

NK32-160/138A2F2AE-SBAQE

Grundfos pump 96626918



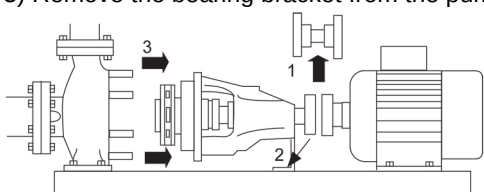
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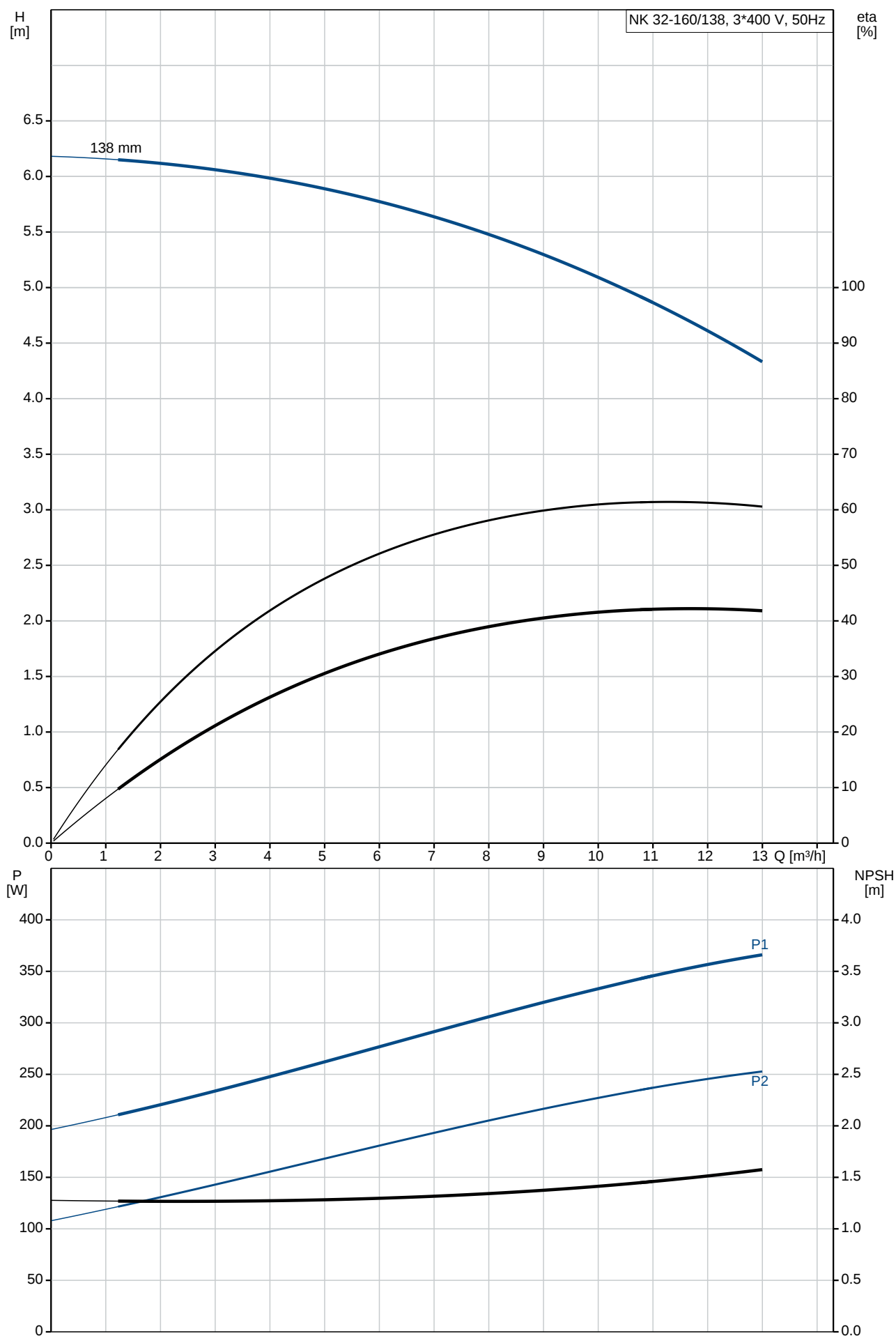
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Position	Qty.	Description
	1	NK 32-160/138 A2-F-A-E-BAQE  Product No.: On request Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733. Flanges are PN 16 with 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 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.

Position	Qty.	Description
		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 (I1/1). Technical data Liquid: Pumped liquid: Water Liquid temperature range: 0 .. 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Rated flow: 10.7 m³/h Rated head: 4.7 m Actual impeller diameter: 138 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 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: 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%

Position	Qty.	Description
		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 Lubricant type: Grease Others: Minimum efficiency index, MEI ≥: 0.60 ErP status: EuP Standalone/Prod. Net weight: 97 kg Gross weight: 110 kg Shipping volume: 0.279 m³

On request NK 32-160/138 A2-F-A-E-BAQE 50 Hz



Description	Value
General information:	
Product name:	NK 32-160/138 A2-F-A-E-BAQE
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	10.7 m³/h
Rated head:	4.7 m
Actual impeller diameter:	138 mm
Impeller nom:	160 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/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:	87100378
Lubricant type:	Grease
Others:	
Minimum efficiency index, MEI ≥:	0.60

Performance Graphs:

Head (H) vs. Flow (Q): The graph shows the pump's head performance. The y-axis represents Head (H) in meters [m], ranging from 0.0 to 6.5. The x-axis represents Flow (Q) in m³/h, ranging from 0 to 12. A single curve is plotted, labeled with the impeller diameter "138 mm". The curve starts at approximately 6.2 m head at 0 m³/h and decreases to about 4.3 m head at 11 m³/h.

Power (P) vs. Flow (Q): The graph shows the pump's power requirements. The left y-axis represents Power (P) in Watts [W], ranging from 0 to 350. The right y-axis represents Net Positive Suction Head (NPSH) in meters [m], ranging from 0.0 to 3.5. The x-axis represents Flow (Q) in m³/h, ranging from 0 to 12. Two curves are plotted: P1 (blue) and P2 (black). P1 starts at approximately 200 W at 0 m³/h and increases to about 350 W at 11 m³/h. P2 starts at approximately 100 W at 0 m³/h and increases to about 150 W at 11 m³/h.

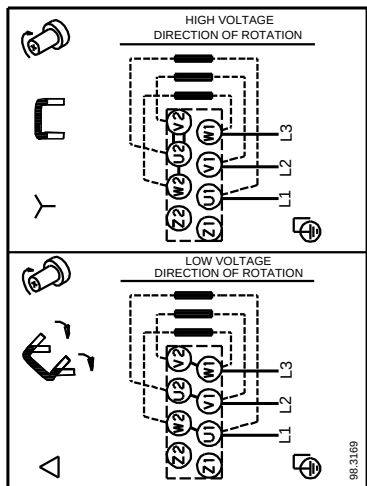
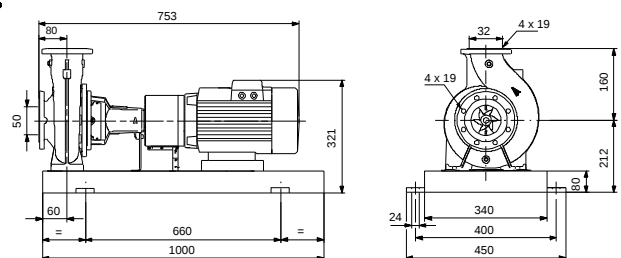
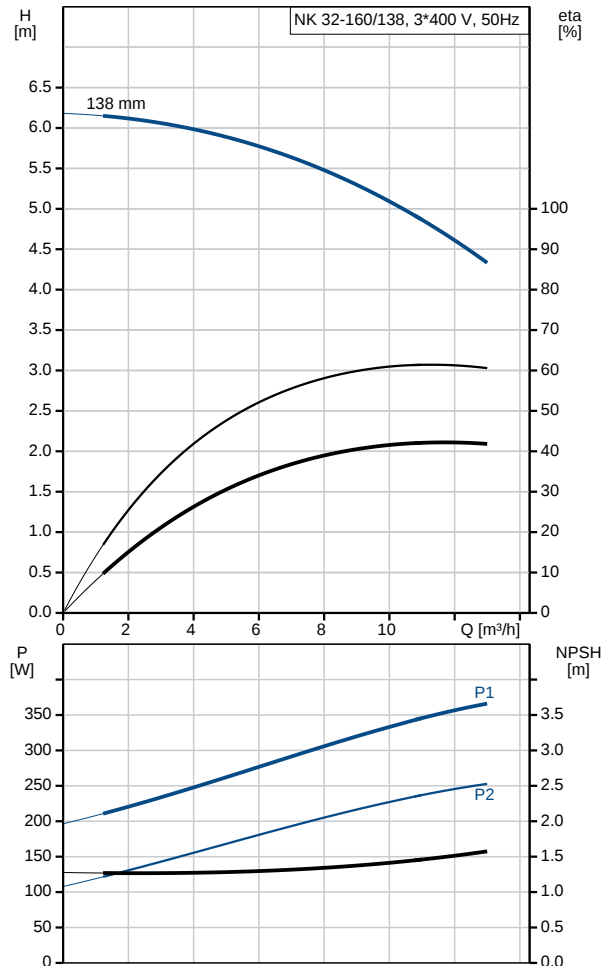
Dimensions:

The pump is shown in two views: a side view and a front view. The side view shows the pump housing, impeller, and motor. The front view shows the pump housing and impeller. The dimensions are as follows:

- Side View: Total width 753 mm, total height 321 mm, inlet diameter 50 mm, outlet diameter 32 mm, base width 660 mm, total base width 1000 mm, base height 60 mm.
- Front View: Total width 450 mm, total height 212 mm, inlet diameter 32 mm, outlet diameter 4 x 19 mm, base width 340 mm, total base width 400 mm, base height 24 mm.

Wiring Diagrams:

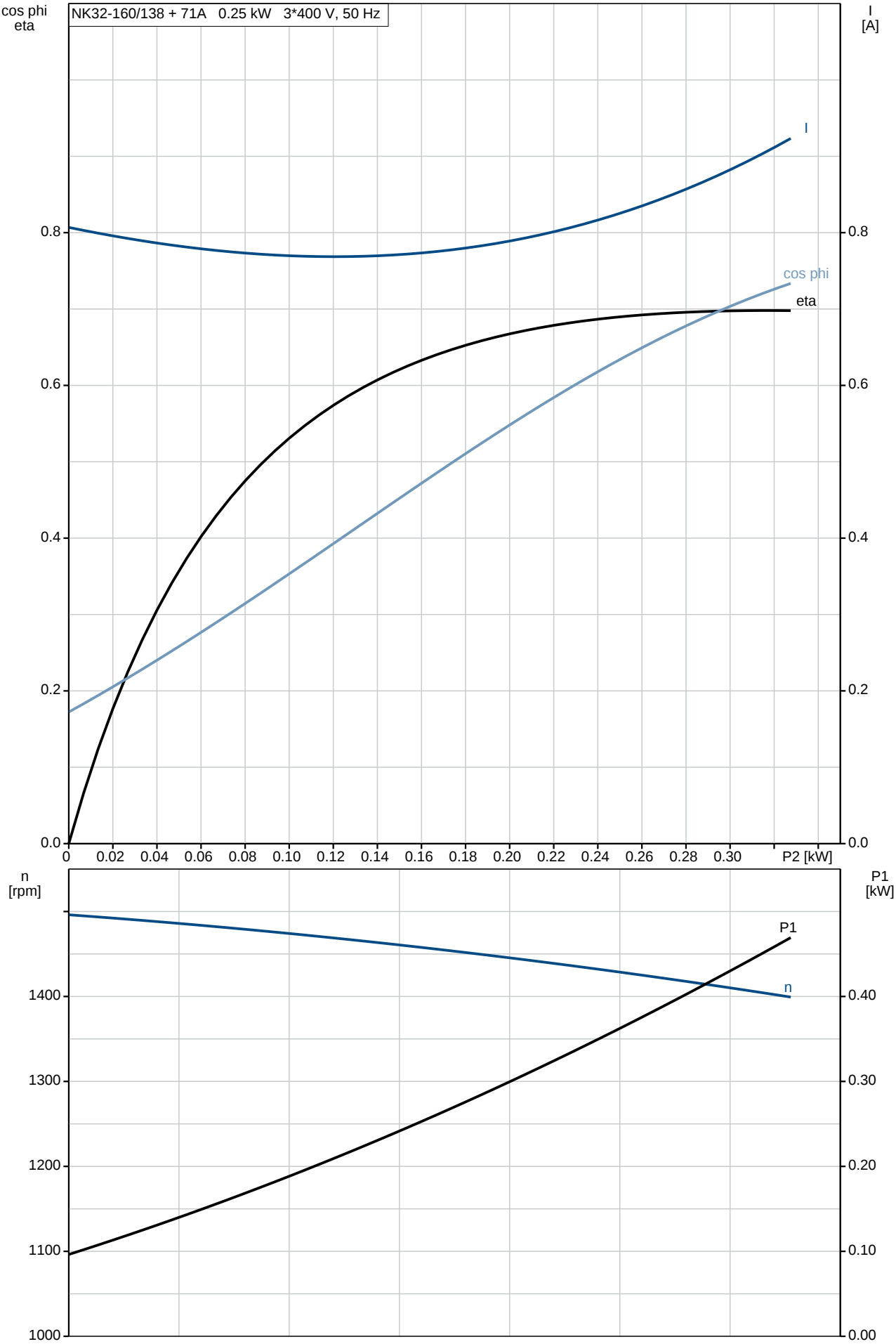
The wiring diagrams show the connection of the pump motor to the power supply. The top diagram is for "HIGH VOLTAGE" and the bottom diagram is for "LOW VOLTAGE". Both diagrams show the motor terminals (L1, L2, L3) and the pump terminals (Z1, Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9, Z10, Z11, Z12, Z13, Z14, Z15, Z16, Z17, Z18, Z19, Z20, Z21, Z22, Z23, Z24, Z25, Z26, Z27, Z28, Z29, Z30, Z31, Z32, Z33, Z34, Z35, Z36, Z37, Z38, Z39, Z40, Z41, Z42, Z43, Z44, Z45, Z46, Z47, Z48, Z49, Z50, Z51, Z52, Z53, Z54, Z55, Z56, Z57, Z58, Z59, Z60, Z61, Z62, Z63, Z64, Z65, Z66, Z67, Z68, Z69, Z70, Z71, Z72, Z73, Z74, Z75, Z76, Z77, Z78, Z79, Z80, Z81, Z82, Z83, Z84, Z85, Z86, Z87, Z88, Z89, Z90, Z91, Z92, Z93, Z94, Z95, Z96, Z97, Z98, Z99, Z100, Z101, Z102, Z103, Z104, Z105, Z106, Z107, Z108, Z109, Z110, Z111, Z112, Z113, Z114, Z115, Z116, Z117, Z118, Z119, Z120, Z121, Z122, Z123, Z124, Z125, Z126, Z127, Z128, Z129, Z130, Z131, Z132, Z133, Z134, Z135, Z136, Z137, Z138, Z139, Z140, Z141, Z142, Z143, Z144, Z145, Z146, Z147, Z148, Z149, Z150, Z151, Z152, Z153, Z154, Z155, Z156, Z157, Z158, Z159, Z160, Z161, Z162, Z163, Z164, Z165, Z166, Z167, Z168, Z169, Z170, Z171, Z172, 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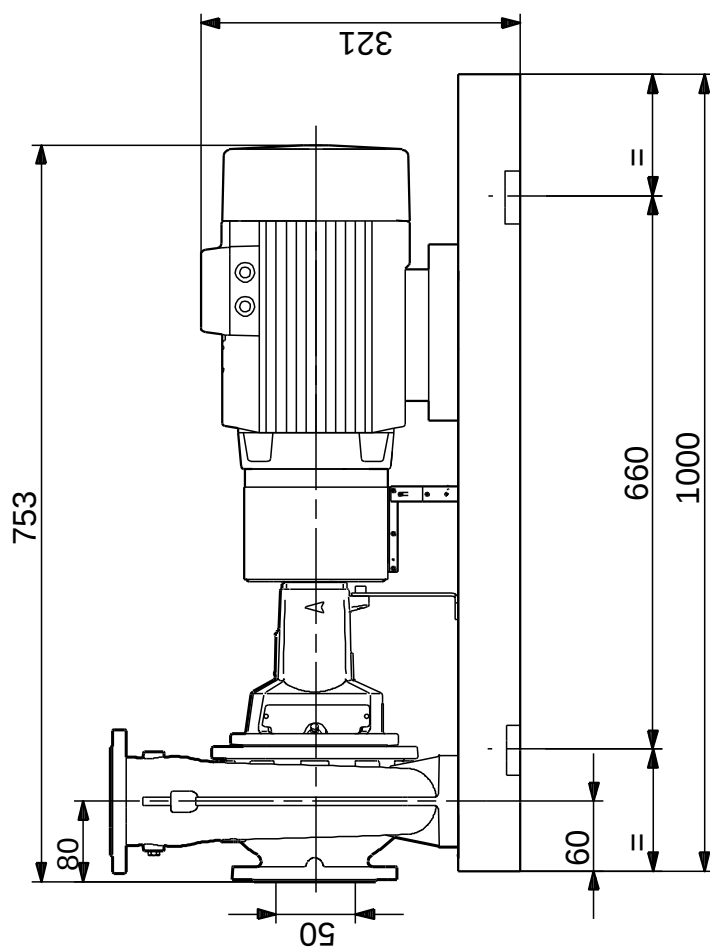
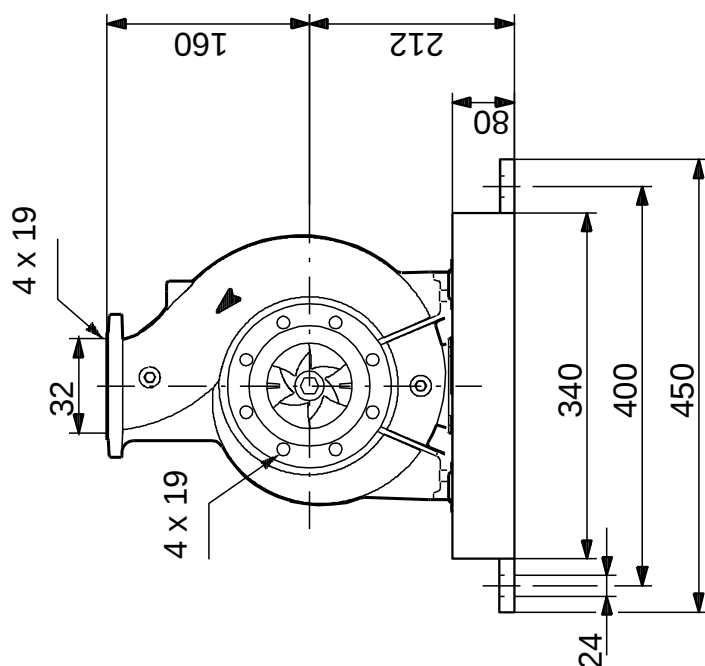
Description	Value
ErP status:	EuP Standalone/Prod.
Net weight:	97 kg
Gross weight:	110 kg
Shipping volume:	0.279 m ³

On request NK 32-160/138 A2-F-A-E-BAQE 50 Hz

NK32-160/138 + 71A 0.25 kW 3*400 V, 50 Hz



On request NK 32-160/138 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

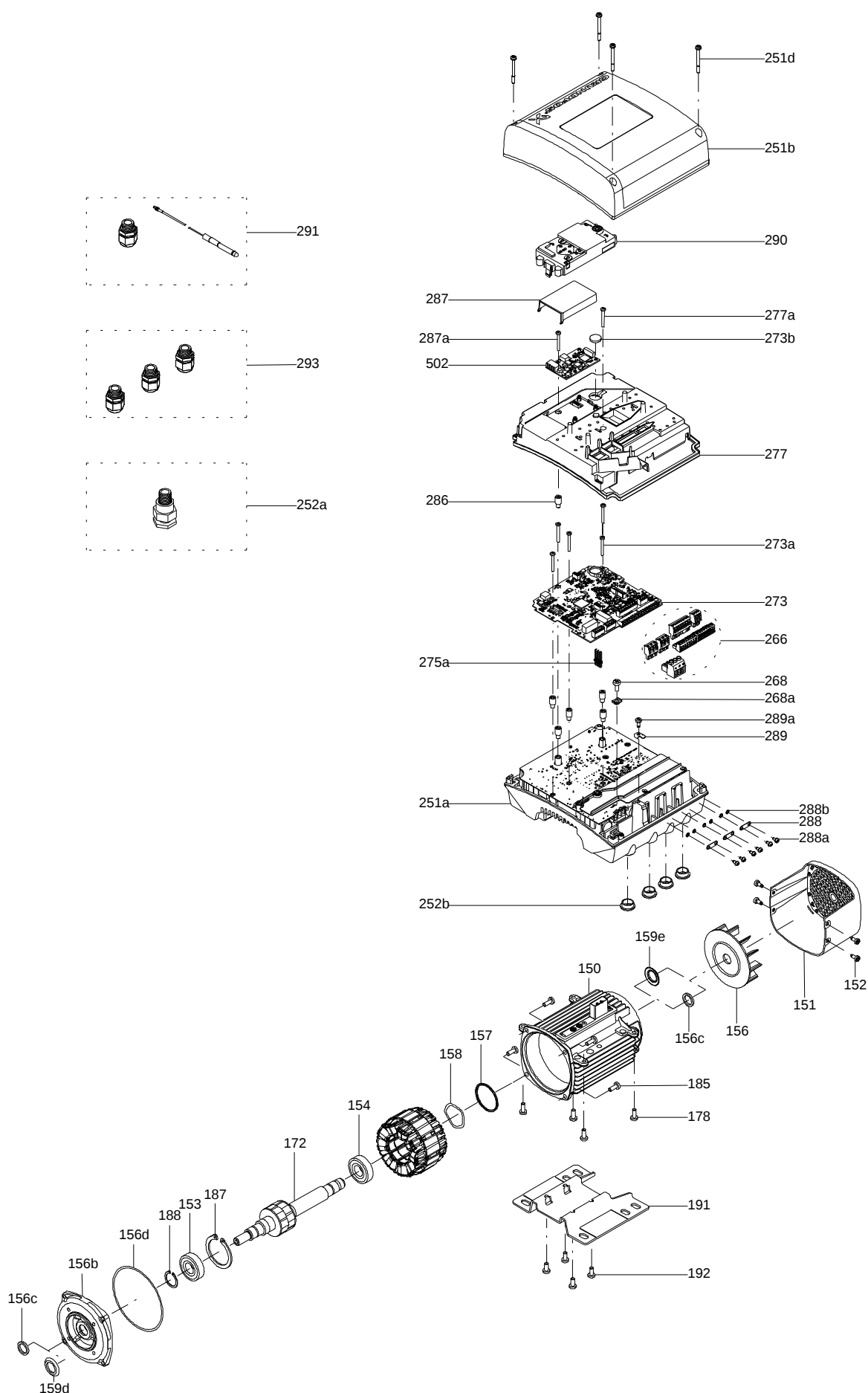


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list NK 32-160/138, 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
9	Socket set screw				1	
89.b	Socket set screw		Length (mm): 8		1	
			Thread: M6			
89.d	Hex socket head cap screw		Length (mm): 16		6	
			Thread: M6			
89.p	Coupling female				1	
89o	Coupling part spacer side				12	
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		6	
	Bearing bracket				1	pcs
-	Shaft seal cpl.				1	pcs
72a	O-ring		Diameter: 177,39		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	
7b	Retainer for coupling guard				1	
186	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				1	pcs
-	77 Cover				1	pcs
77	Cover				1	
-	90 Base plate				1	pcs
	Hex head screw		Length (mm): 35MM		4	
			Thread: M12			
	Hex head screw		Length (mm): 35MM		2	
			Thread: M12			
	Hex head screw				4	
	Nut				8	
	Washer				4	
	Base plate				1	
	Support rail				2	
	Support block				2	
	Hex head bolt				4	
7h	Hex head screw		Length (mm): 16		2	
			Thread: M8			
66	Washer				16	
66	Washer				2	
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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