

NB32-125.1/139 A-F2-A-BAQE

Grundfos pump 96124944



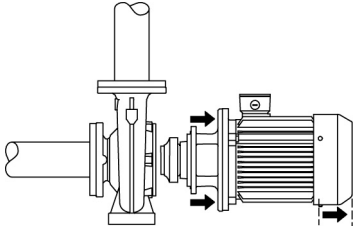
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<https://www.lenntech.com/grundfos/NB000/96124944/NB-32-125-1-139-A-F2-A-E-BAQE.html>

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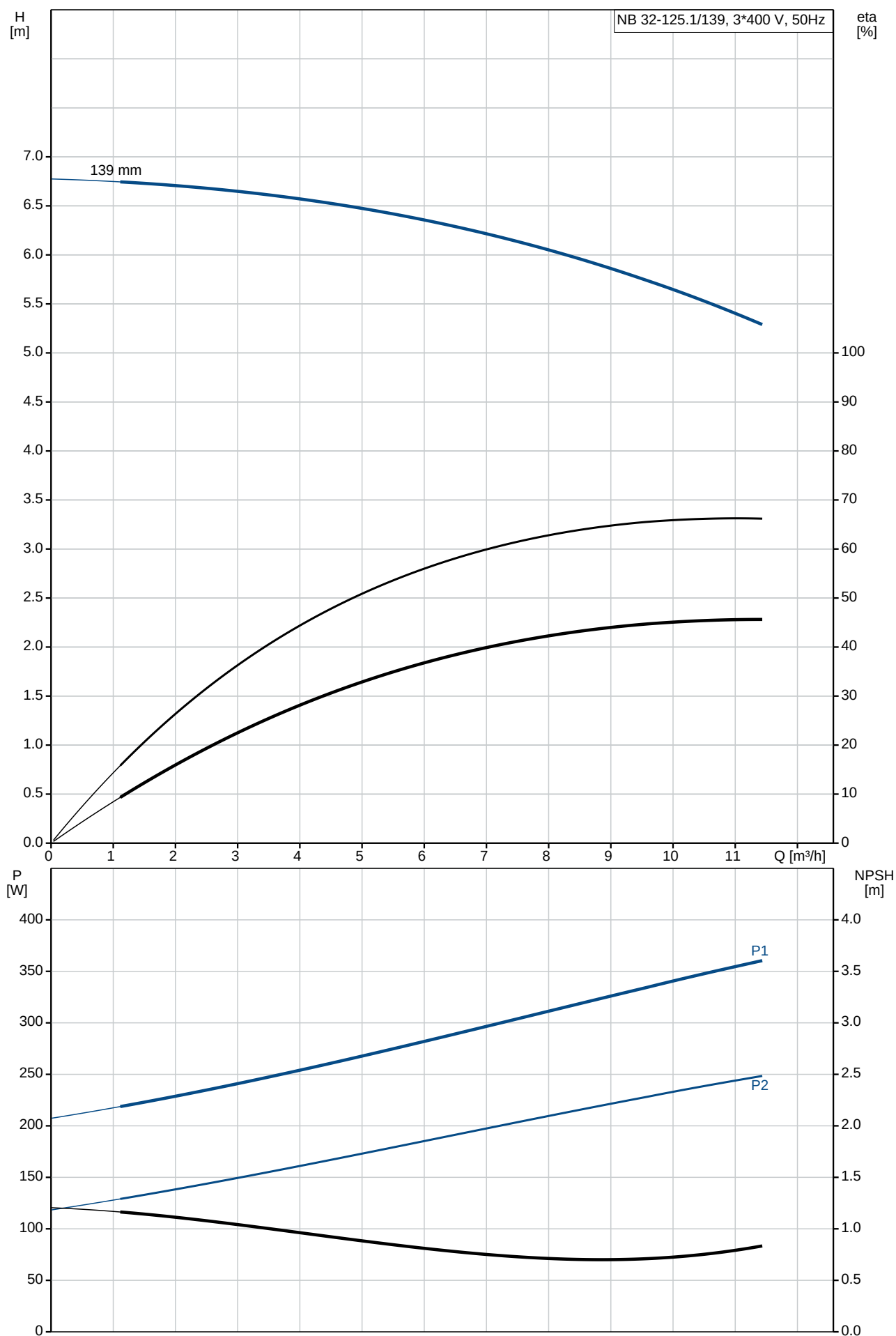
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Position	Qty.	Description
	1	NB 32-125.1/139 A-F2-A-E-BAQE  Product No.: On request Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar). Flanges are 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/I₁). 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: 10.9 m³/h Rated head: 5.2 m Actual impeller diameter: 139 mm Impeller nom: 125.1 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: 40 kg Shipping volume: 0.134 m³

On request NB 32-125.1/139 A-F2-A-E-BAQE 50 Hz



Description	Value		
General information:			
Product name:	NB 32-125.1/139 A-F2-A-E-BAQE		
Product No:	On request		
EAN number:	On request		
Technical:			
Rated flow:	10.9 m³/h		
Rated head:	5.2 m		
Actual impeller diameter:	139 mm		
Impeller nom:	125.1 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		
Pump inlet:	DN 50		
Pump outlet:	DN 32		
Pressure rating:	PN 16		
Wear ring(s):	neckring(s)		
Connect code:	F2		
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		
Lubricant type:	Grease		

Performance Graphs:

Head vs. Flow (H [m] vs. Q [m³/h]):

Curves for 139 mm and 125.1 mm impeller diameters. The 139 mm curve shows a head of approximately 6.5 m at 0 flow, decreasing to about 5.2 m at 10 m³/h. The 125.1 mm curve shows a head of approximately 3.5 m at 0 flow, decreasing to about 2.5 m at 10 m³/h.

Power vs. Flow (P [W] vs. Q [m³/h]):

Curves for P1 and P2. P1 shows a power of approximately 200 W at 0 flow, increasing to about 350 W at 10 m³/h. P2 shows a power of approximately 100 W at 0 flow, increasing to about 250 W at 10 m³/h.

Dimensions and Mounting:

Top view: 200 mm (total width), 193 mm (motor width), 100 mm (flange width), 80 mm (flange diameter), 50 mm (flange thickness), 100 mm (flange diameter), 100 mm (flange diameter), 100 mm (flange diameter).

Side view: 140 mm (total height), 132 mm (motor height), 112 mm (flange height), 117 mm (flange diameter), 117 mm (flange diameter).

Bottom view: 140 mm (total width), 132 mm (motor width), 112 mm (flange width), 117 mm (flange diameter), 117 mm (flange diameter).

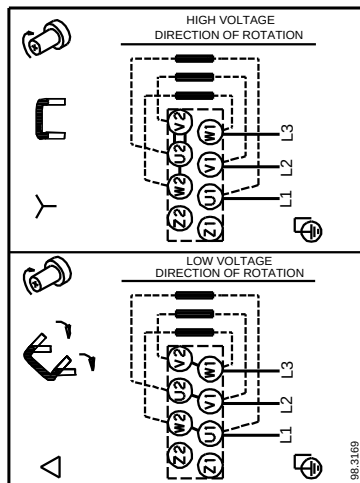
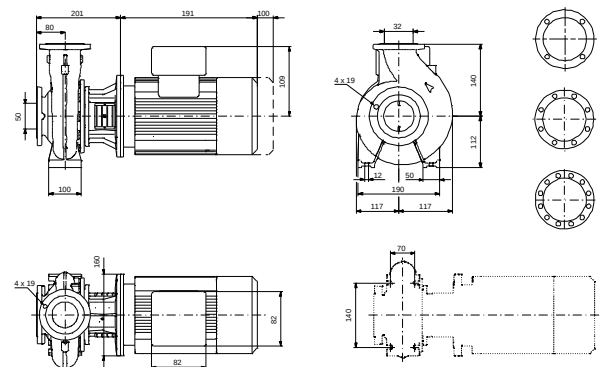
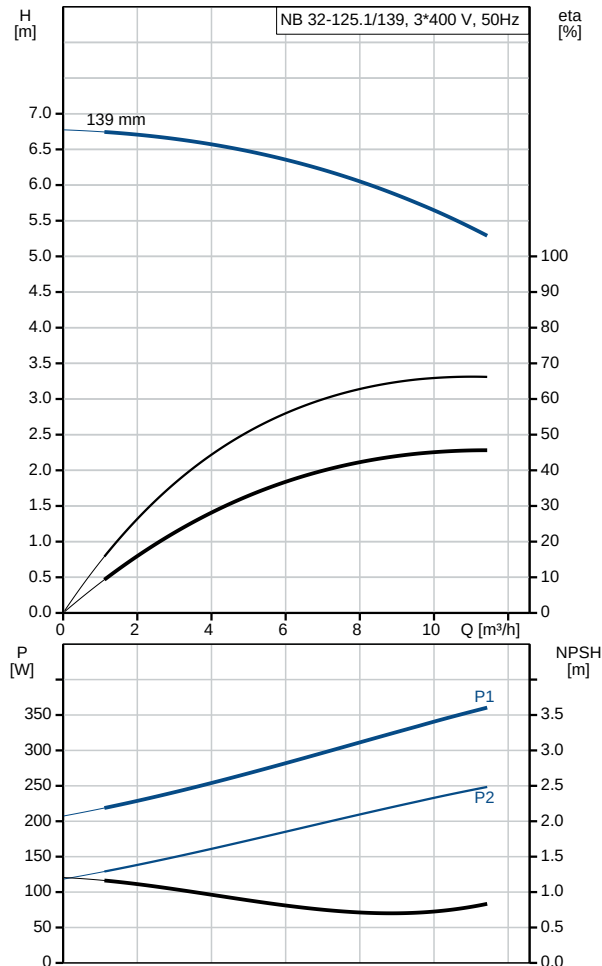
Wiring Diagrams:

HIGH VOLTAGE DIRECTION OF ROTATION:

Wiring diagram showing connections for high voltage (L1, L2, L3) and motor 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).

LOW VOLTAGE DIRECTION OF ROTATION:

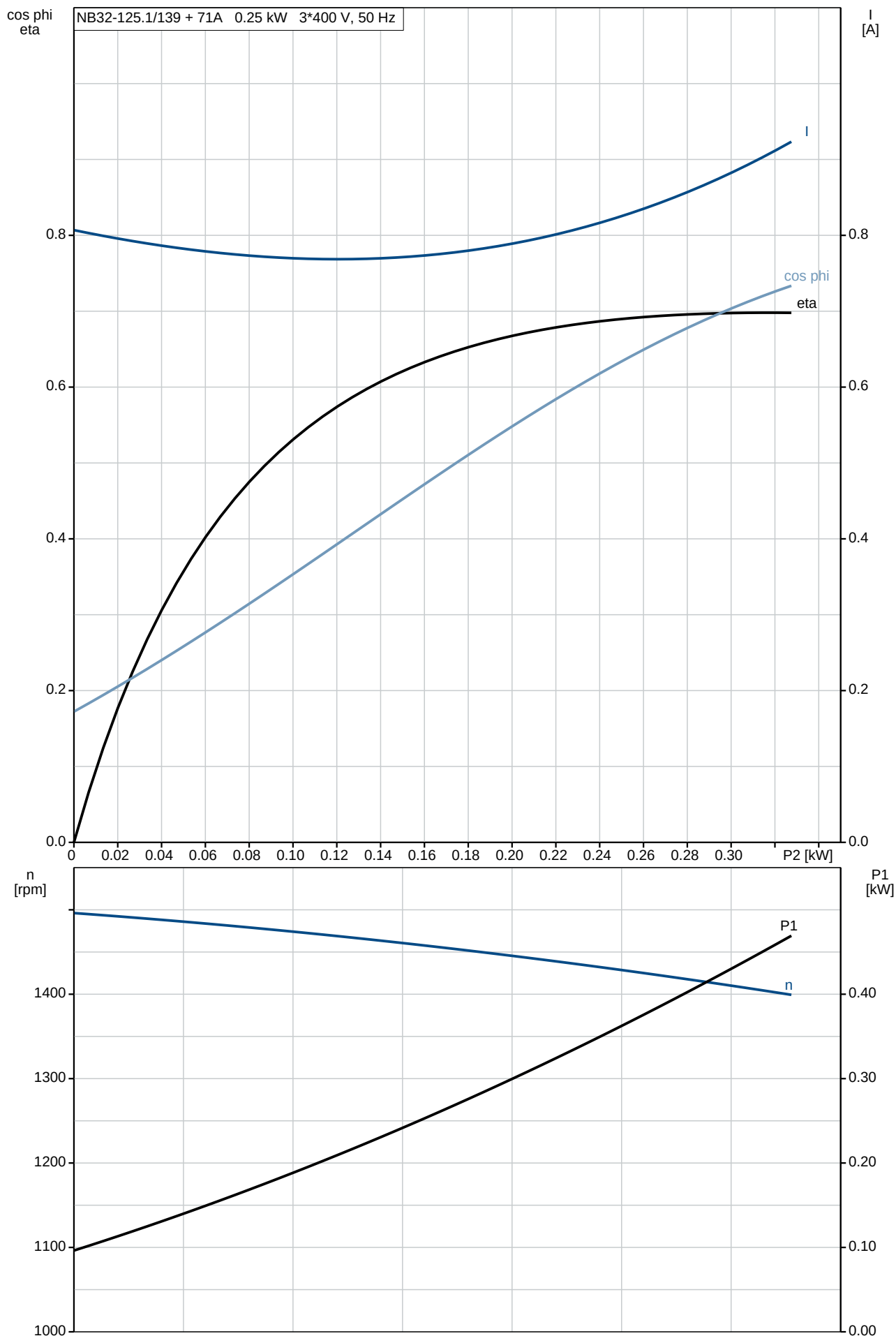
Wiring diagram showing connections for low voltage (L1, L2, L3) and motor terminals (Z1, Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9, Z10, Z11, Z12, Z13, Z14, Z15, Z16, Z17, Z18, Z19, Z20, Z21, Z22, Z23, Z24, Z25, Z26, Z27, Z28, Z29, Z30, Z31, Z32, Z33, Z34, Z35, Z36, Z37, Z38, Z39, Z40, Z41, Z42, Z43, Z44, Z45, 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).



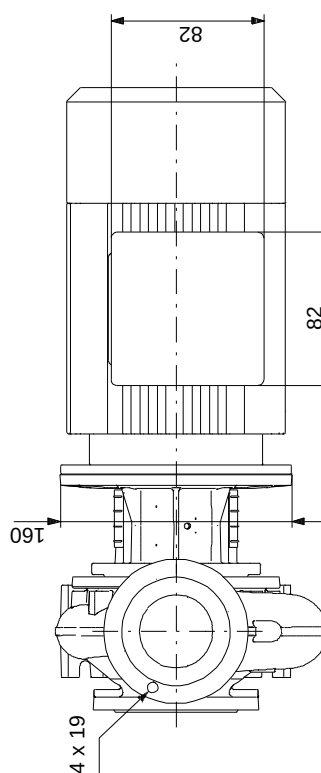
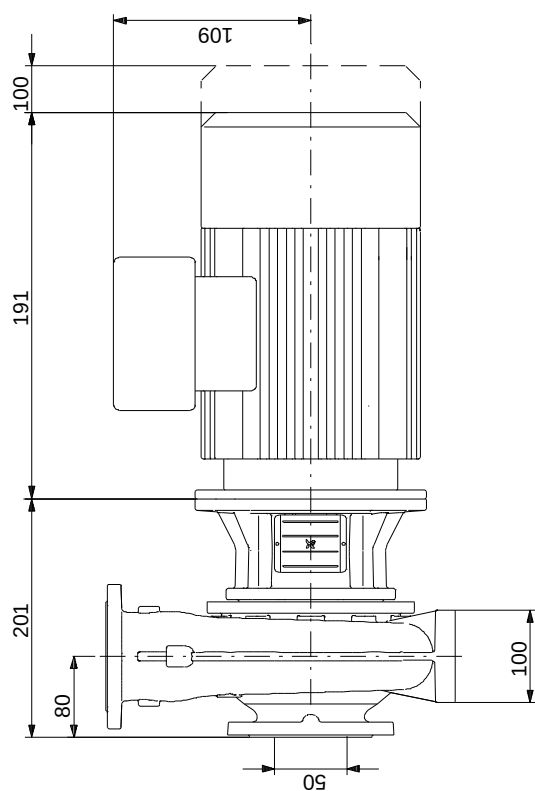
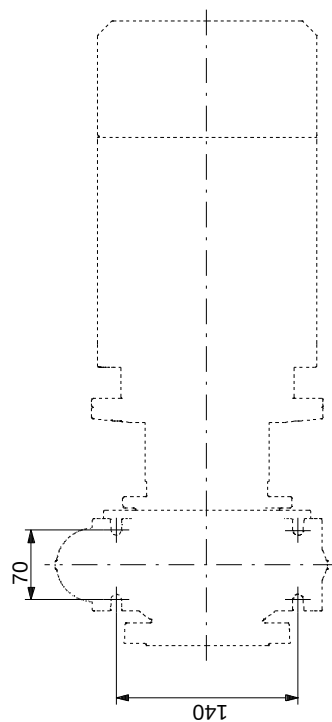
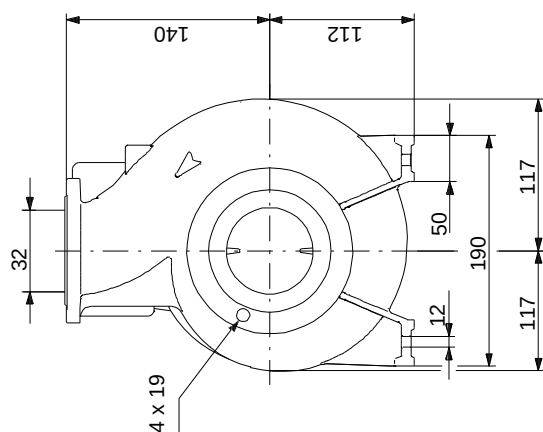
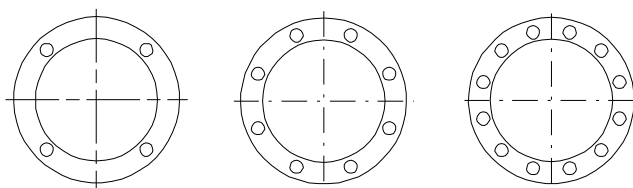
Description	Value
Others:	
Minimum efficiency index, MEI ≥:	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	30 kg
Gross weight:	40 kg
Shipping volume:	0.134 m³

On request NB 32-125.1/139 A-F2-A-E-BAQE 50 Hz

NB32-125.1/139 + 71A 0.25 kW 3*400 V, 50 Hz

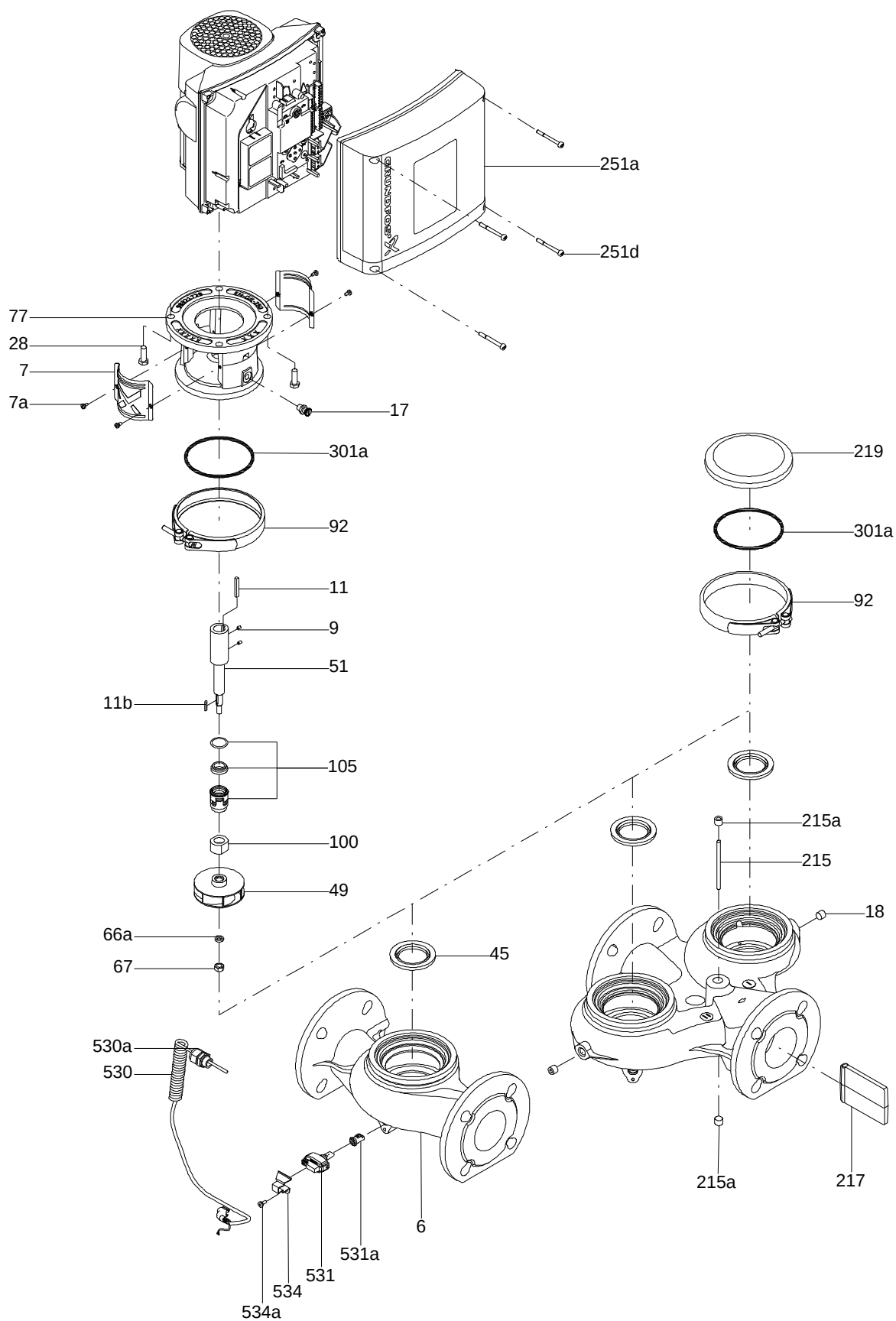


On request NB 32-125.1/139 A-F2-A-E-BAQE 50 Hz

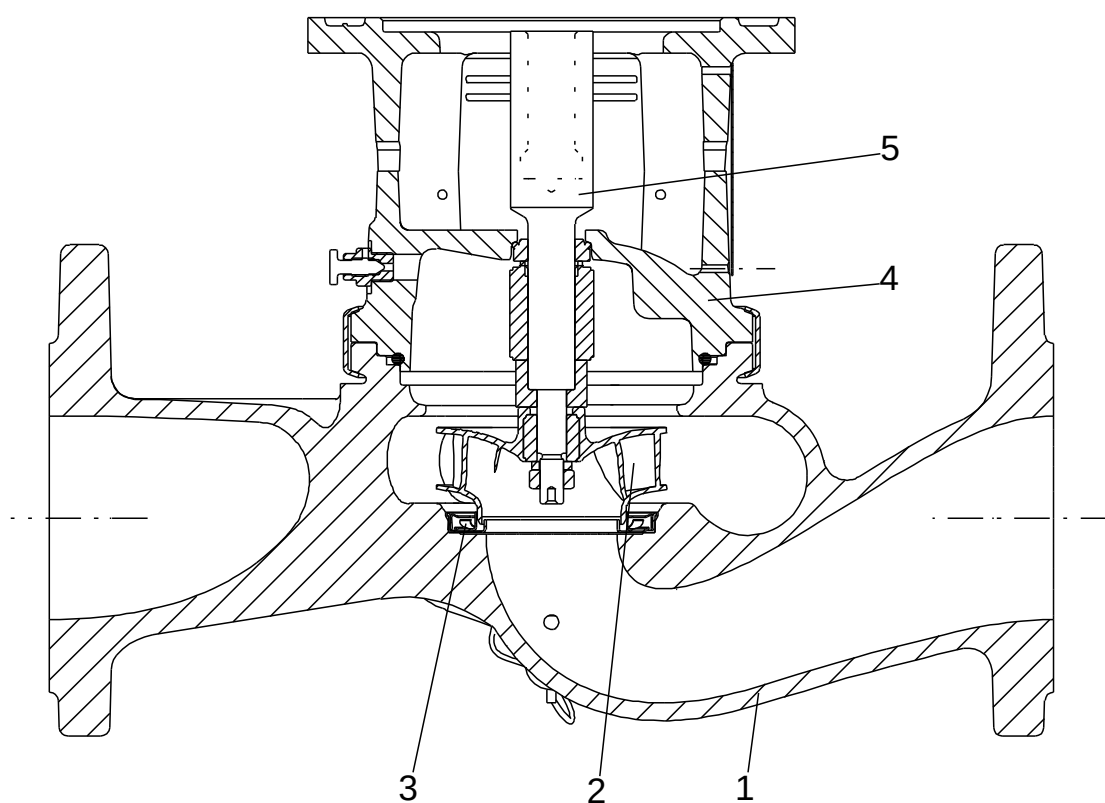


Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Exploded view

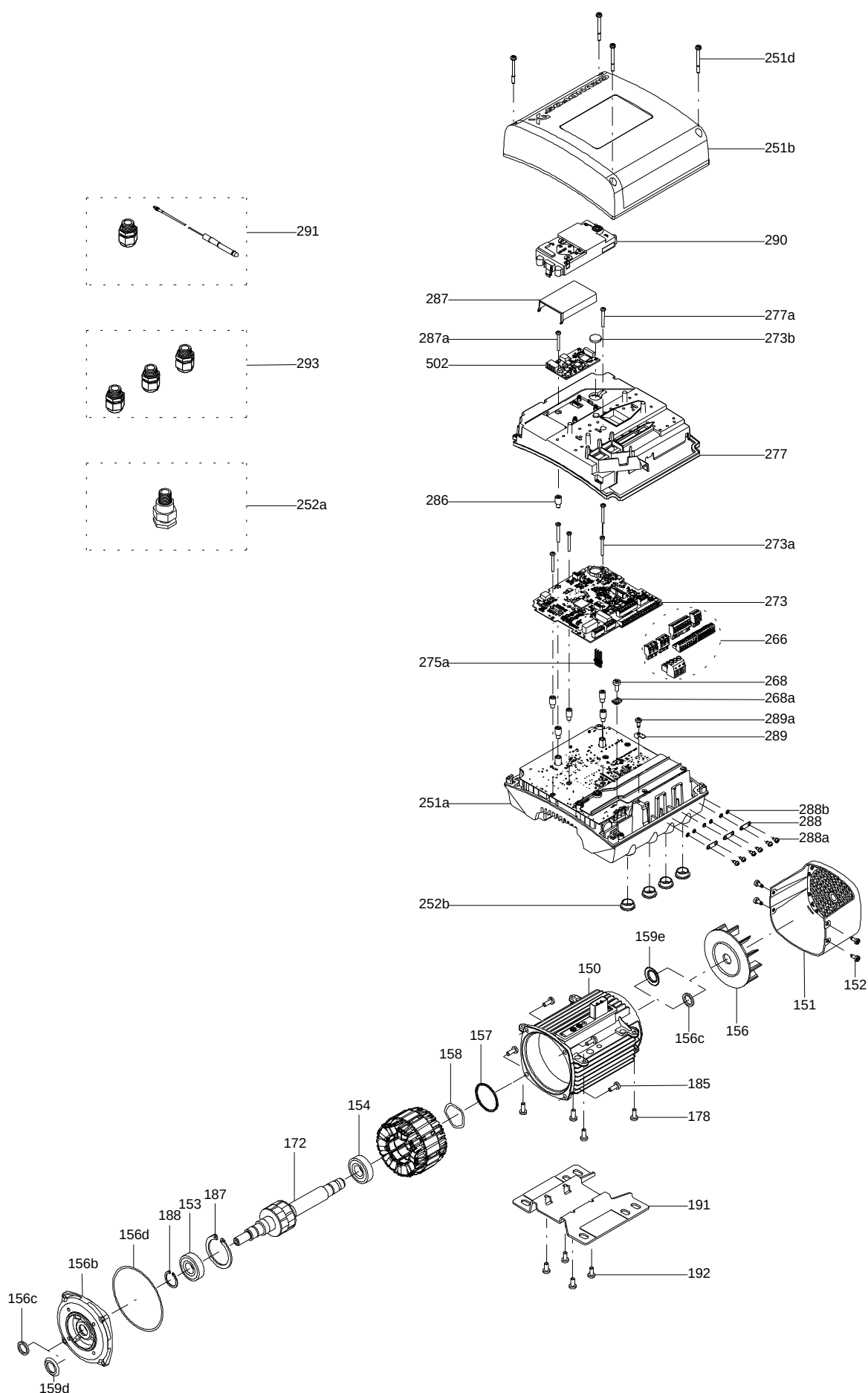


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list NB 32-125.1/139, Product No. On request
Valid from 1.1.2004 (0401)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
+	Motor				1	pcs
-	Nut				1	pcs
66	Washer				1	
66a	Spring lock washer				1	
67	Nut		Thread: M14		1	
-	Motor stool cpl.				1	pcs
1a	Motor stool				1	
9	Hex socket head cap screw		Length (mm): 35		4	
			Thread: M8			
-	Pump housing cpl.				1	pcs
6	Pump housing				1	
36	Nut		Thread: M10		6	
-	Stub shaft				1	pcs
9	Socket set screw		Length (mm): 10		2	
			Thread: M5			
11	Parallel key		Dimension: 6X6X35		1	
51	Pump shaft				1	
17	Air vent screw				1	pcs
-	Plug				1	pcs
19	Pipe plug		Thread: R 3/8		2	
49	Impeller				1	pcs
72a	O-ring		Diameter: 177,39		1	pcs
			Material type: EPDM			
			Thickness: 3,53			
105	Shaft seal		Material type: BAQE		1	pcs

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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