

CR3-15 A-FGJ-A-E-HQQE 1x220/240 50HZ

Grundfos pump 96537595



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https://www.lenntech.com/grundfos/CRFAM/96537595/CR-3-15-A-FGJ-A-E-HQQE.html

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Position | Qty. | Description

1 CR 3-

CR 3-15 A-FGJ-A-E-HQQE



Product No.: On request

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts 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 combined DIN-ANSI-JIS flanges.

The pump is fitted with a 1-phase, fan-cooled asynchronous motor.

Further product details

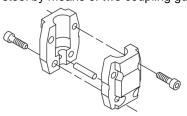
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An 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.

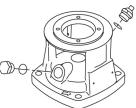
The colour code for the finished product is NCS 9000/RAL 9005.

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, pump head cover and flange for motor mounting is made in one piece. 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.



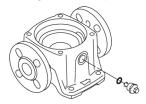
The shaft seal is screwed into the pump head.

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 base is made of cast iron. The flanges and base are cast in one piece. 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.



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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

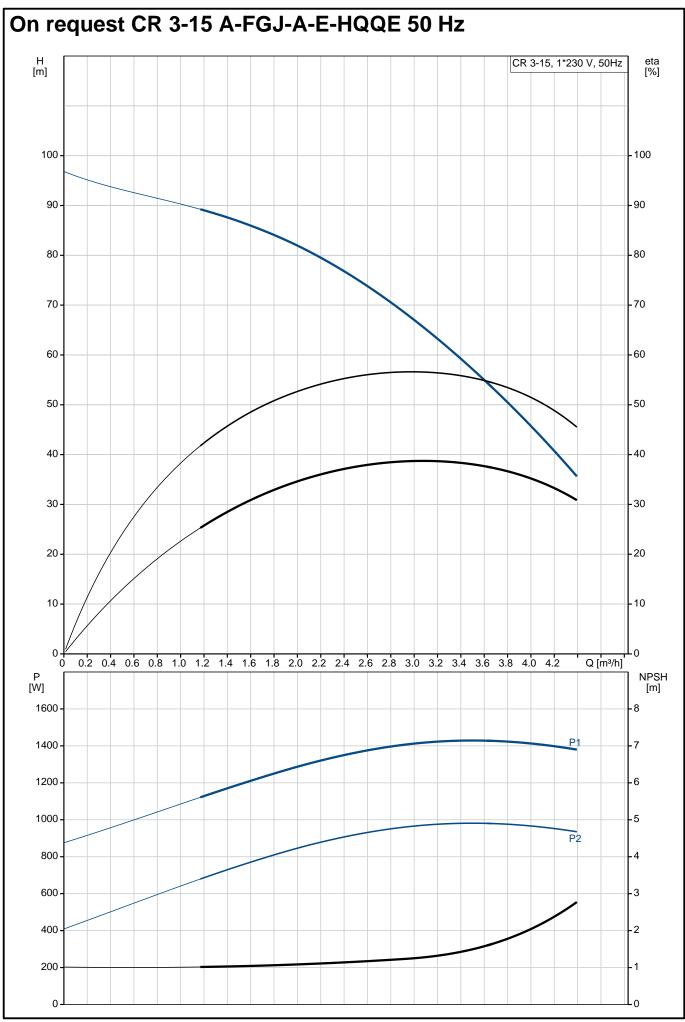
Liquid:

Pumped liquid: Water
Liquid temperature range: -20 .. 120 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³

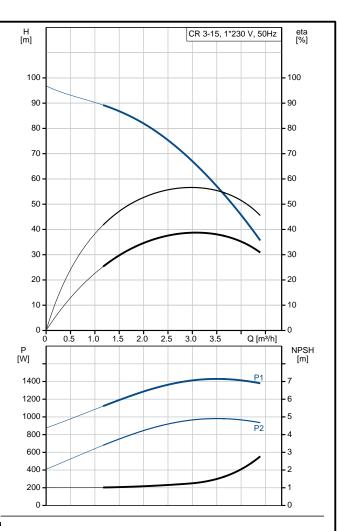
Technical:

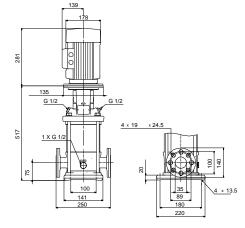
Rated flow: 3 m³/h
Rated head: 66.6 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE
Approvals on nameplate: CE, EAC,ACS
Curve tolerance: ISO9906:2012 3B

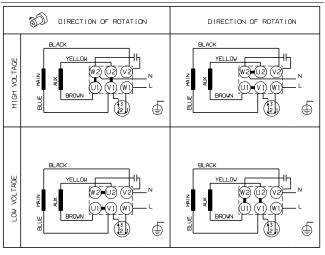
Position	Qty.	Description	
		Materials:	
		Base:	Cast iron
			EN 1561 EN-GJL-200
			ASTM A48-25B
		Impeller:	Stainless steel
			EN 1.4301 AISI 304
		Bearing:	SIC
		Bearing.	310
	Installation:		
		Maximum ambient temperature:	40 °C
		Maximum operating pressure:	25 bar
		Max pressure at stated temp:	25 bar / 120 °C
			25 bar / -20 °C
		Type of connection:	DIN / ANSI / JIS
		Size of inlet connection:	DN 25/32 1 1/4 inch
		Size of outlet connection:	DN 25/32
		C.20 Of Gallot Confriction.	1 1/4 inch
		Pressure rating for pipe connect	
		Flange rating inlet:	250 lb
		Flange size for motor:	FT115
		Floating data:	
		Electrical data: Motor standard:	IEC
		Motor type:	90SB
		Rated power - P2:	1.1 kW
		Power (P2) required by pump:	
		Mains frequency:	50 Hz
		Rated voltage:	1 x 220-230/240 V
		Rated current:	7.40/6.70 A
		Starting current:	390 %
		Cos phi - power factor: Rated speed:	0.98/0.99
		Motor efficiency at full load:	2770 rpm 73-71 %
		Number of poles:	2
		Enclosure class (IEC 34-5):	55 Dust/Jetting
		Insulation class (IEC 85):	F
		Others:	. 07
		Minimum efficiency index, MEI Net weight:	40.5 kg
		Gross weight:	43.2 kg
		Shipping volume:	0.104 m ³



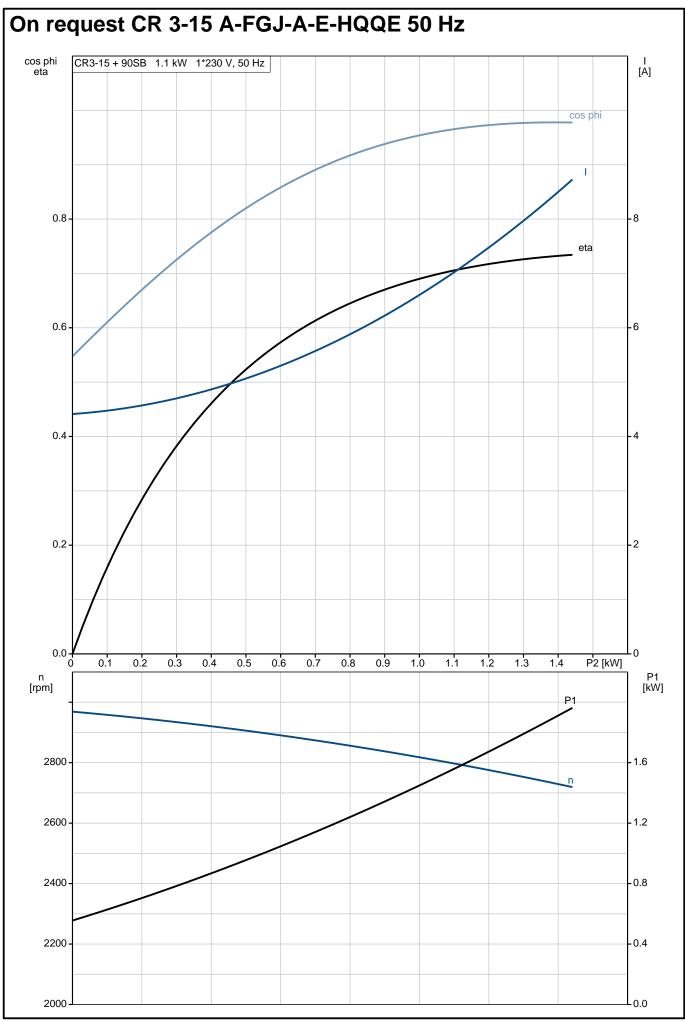
CR 3-15 A-FGJ-A-E-HQQE On request On request 3 m³/h 66.6 m 15 15 0 N Vertical Single HQQE CE, EAC,ACS ISO9906:2012 3B A A Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel EN 1.4301 AISI 304 A E SIC
On request On request 3 m³/h 66.6 m 15 15 0 N Vertical Single HQQE CE, EAC,ACS ISO9906:2012 3B A A Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel EN 1.4301 AISI 304 A E
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Stainless steel EN 1.4301 AISI 304 A
EN 1.4301 AISI 304 A
AISI 304 A E
A E
E
_
SIC
CiC
40 °C
25 bar
25 bar / 120 °C
25 bar / -20 °C
DIN / ANSI / JIS
DN 25/32
1 1/4 inch
DN 25/32
1 1/4 inch
PN 25
250 lb
FT115
FGJ
FG0
Water
-20 120 °C
-20 120 °C 20 °C
998.2 kg/m³
·
IEC oosb
90SB
1.1 kW
1.1 kW
50 Hz
1 x 220-230/240 V
7.40/6.70 A
390 %
0.98/0.99
2770 rpm
73-71 %
2
55 Dust/Jetting
F
PTO



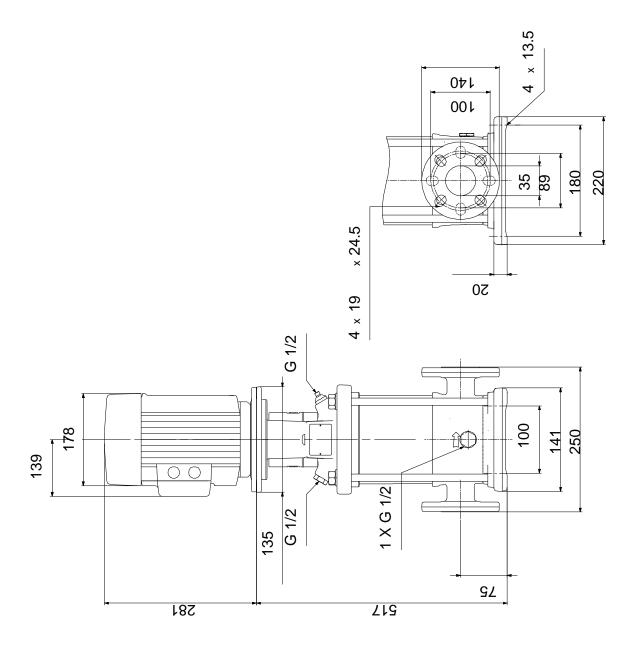




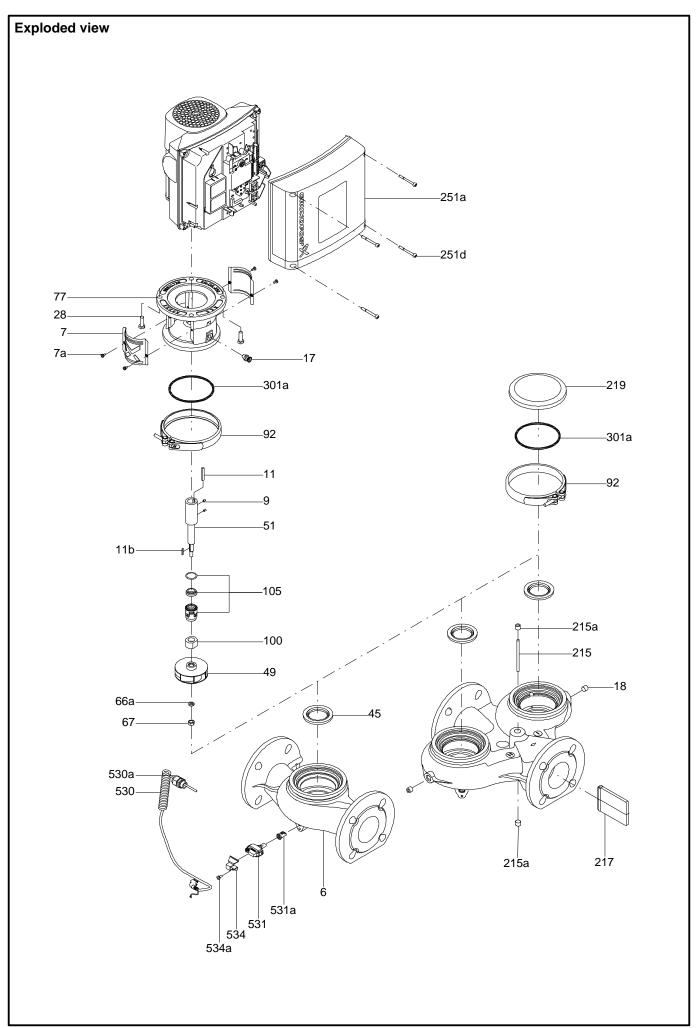
Description	Value
Motor No:	85215705
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI:	0.7
Net weight:	40.5 kg
Gross weight:	43.2 kg
Shipping volume:	0.104 m ³

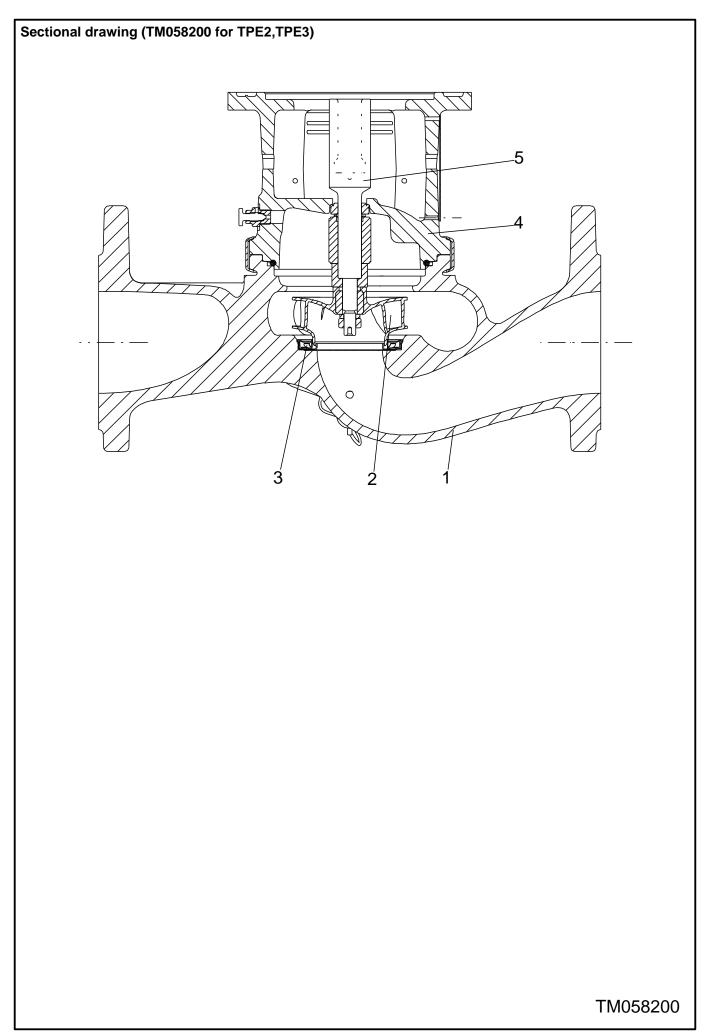


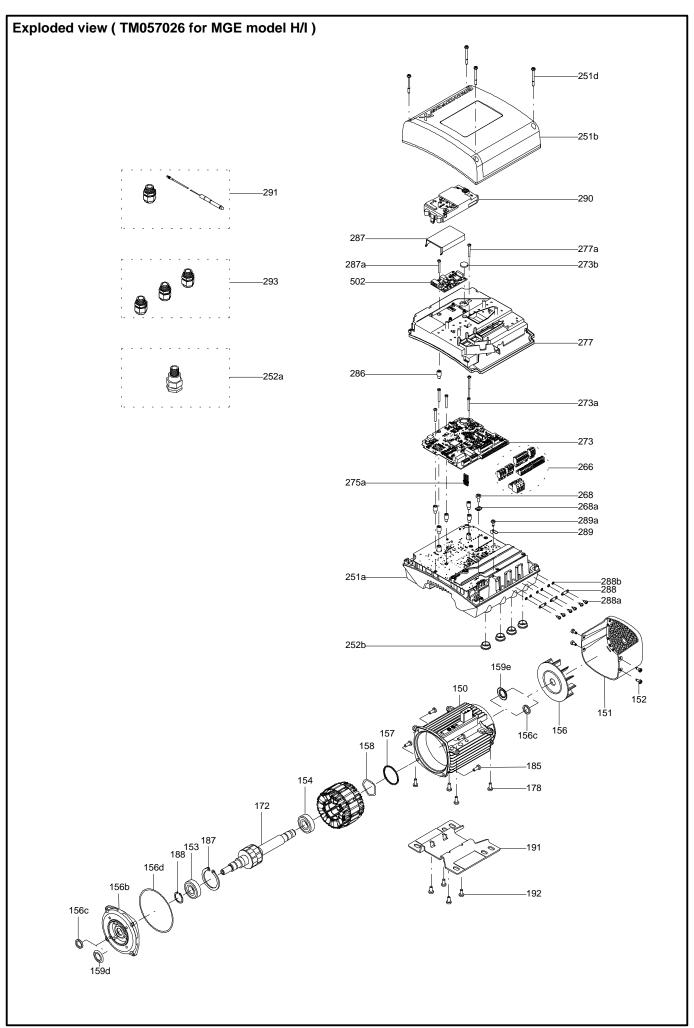
On request CR 3-15 A-FGJ-A-E-HQQE 50 Hz



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







Parts list CR 3-15, Product No. On request Valid from 1.1.2004 (0401)

	Description Motor	 Données de classification	 1	ıantité	Unit pcs
					•
_	Base cpl.		1		pcs
6	Base		_	1	
	Sealing parts		1		pcs
25	Drain plug w/bypass valve			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	Poo
7	Coupling guard			2	
7a	Combi Slot Torx screw			4	
18	Air vent screw				
10				1	
	Plug			1	
00	Spindle			1	
23a	Plug			1	
28	Hex head screw	Length (mm): 20		4	
		Thread: M8			
60	Formed wire spring			1	
8	Coupling cpl.		1		pcs
9	Hex socket head cap screw	Designation: DIN 912		4	
		Length (mm): 25			
		Thread: M8			
10	Shaft pin	Diameter: 5		1	
	•	Length (mm): 26			
10a	Coupling half			2	
26	Staybolt	Length (mm): 292	4		pcs
20	Glaybon	Thread: M12	_		pos
36a	Washer	Designation: DIN 125 A	4		ncc
30a	wasilei	Internal diameter: 13	4		pcs
		Outer diameter: 24			
	0.1	Thickness: 2,5	_		
55	Outer sleeve		1		pcs
66a	Nut	Thread: M12	4		pcs
80	Chamber stack		1		pcs
4	Chamber cpl.			12	
	Guide vane			6	
	Plate			1	
	Retainer			1	
	Intermediate chamber			1	
	Vane			1	
45	Neck ring			1	
65	Retainer			1	
4a	Chamber w. bearing cpl.			2	
	Guide vane			- 6	
	Retainer for bearing			1	
	Bearing bush			<u>'</u>	
	Retainer			1	
	Intermediate chamber			1	
	Vane			1	
45	Neck ring			1	
65	Retainer			1	
5a	Chamber cpl.			1	
	Retainer			1	
	Intermediate chamber			1	

Pos	Description	Annotation	Données de classification	Référence	Quantit	é Unité
	Vane					1
45	Neck ring					1
65	Retainer					1
36	Lock nut		Thread: M8		1	
47a	Bearing ring, rotating				2	
49	Impeller cpl.				15	
- 50a	Guide vane cpl.				1	
	Guide vane					6
	Plate					1
50b	Top plate					1
- 51	Shaft, spline, cpl.				1	
51	Shaft					1
62	Stop ring					1
64a	Spacing pipe				12	
64a	Spacing pipe		Internal diameter: 12,85		2	
			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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