

CRI1-3 A-P-I-E-HQQE 1x220/240 50HZ

Grundfos pump 96532752



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https://www.lenntech.com/grundfos/CRI01/96532752/CRI-1-3-A-P-I-E-HQQE.html

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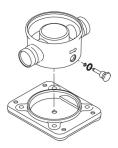
Position	Qty.	Description
	1	CRI 1-3 A-P-A-E-HQQE
		Product No.: On request
		Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via PJE (Victaulic®) couplings.
		The pump is fitted with a 1-phase, fan-cooled asynchronous motor.
		Further product details
		Steel, cast iron and aluminium components 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 A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.
		The pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). The pump head has a combined 1/2" priming plug and vent screw.
		The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.
		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.
	1	1 Tos Product Centre [2018.06.003] 1/



The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The pump has a stainless-steel base mounted on a separate base plate. The base and base plate are kept in position by the tension of the staybolts which hold the pump together. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate. The base is prepared for connection by means of PJE (Victualic®) couplings.



Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with tapped-hole flange (FT).

Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II). Electrical tolerances comply with IEC 60034.

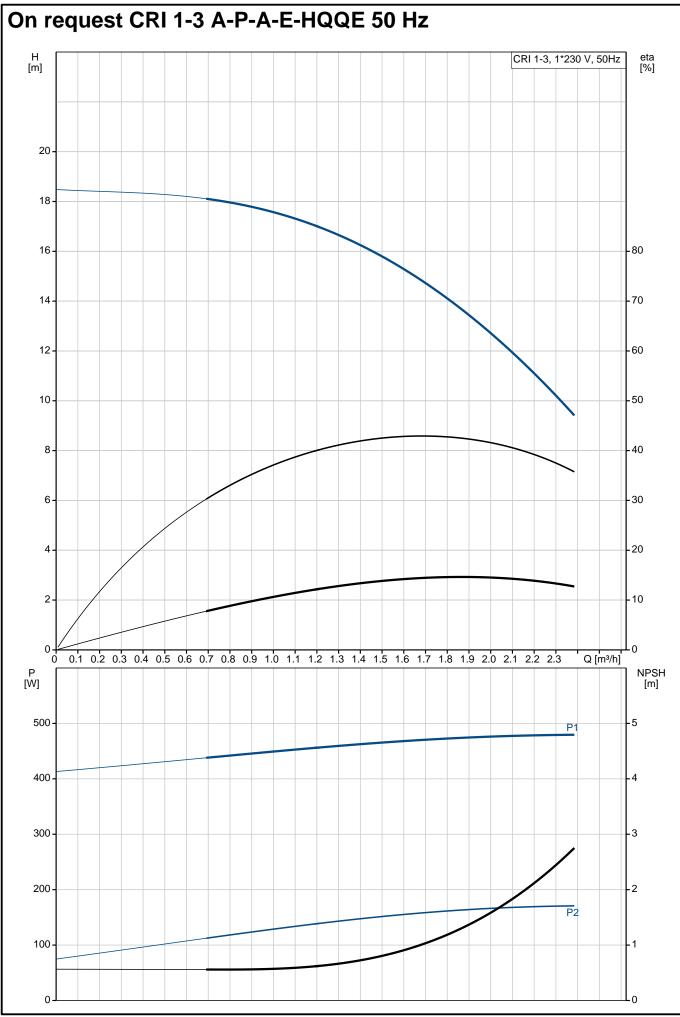
The motor has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.

Technical data

Controls: Frequency converter:	NONE
Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during opera Density:	Water -20 120 °C tion: 20 °C 998.2 kg/m ³
Technical: Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance:	1.8 m³/h 15.4 m Vertical Single HQQE CE, EAC,ACS ISO9906:2012 3B
Materials: Base: Impeller:	Stainless steel EN 1.4408 AISI 316 Stainless steel

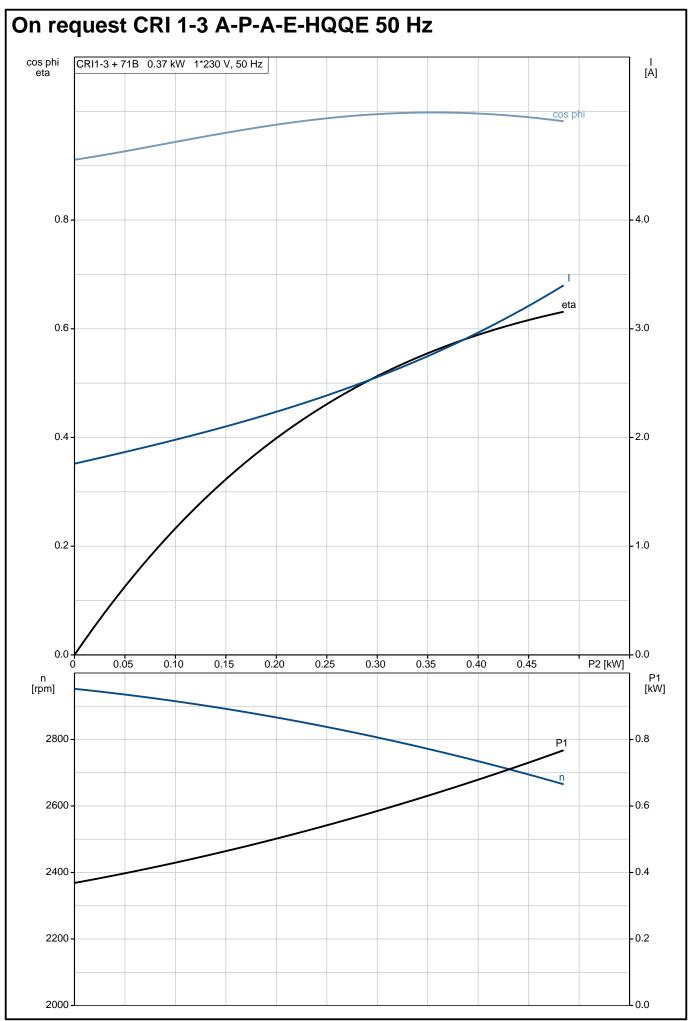
Position	Qty.	Description	
	હાપુ.		EN 4 4204
			EN 1.4301
		Booring	AISI 304 SIC
		Bearing:	
		Installation:	
		Maximum ambient temperature:	40 °C
		Maximum operating pressure:	25 bar
		Max pressure at stated temp:	25 bar / 120 °C
			25 bar / -20 °C
		Type of connection:	PJE
		Size of inlet connection:	DN 32
			1 1/4 inch
		Size of outlet connection:	DN 32
			1 1/4 inch
		Pressure rating for pipe connect	
		Flange size for motor:	FT85
		Electrical data:	
		Motor standard:	IEC
		Motor type:	71B
		Rated power - P2:	0.37 kW
		Power (P2) required by pump:	
		Mains frequency:	50 Hz
		Rated voltage:	1 x 220-230/240 V
		Rated current:	2.95/2.70 A
		Starting current:	280 %
		Cos phi - power factor:	0.99
		Rated speed:	2770 rpm
		Motor efficiency at full load:	60.0-56.0 %
		Number of poles:	2
		Enclosure class (IEC 34-5):	55 Dust/Jetting
		Insulation class (IEC 85):	F
		Others:	
		Minimum efficiency index, MEI	· 07
		Net weight:	17.3 kg
		Gross weight:	19.9 kg
		Shipping volume:	0.054 m ³



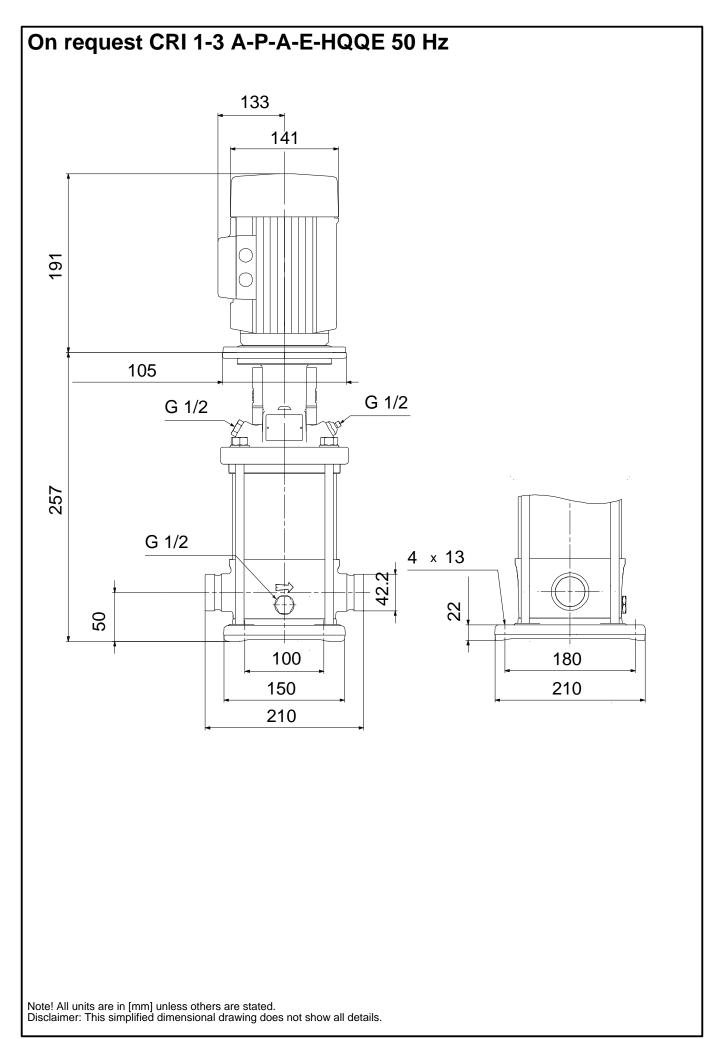
Description	Value	H [m] CRI 1-3, 1*230 V, 50Hz [%]
General information:	Value	
Product name:	CRI 1-3 A-P-A-E-HQQE	
Product No:	On request	20 -
EAN number:		
	On request	18
Technical:		16 - 80
Rated flow:	1.8 m³/h	16 - 80
Rated head:	15.4 m	14 70
Stages:	3	
Impellers:	3	12 - 60
Number of reduced-diameter impellers:	0	
Low NPSH:	Ν	10 - 50
Pump orientation:	Vertical	
Shaft seal arrangement:	Single	8 40
Code for shaft seal:	HQQE	
Approvals on nameplate:	CE, EAC,ACS	6
Curve tolerance:	ISO9906:2012 3B	4 - 20
Pump version:	A	2 10
Model:	A	
Materials:		0
Base:	Stainless steel	0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 Q [m³/h]
	EN 1.4408	P [W] [m]
	AISI 316	500 - P1 - 5
Impeller:	Stainless steel	
	EN 1.4301	400 - 4
	AISI 304	300 - 3
Material code:	A	
Code for rubber:	E	200 - 2
Bearing:	SIC	P2
Installation:		100 - 1
Maximum ambient temperature:	40 °C	
Maximum operating pressure:	25 bar	
Max pressure at stated temp:	25 bar / 120 °C	133
	25 bar / -20 °C	- <u>133</u>
Type of connection:	PJE	
Size of inlet connection:	DN 32	
	1 1/4 inch	- 6 00
Size of outlet connection:	DN 32	
	1 1/4 inch	
Pressure rating for pipe connection:	PN 50	
Flange size for motor:	FT85	<u>G 1/2</u> <u>G 1/2</u>
Connect code:	Р	
Liquid:		
Pumped liquid:	Water	G 1/2
Liquid temperature range:	-20 120 °C	
Liquid temperature during operation:	20 °C	
Density:	998.2 kg/m ³	
Electrical data:	550.2 Ng/III	
		210
Motor standard:	IEC	
Motor type:	71B	LOW VOLTAGE DIRECTION OF ROTATION
Rated power - P2:	0.37 kW	DIRECTION OF ROTATION
Power (P2) required by pump:	0.37 kW	
Mains frequency:	50 Hz	I I I I I I I I I I I I I I I I I I I
Rated voltage:	1 x 220-230/240 V	
Rated current:	2.95/2.70 A	
Starting current:	280 %	
Cos phi - power factor:	0.99	
Rated speed:	2770 rpm	
Motor efficiency at full load:	60.0-56.0 %	HIGH VOLTAGE DIRECTION OF ROTATION
Number of poles:	2	
Enclosure class (IEC 34-5):	55 Dust/Jetting	I I I I I I I I I I I I I I I I I I I
Insulation class (IEC 85):	F	
Motor protec:	РТО	
Motor No:	85215102	
Controls:		

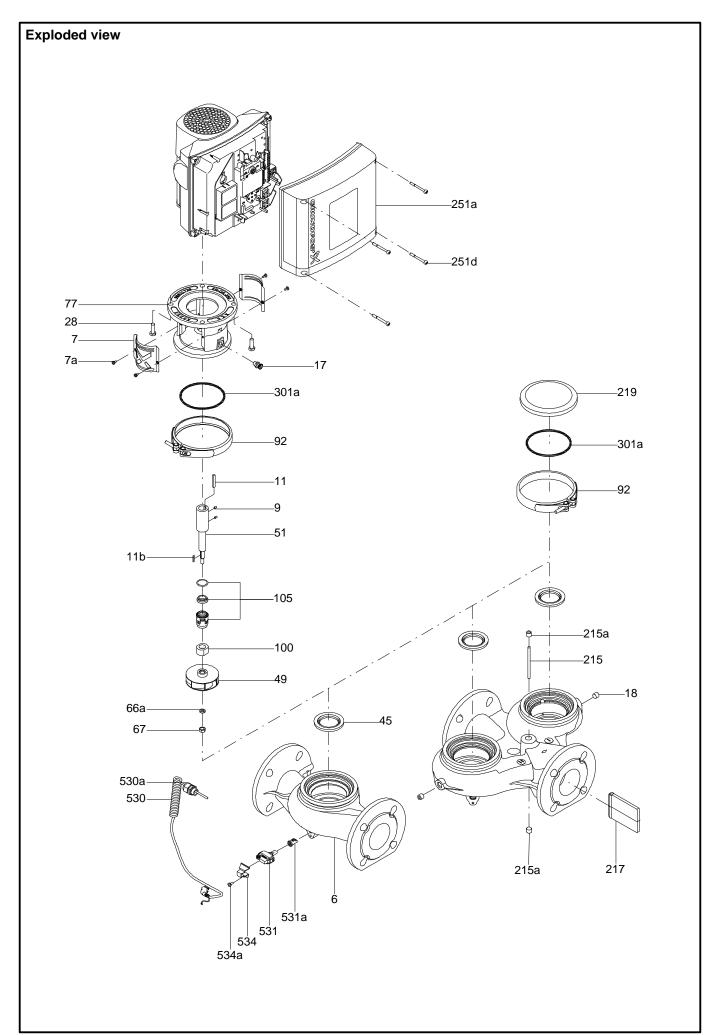
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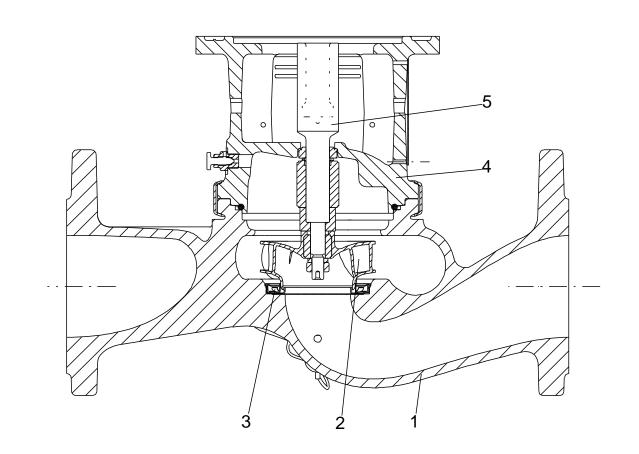
Description	Value	
Frequency converter:	NONE	
Others:		
Minimum efficiency index, MEI :	0.7	
Net weight:	17.3 kg	
Gross weight:	19.9 kg	
Shipping volume:	0.054 m ³	



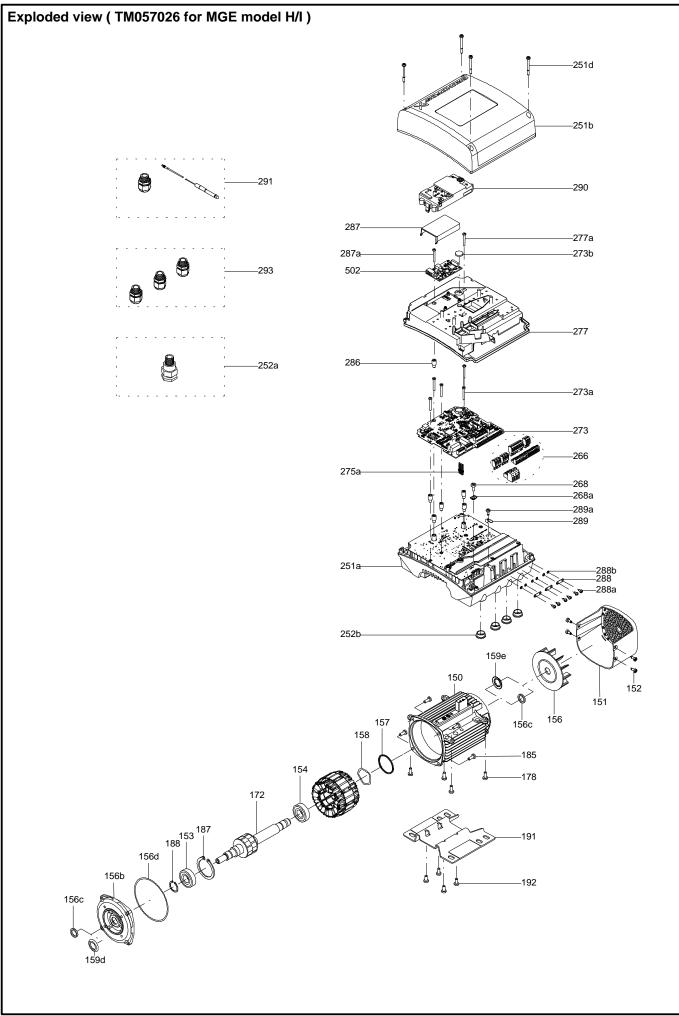
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TM058200



Parts list CRI 1-3, Product No. On request Valid from 1.1.2004 (0401)

Pos	Description Motor	Annotation	Données de classification	Référence	Quanti	
•	Base cpl.				1	pcs pcs
6	Base Base				1	pcs
25	Plug				2	
25 56	-				2	
90	Base plate					
05	Sealing parts				1	pcs
25	Drain plug w/bypass valve		D : (0.0		1	
38	O-ring		Diameter: 16,3			1
			Material type: EPDM			
			Thickness: 2,4			
37	O-ring				2	
100	O-ring		Diameter: 16,3		2	
			Material type: EPDM			
			Thickness: 2,4			
2	Pump head cpl.				1	pcs
2	Pump head				1	
7	Coupling guard				2	
7.a	Combi Slot Torx screw				4	
18	Air vent screw				1	
	Plug					1
	Spindle					1
23a	Plug				1	
28	Hex head screw		Length (mm): 20		4	
			Thread: M6			
60	Formed wire spring				1	
77	Pump cover				1	
8	Coupling				1	pcs
9	Hex socket head cap screw		Designation: DIN 912		4	1
-	· · · · · · · · · · · · · · · · · · ·		Length (mm): 20			
			Thread: M6			
10	Shaft pin		Diameter: 5		1	
10	Shart pin		Length (mm): 26		•	
10a	Coupling half		Longin (mm). 20		2	
26	Staybolt		Length (mm): 151		4	0.00
20	Staybolt		Thread: M12		4	pcs
260	Washer		Designation: DIN 125 A		4	0.00
36a	washei		0		4	pcs
			Internal diameter: 13			
			Outer diameter: 24			
			Thickness: 2,5			
55	Outer sleeve		T I 1440		1	pcs
66a	Nut		Thread: M12	-	4	pcs
80	Chamber stack		Bearing type: SILICON CARBIDE	=	1	pcs
4	Chamber cpl.				1	-
	Guide vane					6
	Plate					1
	Retainer					1
	Intermediate chamber					1
	Vane					1
45	Neck ring					1
65	Retainer					1
4a	Chamber w. bearing cpl.				1	
	Guide vane					6
	Retainer for bearing					1
	Bearing bush					1
	Retainer					1
	Intermediate chamber					1
	Vane					1
45	Neck ring					1
45 65						
00	Retainer					1

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
- 5a	Chamber cpl.				1	
	Retainer				1	
	Intermediate chamber				1	
	Vane				1	
45	Neck ring				1	
65	Retainer				1	
36	Lock nut		Thread: M8		1	
47a	Bearing ring, rotating				1	
49	Impeller				3	
50a	Guide vane cpl.				1	
	Plate				1	
50a	Guide vane				6	
50b	Top plate				1	
51	Shaft, spline, cpl.				1	
64a	Spacing pipe				1	
64a	Spacing pipe		Internal diameter: 12,85		1	
			Outer diameter: 15,85			
			Length (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
66	Wedge lock washer				1	
105	Shaft seal		Material type: HQQE		1	pcs
	O-ring				1	
	O-ring				1	
	Seal driver, upper				1	
	Seal driver, lower				1	
	Spacer ring				1	
	Pipe				1	
	Plug				1	
	Plug				1	
	Compression spring				1	
	Socket set screw				1	
102	O-ring		Diameter: 22,00		1	
			Material type: EPDM			
			Thickness: 2,75			
103	Seal ring, stationary				1	
105	Seal ring, rotating				1	
107	O-ring				1	
113	Driver				1	

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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