

NB150-250/262 EUP A-F1-A-BAQE

Grundfos pump 98777318



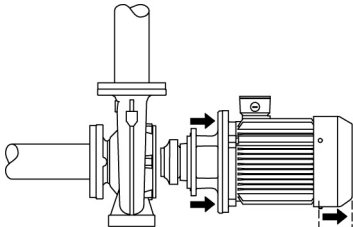
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info@lenntech.com

tel. +31 152 610 900

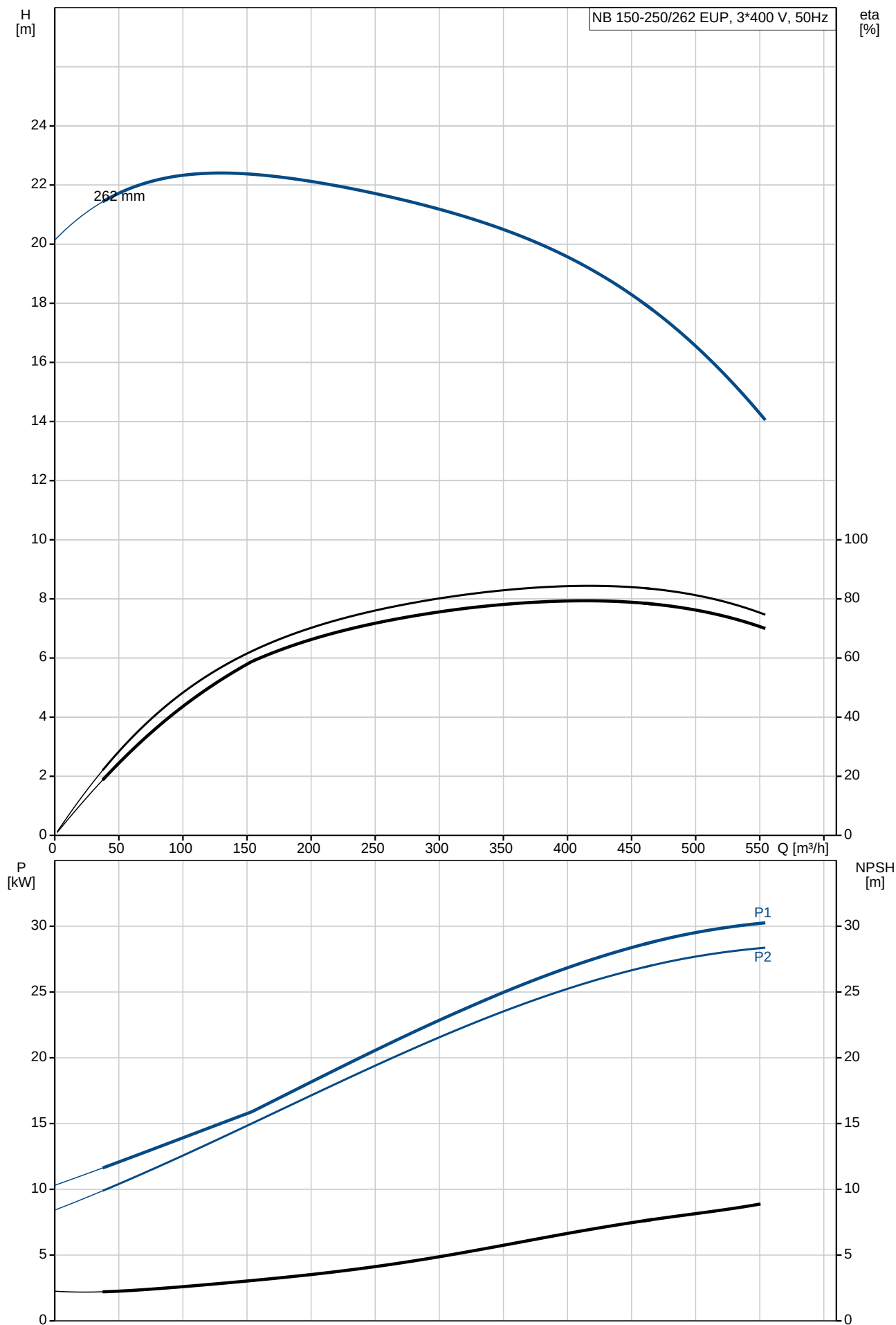
fax. +31 152 616 289

Position	Qty.	Description
	1	NB 150-250/262 EUP A-F1-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 10 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 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. Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

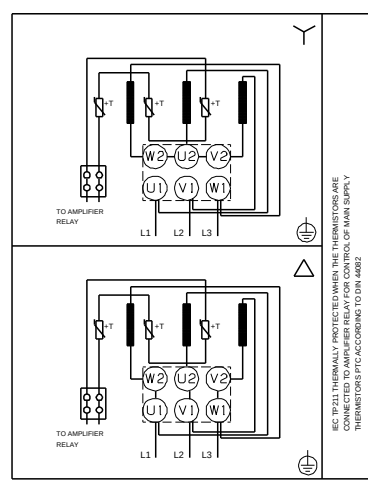
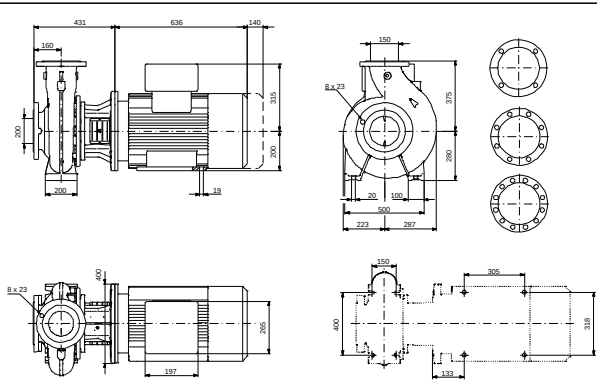
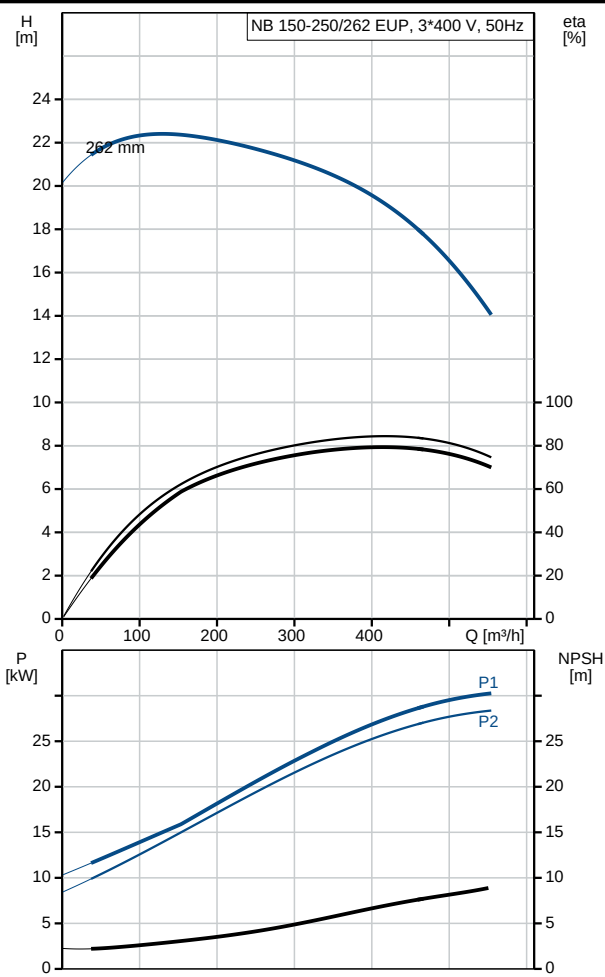
Position	Qty.	Description
		Motor The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034. The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1. The motor has thermistors (PTC sensors) in 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: Rated flow: 417 m³/h Rated head: 19 m Actual impeller diameter: 262 EUP mm Impeller nom: 250 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: 55 °C Maximum operating pressure: 10 bar Flange standard: EN 1092-2 Pump inlet: DN 200 Pump outlet: DN 150 Pressure rating: PN 10 Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 30 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 57,5-54,0/33,5-31,5 A Starting current: 690-690 % Cos phi - power factor: 0.8 Rated speed: 1470 rpm

Position	Qty.	Description
		Efficiency: IE3 93,6% Motor efficiency at full load: 93.6-93.6 % Motor efficiency at 3/4 load: 94.3-94.3 % Motor efficiency at 1/2 load: 94.4-94.4 % 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 ≥: 0.68 ErP status: EuP Standalone/Prod. Net weight: 407 kg Gross weight: 439 kg Shipping volume: 0.951 m³

On request NB 150-250/262 EUP A-F1-A-E-BAQE 50 Hz

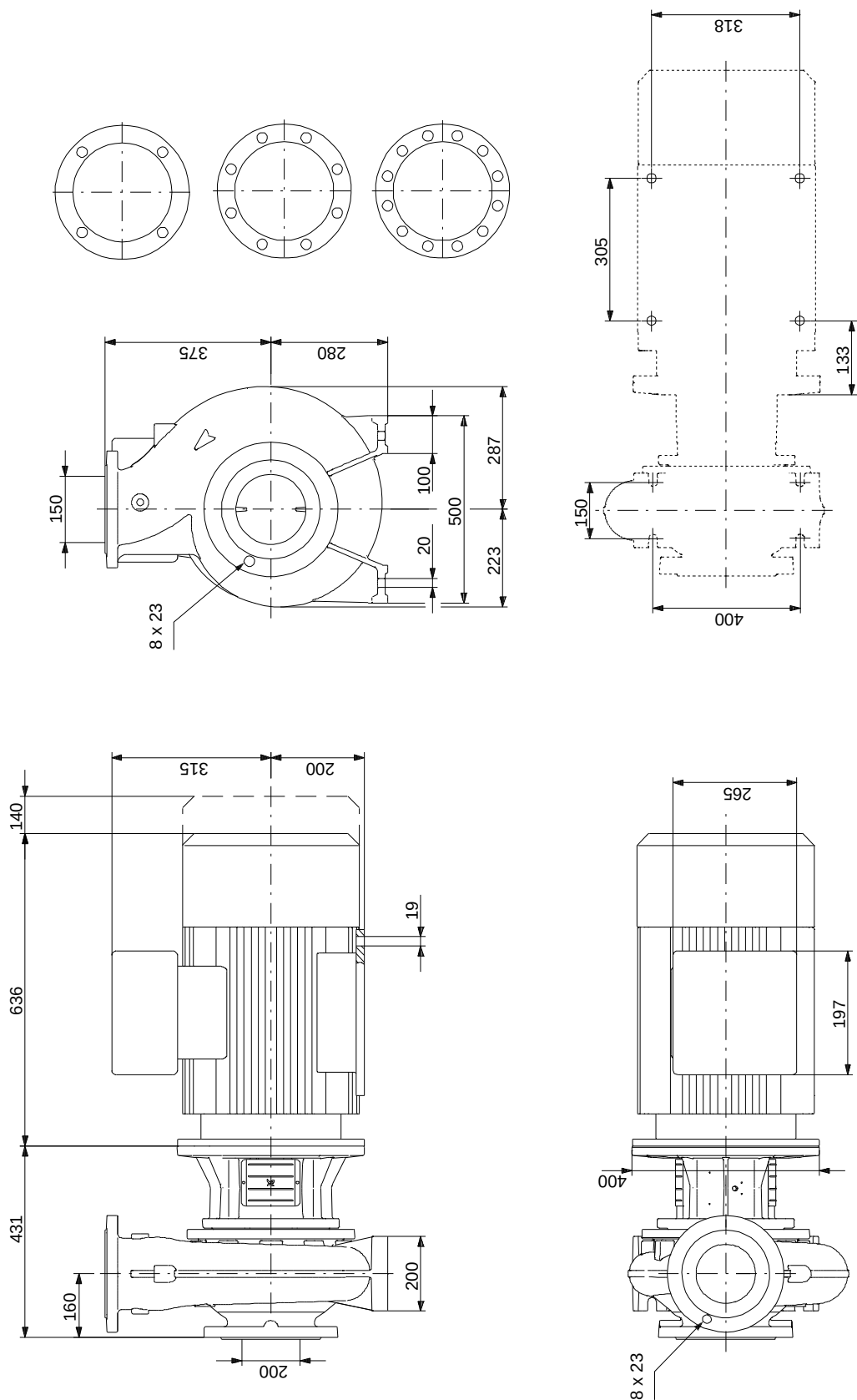


Description	Value	NB 150-250/262 EUP, 3*400 V, 50Hz		eta [%]
General information:				
Product name:	NB 150-250/262 EUP			
Product No:	A-F1-A-E-BAQE			
EAN number:	On request			
Technical:				
Rated flow:	417 m³/h			
Rated head:	19 m			
Actual impeller diameter:	262 EUP mm			
Impeller nom:	250 mm			
Primary shaft seal:	BAQE			
Secondary shaft seal:	NONE			
Shaft diameter:	42 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:	55 °C			
Maximum operating pressure:	10 bar			
Flange standard:	EN 1092-2			
Pump inlet:	DN 200			
Pump outlet:	DN 150			
Pressure rating:	PN 10			
Wear ring(s):	neckring(s)			
Connect code:	F1			
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:	SIEMENS			
IE Efficiency class:	IE3			
Rated power - P2:	30 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-725Y V			
Rated current:	57,5-54,0/33,5-31,5 A			
Starting current:	690-690 %			
Cos phi - power factor:	0.8			
Rated speed:	1470 rpm			
Efficiency:	IE3 93,6%			
Motor efficiency at full load:	93.6-93.6 %			
Motor efficiency at 3/4 load:	94.3-94.3 %			
Motor efficiency at 1/2 load:	94.4-94.4 %			
Number of poles:	4			
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Motor protec:	PTC			
Motor No:	99032198			
Mount. design. acc. IEC 34-7:	IM B35			



Description	Value
Lubricant type:	Grease
Others:	
Minimum efficiency index, MEI ≥:	0.68
ErP status:	EuP Standalone/Prod.
Net weight:	407 kg
Gross weight:	439 kg
Shipping volume:	0.951 m ³

On request NB 150-250/262 EUP A-F1-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 150-250/262 EUP, Product No. On request
Valid from 1.3.2010 (1009)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
-	Nut				1	pcs
66	Washer				1	
66a	Spring lock washer				1	
67	Nut		Thread: M25		1	
-	Motor stool cpl.				1	pcs
1.a	Motor stool				1	
7	Coupling guard				2	
77a	Pan head screw				4	
-	Pump housing cpl.				1	pcs
6	Pump housing				1	
66a	Nut		Thread: M12		10	
-	Shaft cpl.				1	pcs
9	Socket set screw		Length (mm): 6		2	
			Thread: M8			
11	Key				1	
51	Stub shaft				1	
17	Air vent screw				1	pcs
-	20 Plug				1	pcs
20	Plug				2	
49	Impeller				1	pcs
72.a	O-ring		Diameter: 278,99		1	pcs
			Material type: EPDM			
			Thickness: 3,53			
-	77 Cover				1	pcs
77	Cover				1	
105	Shaft seal		Material type: BAQE 48 MM SHAFT		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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info@lenntech.com

<https://www.lenntech.com>

tel. +31 152 610 900

fax. +31 152 616 289