

Submittal Data

PROJECT:	UNIT TAG:	QUANTITY:
	TYPE OF SERVICE:	
REPRESENTATIVE:	SUBMITTED BY:	DATE:
ENGINEER:	APPROVED BY:	DATE:
CONTRACTOR:	ORDER NO.:	DATE:



MAGNA3 D 100-40 F

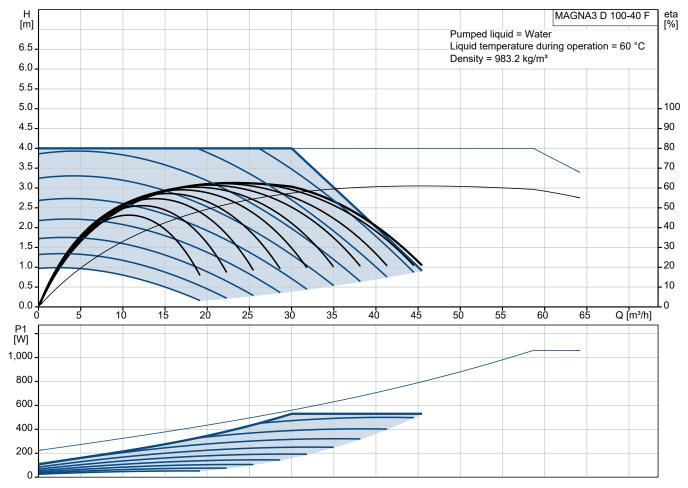
The MAGNA3 D circulator pump means double the performance and reduced downtime due to the three multipump modes: Alternating, backup and cascade operation. The two pumps communicate wirelessly. The MAGNA3 D is ideal for high-performance heating and cooling applications.

Note! Product picture may differ from actual product

Conditions of Service					
Liquid:	Water				
Temperature:	60 °C				
Specific Gravity:	0.985				

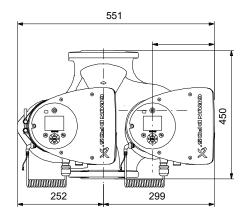
Pump Data	
Maximum operating pressure:	6 bar
Liquid temperature range:	-10 110 °C
Maximum ambient temperature:	40 °C
Flange standard:	DIN
Pipe connection:	DN 100
Product number:	On request

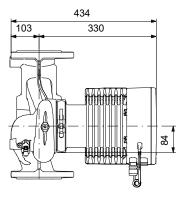
Motor Data						
P1 max:	28 530 W					
Mains frequency:	50 / 60 Hz					
Enclosure class:	X4D					
Insulation class:	F					

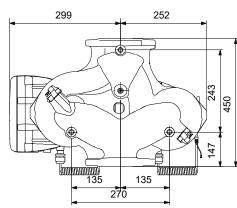


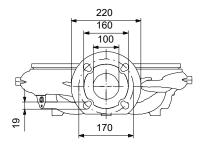


Submittal Data









Materials:

Pump housing: Cast iron
Pump housing: EN-GJL-250
Pump housing: ASTM A48-250B
Impeller: PES 30%GF



Date: 23/09/2022

Qty. | Description

1 MAGNA3 D 100-40 F



Note! Product picture may differ from actual product

Product No.: On request

The Grundfos MAGNA3 D circulator pump is the ideal choice for almost any building project – old or new. With its unrivalled energy efficiency, all-encompassing range and built-in communication capabilities, MAGNA3 D is ideal for engineers and specifiers looking to create high-performance heating and cooling systems.

The pump is maintenance-free due to the canned-rotor type design. This also means that pump and motor form an integral unit without shaft seal and with only two gaskets for sealing. The bearings are lubricated by the pumped liquid.

MAGNA3 D offers three multipump modes: Alternating, backup and cascade operation.

In alternating and backup operation, only one pump operates at a time, both ensuring constant comfort.

In alternating operation, the change from one pump to the other depends on time or energy.

If a pump fails, the other pump will take over automatically.

In backup operation, the backup pump is operated at intervals to prevent seizing up.

If the duty pump stops due to a fault, the backup pump will start automatically.

In cascade operation, the pumps automatically switch on and off, adapting to the current consumption in the system.

The two pumps communicate wirelessly.

MAGNA3 D features an intuitive display and allows you to connect wirelessly with the Grundfos GO Remote app, giving you access to advanced reporting and monitoring.

The pump includes fieldbus communication via CIM modules as well as analog and digital inputs and configurable relays.

Control features include AUTOADAPT and FLOWADAPT. FLOWADAPT which reduces the need for throttling valves, thus cutting costs on system components.

MAGNA3 D is the superior choice for a wide range of heating and cooling applications, including:

- · Mixing loops
- Heating surfaces
- · Air conditioning surfaces
- · Ground-source heat pump systems
- Smaller chiller applications.

MAGNA3 D is a single-phase pump and characterised by having the controller and display integrated in the control box. The pump also has a built-in differential-pressure and temperature sensor.

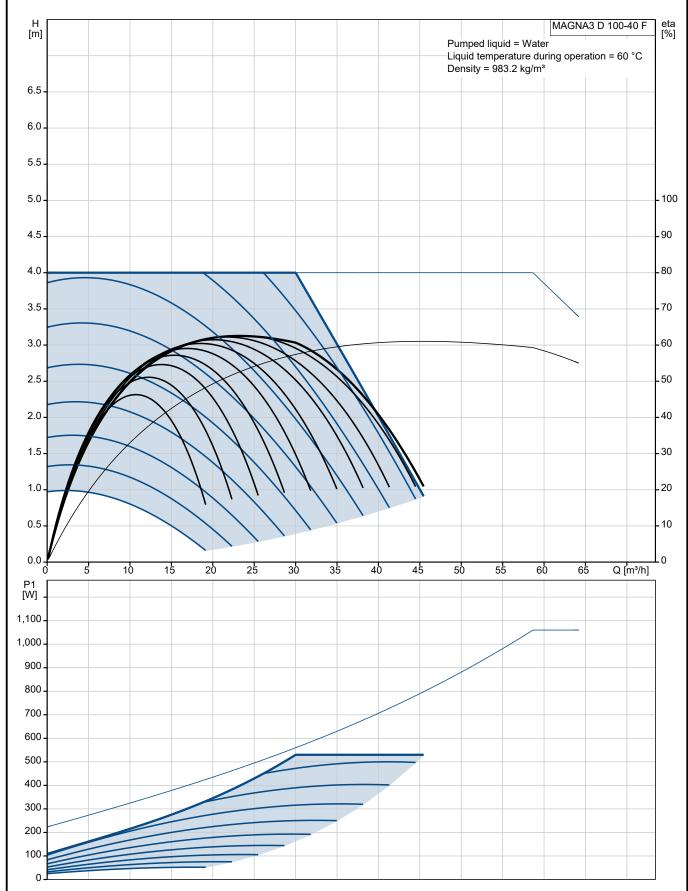
The pump housing is available in both cast-iron and stainless-steel versions. The composite rotor can is carbon-fibre reinforced, the bearing plate and rotor cladding are made of stainless steel and the stator housing is made of aluminium. The power electronics are air-cooled.

MAGNA3 incorporates a 4-pole synchronous, permanent-magnet motor (PM motor). This motor type is characterised by higher efficiency than a conventional asynchronous squirrel-cage motor. The pump speed is controlled by an integrated frequency converter.



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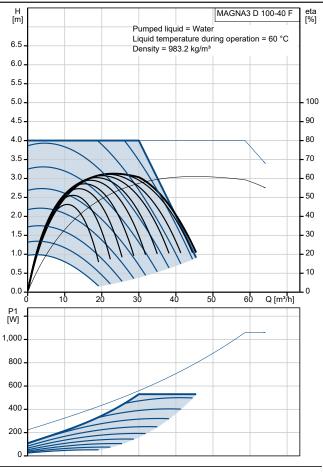
On request MAGNA3 D 100-40 F

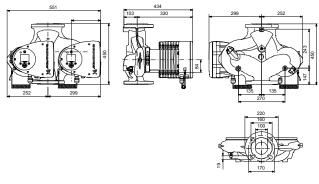


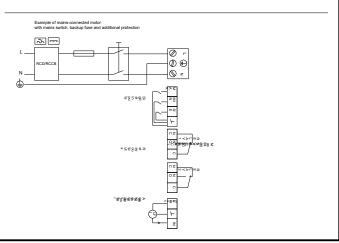


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Description	Value
General information:	
Product name:	MAGNA3 D 100-40 F
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	23.83 m³/h
Rated head:	5.098 m
Head max:	40 dm
TF class:	110
Approvals:	CE,VDE,EAC,MOROCCO,UKCA, TSERCM,UkrSEPRO
Model:	D
Materials:	
Pump housing:	Cast iron
Pump housing:	EN-GJL-250
Pump housing:	ASTM A48-250B
Impeller:	PES 30%GF
Installation:	
Range of ambient temperature:	0 40 °C
Maximum operating pressure:	6 bar
Flange standard:	DIN
Pipe connection:	DN 100
Pressure rating:	PN 6
Port-to-port length:	450 mm
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-10 110 °C
Selected liquid temperature:	60 °C
Density:	983.2 kg/m³
Electrical data:	
Power input - P1:	28 530 W
Mains frequency:	50 / 60 Hz
Rated voltage [V]:	1 x 230 V
Maximum current consumption:	0.27 2.41 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.17
Environmental approvals:	CN ROHS,WEEE
Net weight:	60 kg
Gross weight:	69.8 kg
Shipping volume:	0.207 m³
Swedish RSK No.:	5732554
Norwegian NRF no.:	9042802
Country of origin:	DE
Custom tariff no.:	84137030



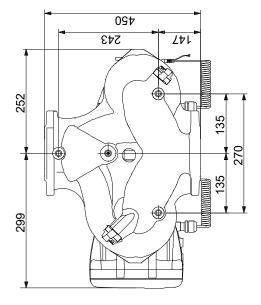


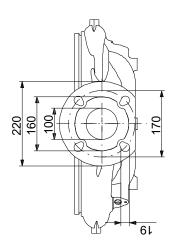


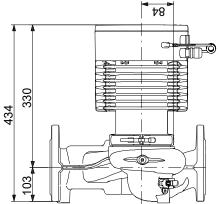


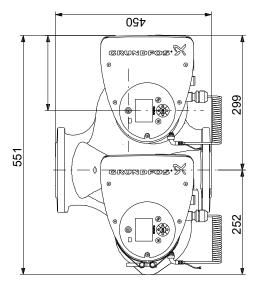
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On request MAGNA3 D 100-40 F







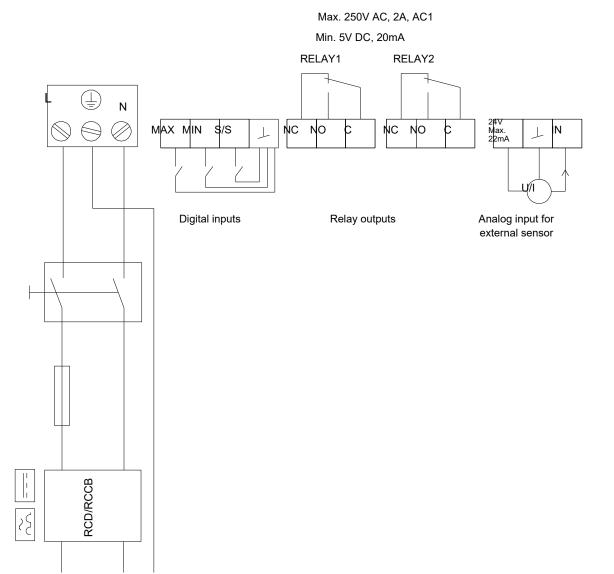


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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On request MAGNA3 D 100-40 F



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Example of mains-connected motor with mains switch, backup fuse and additional protection



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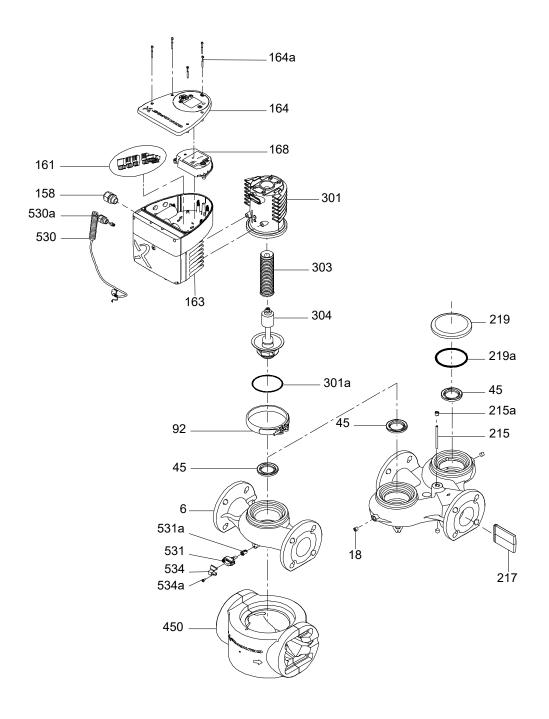
Order Data:

Position	Your pos.	Product name	Amount	Product No	Total
		MAGNA3 D 100-40 F	1	On request	Price on request
	I	I	I	l l	



Date: 23/09/2022

(TM057299 MAGNA3 750-1600W)





Date: 23/09/2022

Spare parts MAGNA3 D 100-40 F, Product No. On request Produced After 1732 (production year and week number)

Pos	Description Kit, Connector plugs	Annotation	Classification Data	Part no. 98357861	Qty 1		Un pcs
161	Plug cpl.				-	1	,,
159b	Connector plug 4-pole					•	
159b	Connector plug 3-pole						
159b	Connector plug 3-pole						
1005	Kit, Cont. box cover front end			99341976	1		рс
164a	Screw DELTA PT			33341370	•	5	рс
164	Cover					1	
104	Kit, Control box conf. Head I			99333855	1		рс
	Kit, control box non-configured			98859		1	pc
	Control box hori-configured			300030	,00		
	Control box						
	Box						
530	Cable						
164	Cover						
501							
501	Displayboard cpl.						
100	Displayboard cpl.						
168	Displayboard, SMD						
163	Control box						
531	Sensor						
531a	Sealing cap					_	
	GSC			00004507	_	1	
	Kit, Control box conf. Head II			99334527	1		po
	Kit,control box non-configured			988595	085	1	
	Control box cpl.						
	Control box						
	Box						
530	Cable						
164	Cover						
501	Displayboard cpl.						
	Displayboard cpl.						
168	Displayboard, SMD						
163	Control box						
531	Sensor						
531a	Sealing cap						
	Kit, Displayboard			99338995	1		pc
163b	Compression spring					4	
164a	Screw DELTA PT					5	
164	Cover					1	
501	Displayboard cpl.					1	
	Displayboard cpl.						
168	Displayboard, SMD						
	Kit, Pump head			98148757	1		рс
92	Clamp cpl.					1	
301	Pump head					1	
	Stator w/housing cpl.						
301	Stator housing						
303	Rotor can cpl.						
304	Shaft w/impeller cpl.						
	Bearing plate cpl.						
301a	O-ring						
	Kit, Sensor			99313067	1		рс
530	Cable					1	-



Date: 23/09/2022

Pos	Description	Annotation	Classification Data	Part no.	Qty	. Unit
- 531	Sensor					1
531a	Sealing cap					
534a	Pan head thread forming screw					1
534	Bracket					1
-	Kit, Sensor			99313072	1	pcs
530	Cable					10
- 531	Sensor					10
531a	Sealing cap					
-	Kit, Valve flap			96407258	1	pcs
215	Guide pin					1
217	Valve flap					1
-	Spare, Clamp			98148759	1	pcs
92	Clamp cpl.					1
-	Spare, O-ring			98148761	1	pcs
301a	O-ring					1
-	Spare, Sealing cap			98613455	1	pcs
531a	Sealing cap					1
-	Pump housing cpl.			98660084	1	pcs
18	Pipe plug			965476	15	2
45	Neck ring cpl.			992441	94	2
301a	O-ring			92780122	1	pcs
301a	O-ring			98660099	1	pcs
531a	Sealing cap			98708139	1	pcs