

NK32-200.1/196A2F2AE-SBAQE

Grundfos pump 96594496



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<https://www.lenntech.com/grundfos/NKBASIS/96594496/NK-32-200-1-196-A2-F-A-E-BAQE.html>

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Position	Qty.	Description
	1	NK 32-200.1/196 A2-F-A-E-BAQE  Product No.: On request Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733. Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, a radial discharge port and horizontal shaft. It is of the back pull-out design enabling removal of the coupling, bearing bracket and impeller without disturbing the motor, pump housing or pipework. The unbalanced rubber bellows seal is according to DIN EN 12756. The pump is fitted with a foot-mounted, fan-cooled asynchronous motor. Pump and motor are mounted on a common base frame. 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. Pump and motor are mounted on a common steel base frame in accordance with ISO 3661. The back pull-out design together with a spacer coupling makes it possible to make service on the pump without dismantling the pump housing and motor from the base frame. This saves realignment of pump and motor after service. 1) Remove coupling. 2) Remove the bolts in the bearing bracket support foot. 3) Remove the bearing bracket from the pump housing.  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. 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.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

The shaft is made of stainless steel and has a diameter of 24 mm where the coupling is mounted.

The pump uses a spacer coupling between the pump and motor shaft.



Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards and mounting designation B3 (IM 1001). 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/I₁).

Technical data

Liquid:

Pumped liquid:	Water
Liquid temperature range:	0 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m ³

Technical:

Rated flow:	10.4 m ³ /h
Rated head:	8.9 m
Actual impeller diameter:	196 mm
Impeller nom:	200.1 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
Rubber:	EPDM
Wear ring mat.:	High alloy brass(CuZn34Mn3Al2

Installation:

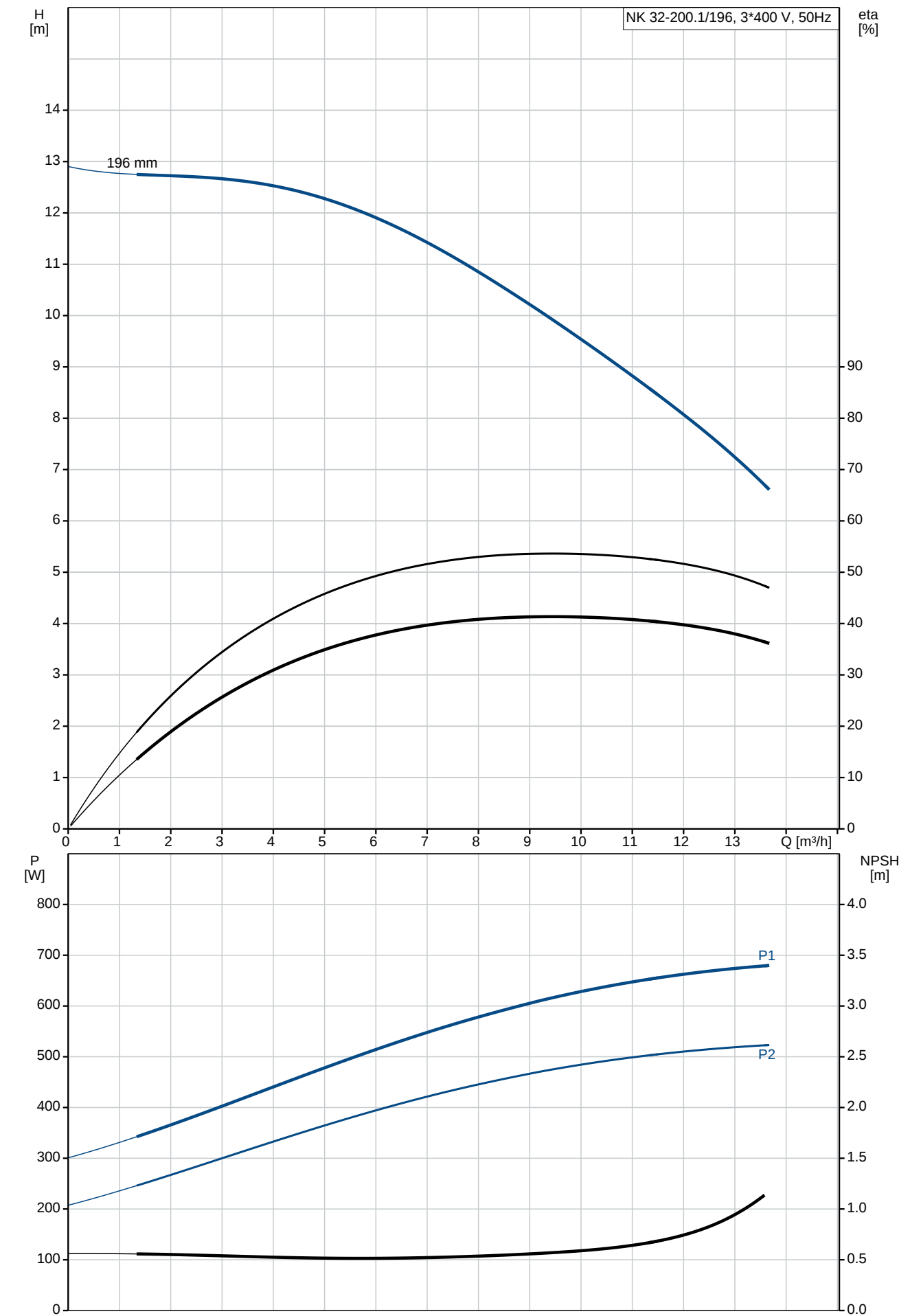
Maximum ambient temperature:	40 °C
Maximum operating pressure:	16 bar
Flange standard:	EN 1092-2
Pump inlet:	DN 50
Pump outlet:	DN 32
Pressure rating:	PN 16
Coupling type:	Spacer
Base frame:	EN / ISO

Electrical data:

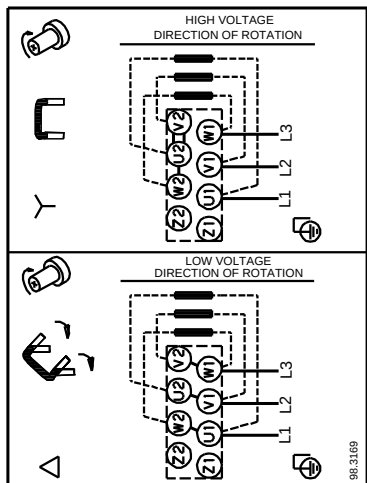
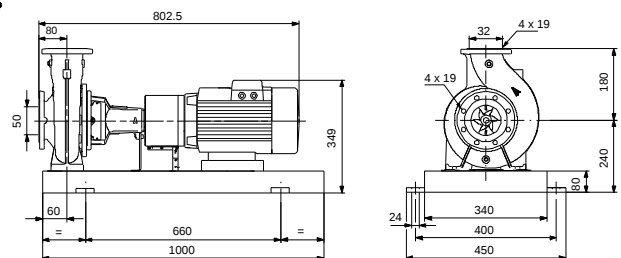
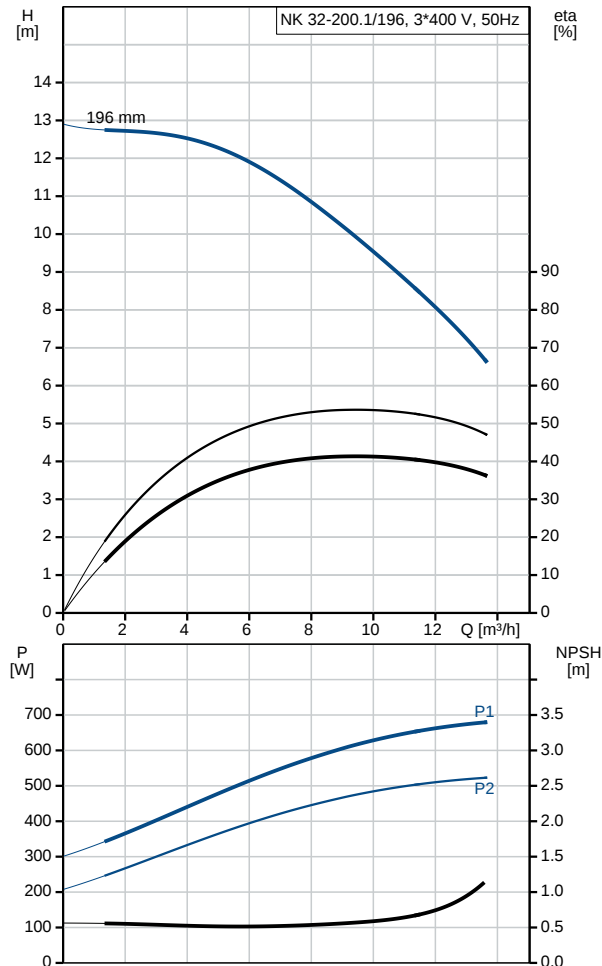
Motor type:	80A
Rated power - P ₂ :	0.55 kW
Mains frequency:	50 Hz

Position	Qty.	Description
		Rated voltage: 3 x 220-240D/380-415Y V Rated current: 2.60/1.50 A Starting current: 430-470 % Cos phi - power factor: 0.79-0.70 Rated speed: 1390-1410 rpm Efficiency: 70.0% Motor efficiency at full load: 70.0 % Motor efficiency at 3/4 load: 79 % Motor efficiency at 1/2 load: 78.1 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Lubricant type: Grease Others: Minimum efficiency index, MEI $\geq$ 0.70 ErP status: EuP Standalone/Prod. Net weight: 108 kg Gross weight: 122 kg Shipping volume: 0.306 m³

On request NK 32-200.1/196 A2-F-A-E-BAQE 50 Hz



Description	Value
General information:	
Product name:	NK 32-200.1/196
Product No:	A2-F-A-E-BAQE
EAN number:	On request
Technical:	
Rated flow:	10.4 m ³ /h
Rated head:	8.9 m
Actual impeller diameter:	196 mm
Impeller nom:	200.1 mm
Primary shaft seal:	BAQE
Secondary shaft seal:	NONE
Shaft diameter:	24 mm
Curve tolerance:	ISO9906:2012 3B
Pump version:	A2
Materials:	
Pump housing:	Cast iron
	EN-GJL-250
	ASTM A48-40 B
Impeller:	Cast iron
	EN-GJL-200
	ASTM A48-30 B
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
Pump inlet:	DN 50
Pump outlet:	DN 32
Pressure rating:	PN 16
Coupling type:	Spacer
Wear ring(s):	neckring(s)
Base frame:	EN / ISO
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	0 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m ³
Electrical data:	
Motor type:	80A
Rated power - P2:	0.55 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	2.60/1.50 A
Starting current:	430-470 %
Cos phi - power factor:	0.79-0.70
Rated speed:	1390-1410 rpm
Efficiency:	70.0%
Motor efficiency at full load:	70.0 %
Motor efficiency at 3/4 load:	79 %
Motor efficiency at 1/2 load:	78.1 %
Number of poles:	4
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	87100384
Lubricant type:	Grease
Others:	
Minimum efficiency index, MEI ≥:	0.70

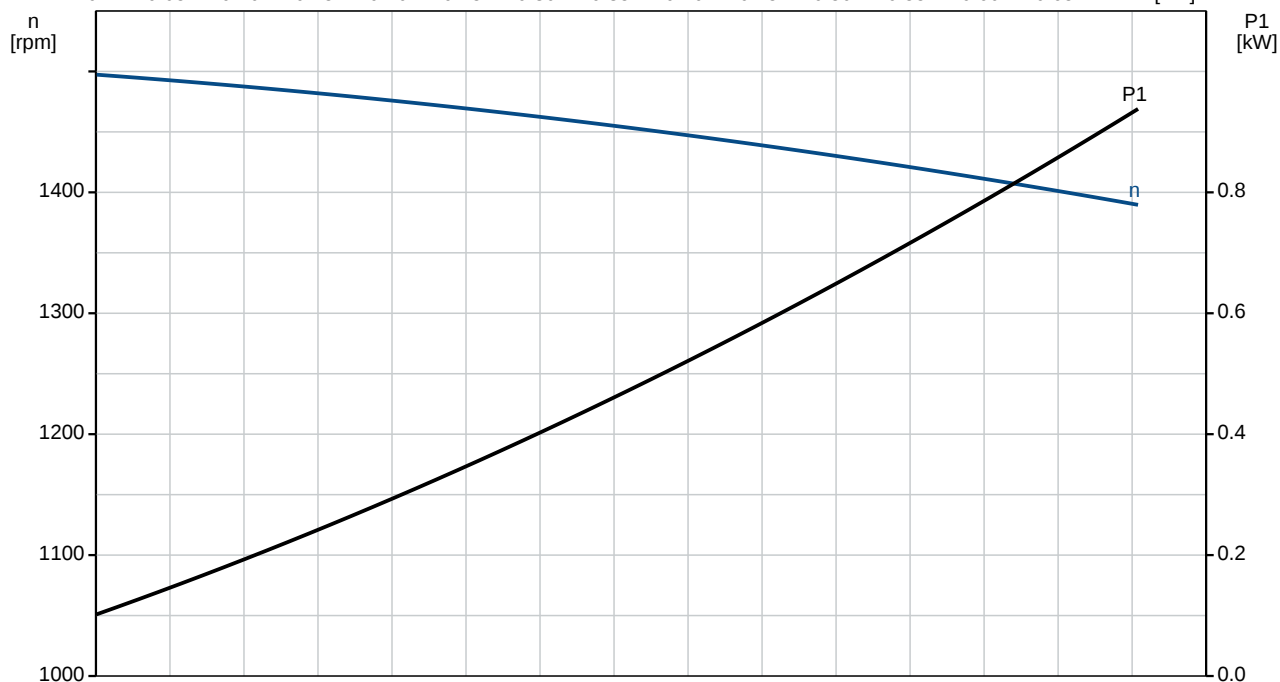
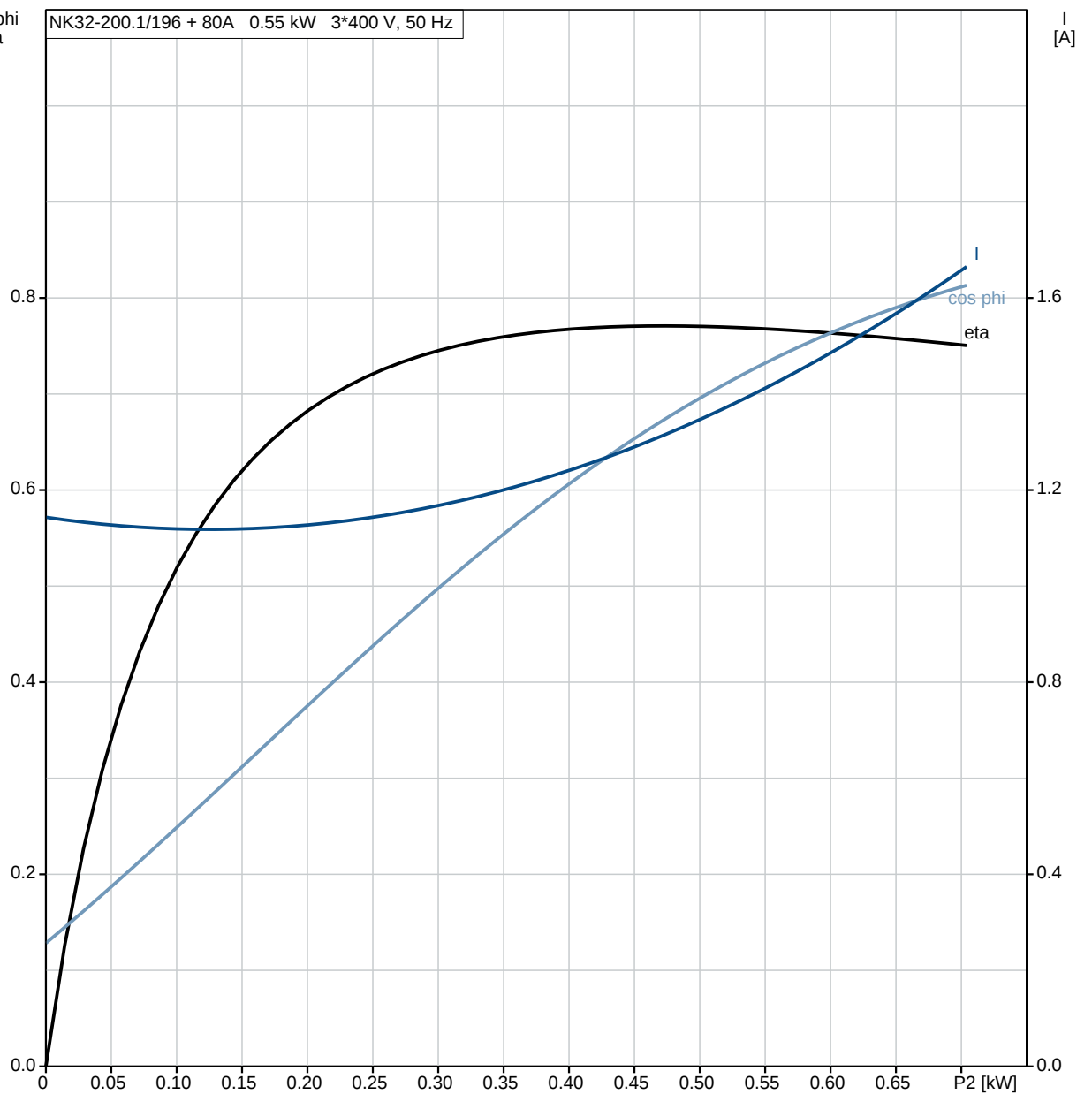


Description	Value
ErP status:	EuP Standalone/Prod.
Net weight:	108 kg
Gross weight:	122 kg
Shipping volume:	0.306 m ³

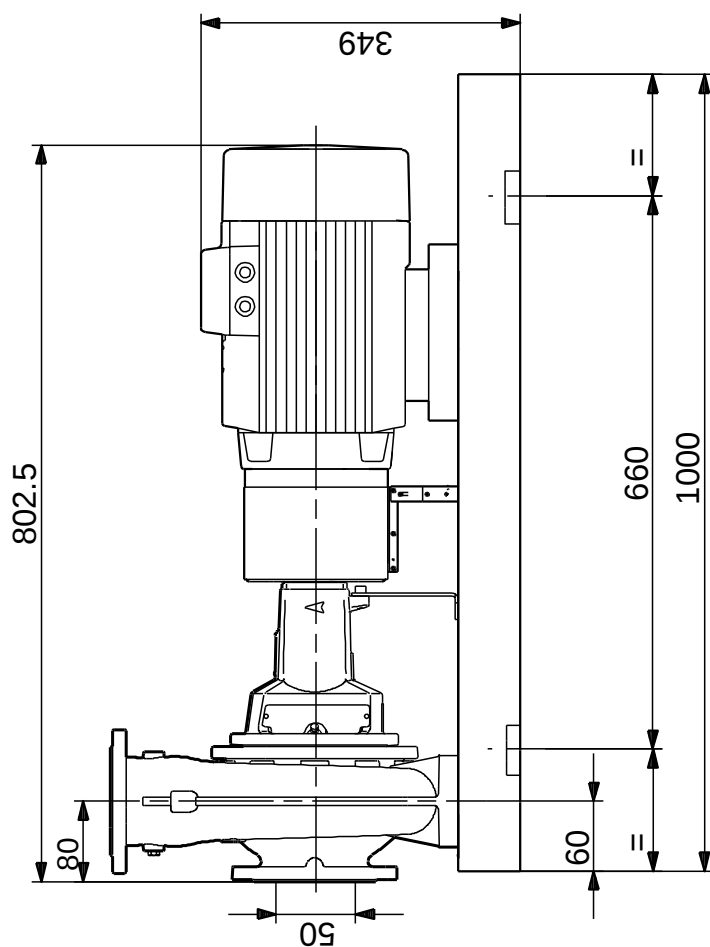
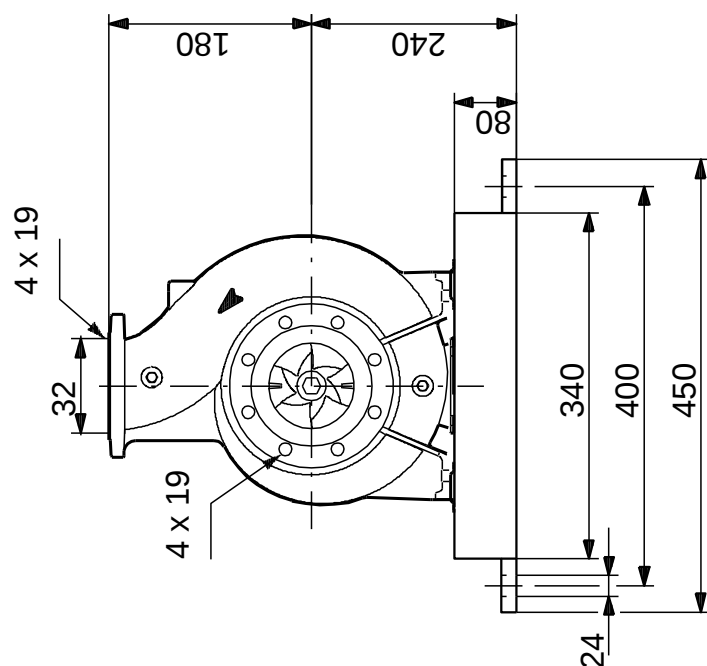
On request NK 32-200.1/196 A2-F-A-E-BAQE 50 Hz

cos phi
eta

NK32-200.1/196 + 80A 0.55 kW 3*400 V, 50 Hz

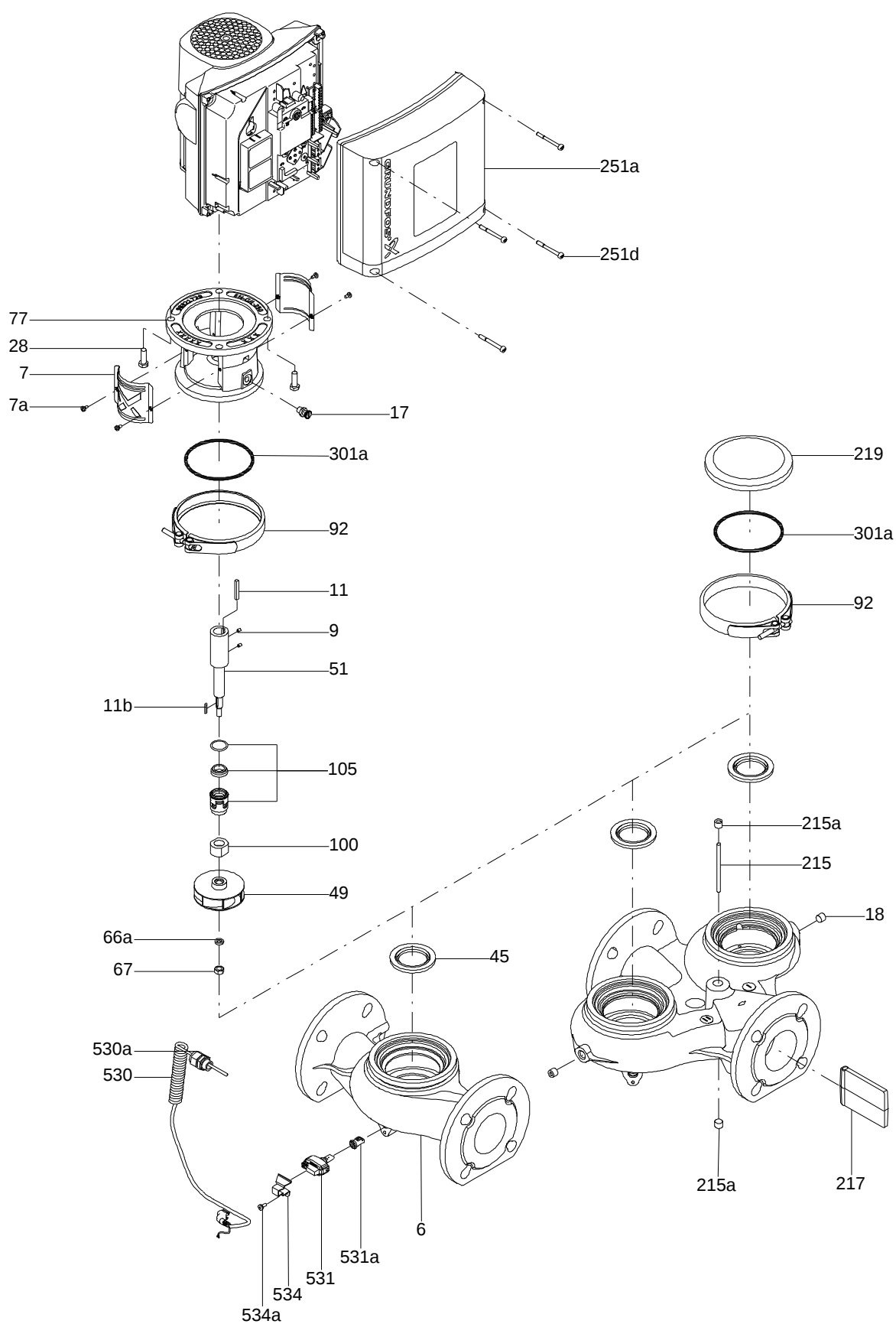


On request NK 32-200.1/196 A2-F-A-E-BAQE 50 Hz



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

Exploded view



Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list NK 32-200.1/196, Product No. On request
Valid from 1.1.2008 (0801)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
+	Motor				1	pcs
-	Coupling cpl.				1	pcs
89	Rubber blocks for coupling				6	
89.b	Socket set screw		Length (mm): 8		2	
			Thread: M6			
89.d	Hex socket head cap screw		Length (mm): 16		12	
			Thread: M6			
89.p	Coupling female				1	
89o	Coupling part spacer side				1	
89r	Spacer sleeve				1	
89s	Spacer ring				1	
-	Nut				1	pcs
66	Washer				1	
66a	Spring lock washer				1	
67	Nut		Thread: M14		1	
-	Pump housing cpl.				1	pcs
6	Pump housing				1	
36	Nut		Thread: M10		8	
	Bearing bracket				1	pcs
-	Shaft seal cpl.				1	pcs
72.a	O-ring		Diameter: 221,84		1	
			Material type: EPDM			
			Thickness: 3,53			
105	Shaft seal		Material type: BAQE		1	
- 7	Coupling guard cpl.				1	pcs
- 7	Coupling guard cpl.				1	
7c	Spacer f/coupling guard				4	
7e	Hex socket head cap screw				3	
94	Lock nut		Thread: M6		2	
7b	Retainer for coupling guard				1	
7k	Hex socket head cap screw		Length (mm): 10		4	
			Thread: M6			
- 7.d	Foot for coupling guard				1	pcs
7d	Foot for coupling guard				1	
49	Impeller		Outer diameter: 196		1	pcs
72.a	O-ring		Diameter: 221,84		1	pcs
			Material type: EPDM			
			Thickness: 3,53			
- 77	Cover cpl.				1	pcs
36	Nut		Thread: M10		6	
77	Cover f/mech. seal				1	
- 90	Base plate				1	pcs
	Hex head screw				4	
	Hex head screw		Length (mm): 35MM		4	
			Thread: M12			
	Hex head screw		Length (mm): 35MM		2	
			Thread: M12			
	Washer				4	
	Base plate				1	
	Support rail				2	
	Support block				2	
7h	Hex head screw		Length (mm): 16		2	
			Thread: M8			
36	Nut				8	
66	Washer				2	
66	Washer				16	
66	Washer				2	

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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