

NK125-250/269A1F2AE-SGQQE

Grundfos pump 98323142



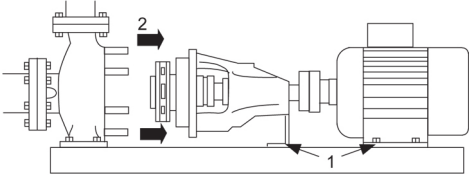
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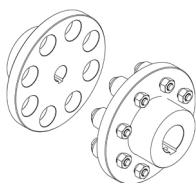
<https://www.lenntech.com/grundfos/NKBASIS/98323142/NK-125-250-269-A1-F-A-E-GQQE.html>

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Position	Qty.	Description
	1	NK 125-250/269 A1-F-A-E-GQQE  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 motor, coupling, bearing bracket and impeller without disturbing the pump housing or pipework. The unbalanced rubber bellows shaft seal with reduced seal face 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 makes it possible to make service on the pump when the pump housing is still connected to the inlet and discharge pipes. 1) Remove the bolts in the bearing bracket support foot and motor foot. 2) Remove the bearing bracket and the motor 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 shaft seal is an unbalanced rubber bellows seal with reduced seal face. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft. The narrow seal face makes the seal perform well in high-viscosity and anti-freezing liquids. Primary seal: • Rotating seal ring material: silicon carbide (SiC) • Stationary seat material: silicon carbide (SiC) This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles. 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 32 mm where the coupling is mounted. The pump uses a standard 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 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:	-25 .. 60 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m ³

Technical:

Rated flow:	202 m ³ /h
Rated head:	9.3 m
Actual impeller diameter:	269 mm
Impeller nom:	250 mm
Primary shaft seal:	GQQE
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.:	Bronze (CuSn10)

Installation:

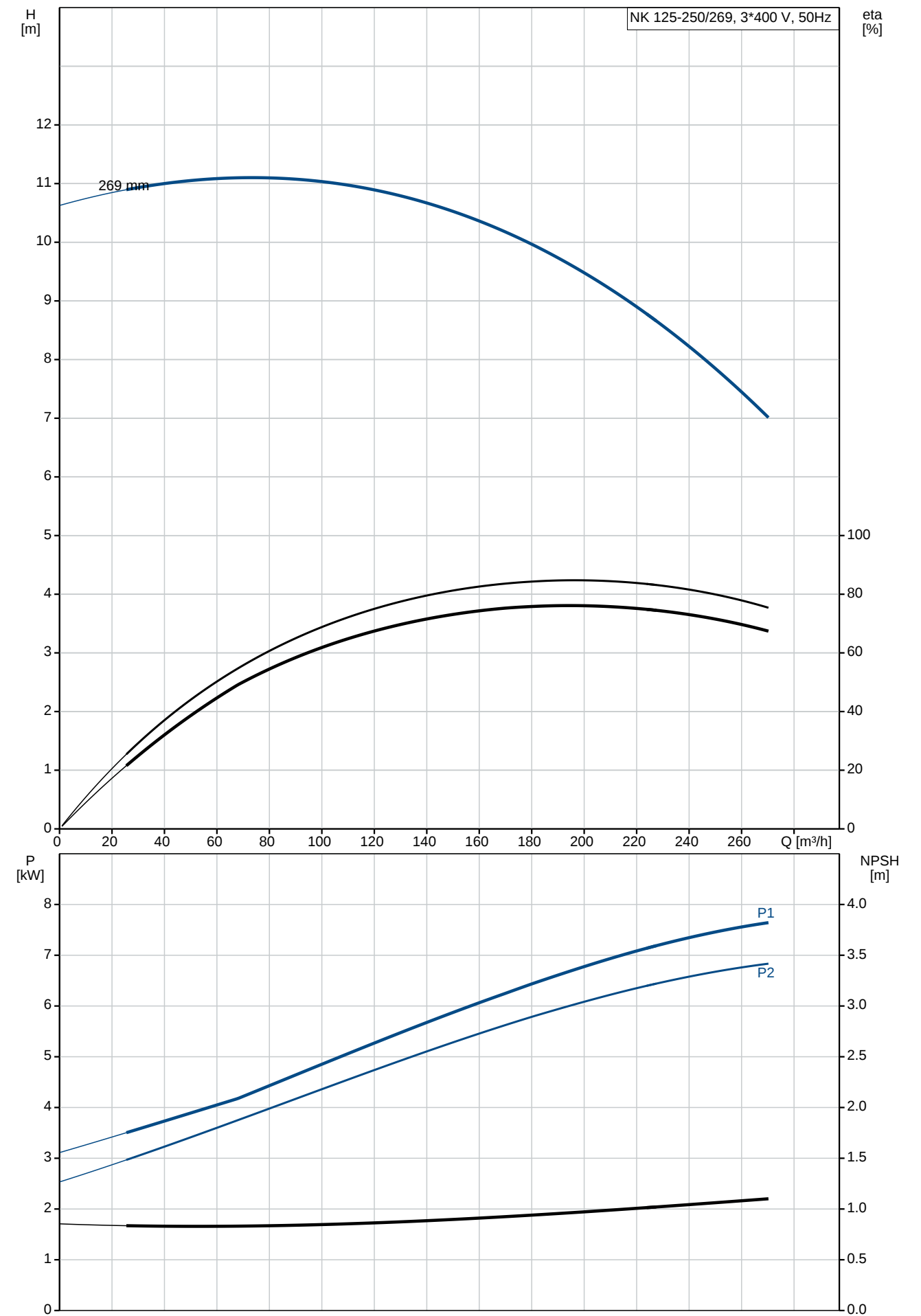
Maximum ambient temperature:	55 °C
Maximum operating pressure:	16 bar
Flange standard:	EN 1092-2
Pump inlet:	DN 150
Pump outlet:	DN 125
Pressure rating:	PN 16
Coupling type:	Standard
Base frame:	EN / ISO

Electrical data:

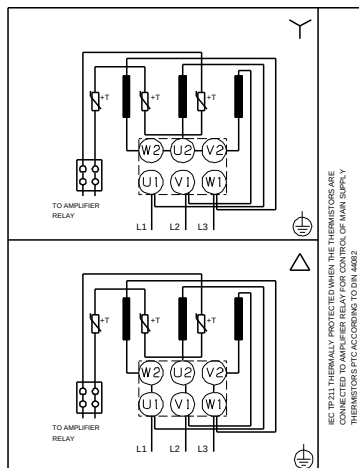
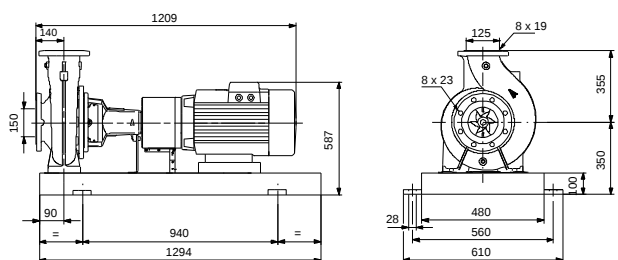
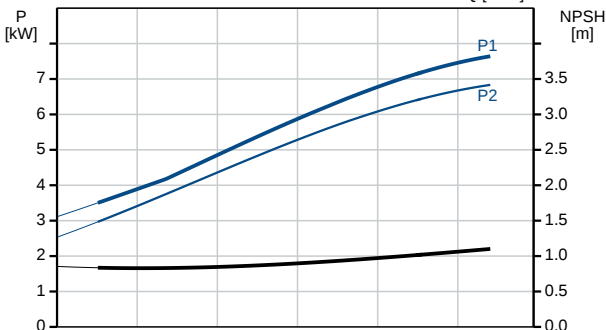
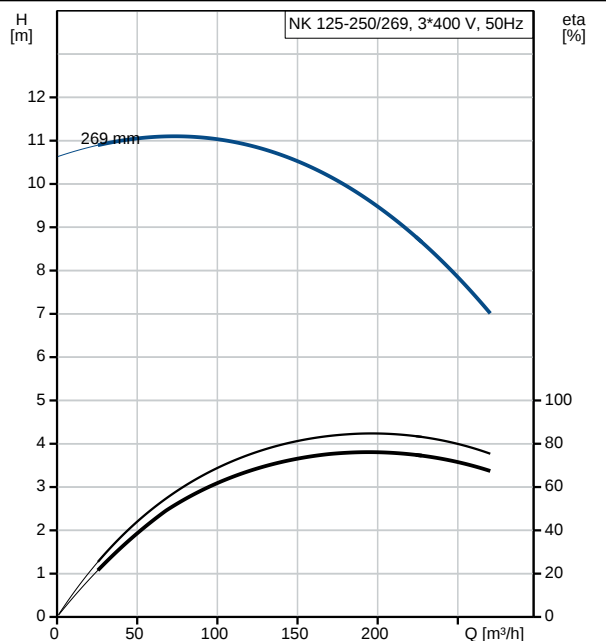
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	7.5 kW
Mains frequency:	50 Hz

Position	Qty.	Description
		Rated voltage: 3 x 380-420D/660-725Y V Rated current: 16,0-14,6/9,20-8,40 A Starting current: 630-630 % Cos phi - power factor: 0.80 Rated speed: 975 rpm Efficiency: IE3 89,1% Motor efficiency at full load: 89.1-89.1 % Motor efficiency at 3/4 load: 90.0-90.0 % Motor efficiency at 1/2 load: 89.8-89.8 % Number of poles: 6 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Lubricant type: Grease Others: Minimum efficiency index, MEI $\geq$: 0.68 ErP status: EuP Standalone/Prod. Net weight: 361 kg Gross weight: 388 kg Shipping volume: 1.11 m³

On request NK 125-250/269 A1-F-A-E-GQQE 50 Hz

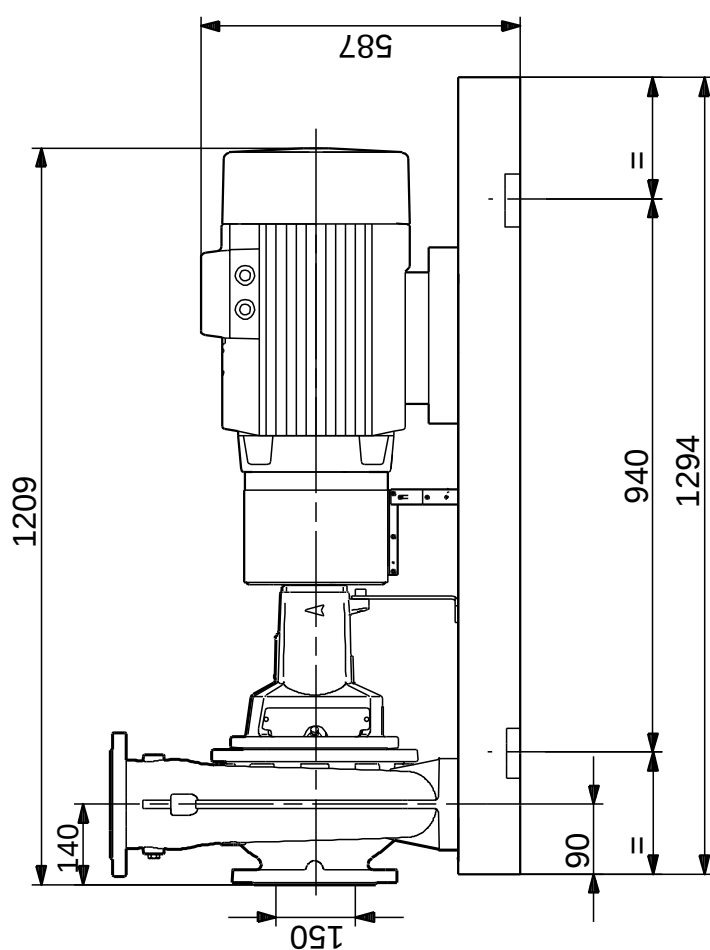
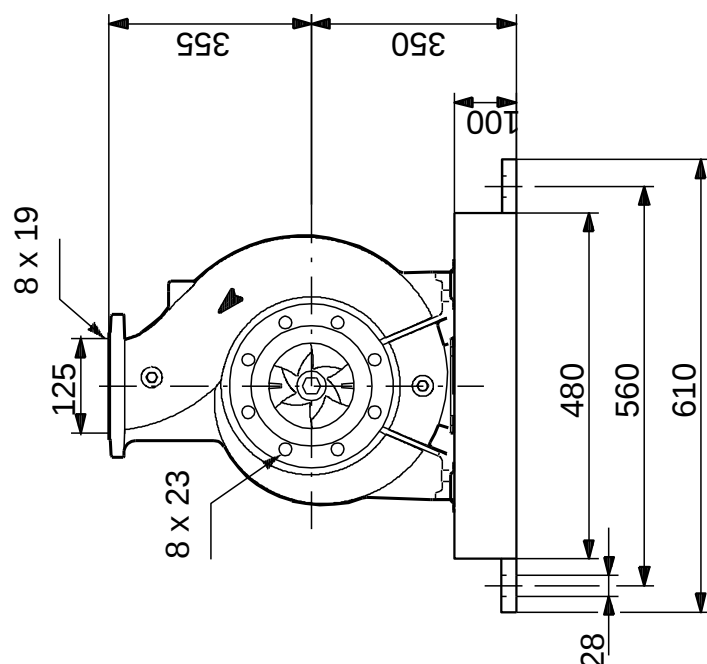


Description	Value
General information:	
Product name:	NK 125-250/269
Product No:	A1-F-A-E-GQQE
EAN number:	On request
Technical:	
Rated flow:	202 m³/h
Rated head:	9.3 m
Actual impeller diameter:	269 mm
Impeller nom:	250 mm
Primary shaft seal:	GQQE
Secondary shaft seal:	NONE
Shaft diameter:	32 mm
Curve tolerance:	ISO9906:2012 3B
Pump version:	A1
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.:	Bronze (CuSn10)
Installation:	
Maximum ambient temperature:	55 °C
Maximum operating pressure:	16 bar
Flange standard:	EN 1092-2
Pump inlet:	DN 150
Pump outlet:	DN 125
Pressure rating:	PN 16
Coupling type:	Standard
Wear ring(s):	neckring(s)
Base frame:	EN / ISO
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 60 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	7.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	16,0-14,6/9,20-8,40 A
Starting current:	630-630 %
Cos phi - power factor:	0.80
Rated speed:	975 rpm
Efficiency:	IE3 89,1%
Motor efficiency at full load:	89.1-89.1 %
Motor efficiency at 3/4 load:	90.0-90.0 %
Motor efficiency at 1/2 load:	89.8-89.8 %
Number of poles:	6
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	98957458
Lubricant type:	Grease
Others:	
Minimum efficiency index, MEI ≥:	0.68



Description	Value
ErP status:	EuP Standalone/Prod.
Net weight:	361 kg
Gross weight:	388 kg
Shipping volume:	1.11 m ³

On request NK 125-250/269 A1-F-A-E-GQQE 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 125-250/269, Product No. On request
Valid from 1.3.2010 (1009)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
+	Motor				1	pcs
-	Coupling cpl.				1	pcs
-	Bolt				8	
-	Bolt				1	
89d	Bolt					
89e	Nut					
89f	Washer		Internal diameter: 14,5			
			Outer diameter: 25			
89g	Spring lock washer					
89q	Washer		Internal diameter: 16,5			
			Outer diameter: 25,0			
89	Rubber blocks for coupling				1	
89.p	Coupling female				1	
89a	Socket set screw				2	
89b	Socket set screw				2	
89o	Connector				1	
-	Nut				1	pcs
66	Washer		Designation: DIN 125 A2		1	
			Internal diameter: 19			
			Outer diameter: 34			
			Thickness: 3			
66a	Spring lock washer				1	
67	Nut		Thread: M18		1	
-	Cover cpl.				1	pcs
36	Nut		Thread: M10		8	
77	Cover				1	
-	Pump housing cpl.				1	pcs
6	Pump housing				1	
66a	Nut		Thread: M12		10	
- 7	Coupling guard cpl.				1	pcs
- 7	Coupling guard cpl.				1	
7c	Spacer f/coupling guard				1	
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	
7h	Hex socket head cap screw				2	
7l	Support f/coupling guard foot				1	
66	Washer				2	
49	Impeller				1	pcs
53.b	Spacer ring				1	pcs
72.a	O-ring		Diameter: 278,99		1	pcs
			Material type: EPDM			
			Thickness: 3,53			
- 86	Bearing bracket				1	pcs
28a	Hex head screw		Length (mm): 25		1	
			Thread: M12			
53.b	Spacer ring				1	
54	Ball bearing				2	
54a	O-ring		Diameter: 89,5		2	
			Material type: EPDM			
			Thickness: 3			
77a	Pan head screw				4	
86	Bearing bracket				1	
153a	Retaining ring				2	
156a	Bearing cover				2	

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
159a	V-ring				2	
- 90	Base plate				1	pcs
	Washer				16	
	Washer				4	
	Base plate				1	
	Support rail				2	
	Support block				2	
	Support block				2	
7h	Hex head screw		Length (mm): 16		2	
			Thread: M8			
9	Hex head screw		Length (mm): 60		4	
			Thread: M12			
28	Hex head screw		Length (mm): 30		2	
			Thread: M12			
28	Hex head screw				4	
66	Washer				2	
66	Washer				2	
66a	Nut		Thread: M12		4	
105	Shaft seal		Material type: GQQE		1	pcs
105b	Spacer				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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