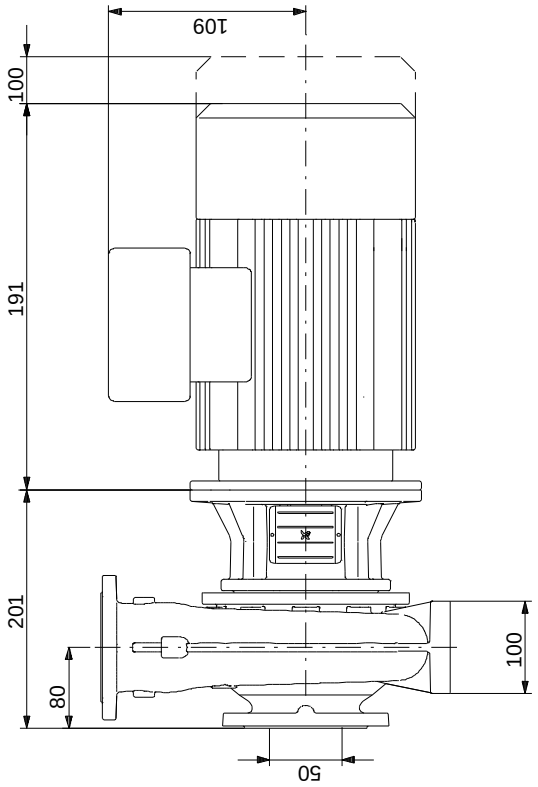
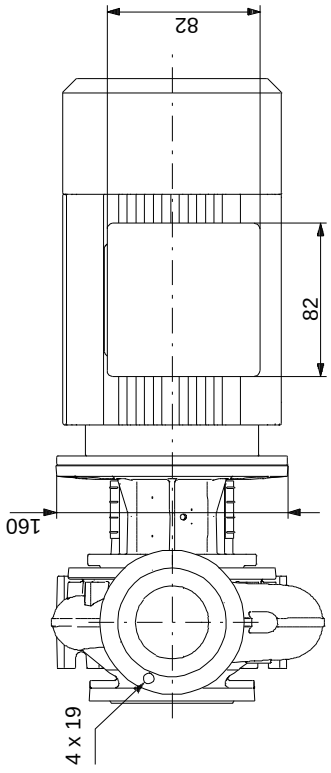
95108936 NB 32-160.1/155 50 Hz





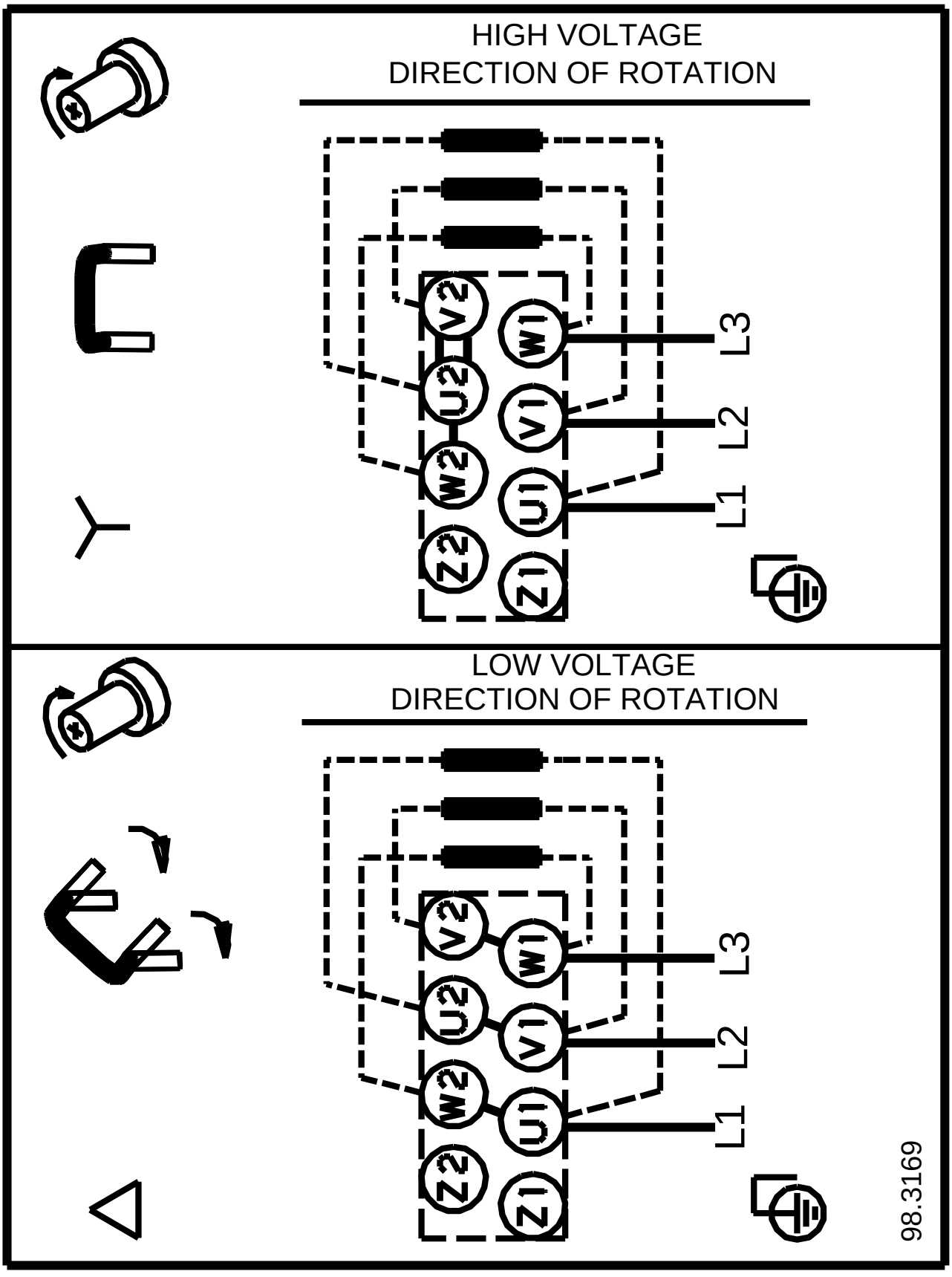






Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

95108936 NB 32-160.1/155 50 Hz



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

Disclaimer: The information about the Grundfos pump in this document may be outdated.
Data may be subject to alterations without further notice.
Please contact us to verify the data above is still accurate/up-to-date.

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