

Submittal Data

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

MAGNA1 D 80-100 F



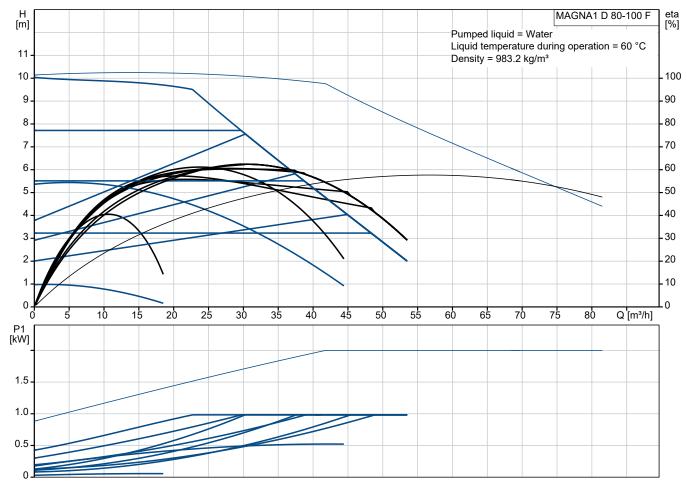
The MAGNA1 D circulator pump is ideal for basic performance needs in heating and cooling application. The pump offers peace of mind due to the security of supply obtained by having a redundant pump, resulting in improved uptime. The two pumps communicate wirelessly.

Note! Product picture may differ from actual product

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

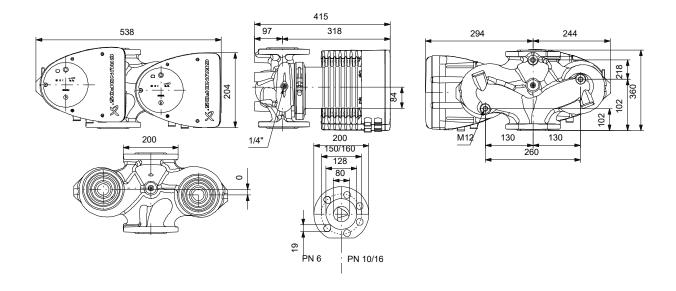
Pump Data		
Maximum operating pr	essure: 6 bar	
Liquid temperature ran	•	
Maximum ambient tem	perature: 40 °C	
Flange standard:	DIN	
Pipe connection:	DN 80	
Product number:	On request	

Motor Data				
P1 max:	31.01 1002 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: 26/09/2022

Qty. | Description

1 MAGNA1 D 80-100 F



Note! Product picture may differ from actual product

Product No.: On request

The Grundfos MAGNA1 D circulator pump is the simple option for a job well done.

With its high energy efficiency the product lives up to the EuP 2015 regulations ensuring substantial savings on electricity, and with its intuitive, user-friendly interface and maintenance-free design, MAGNA1 D is the ideal circulator pump for basic performance needs in applications where basic system control and monitoring are desired.

With this range of circulator pumps, everything from setup to basic control and monitoring are made easy. The pump is maintenance-free due to the canned-rotor type design.

MAGNA1 D offers peace of mind due to the security of supply obtained by having a redundant pump, resulting in improved uptime. The flow, and thereby constant comfort, is secured because of its ability to automatically switch between pump heads if one breaks down. The two pumps communicate wirelessly.

MAGNA1 D offers the possibility of monitoring the pump via the fault relay output. The digital start/stop input remotely controls the pump. The pump communicates wirelessly with the Grundfos GO Remote app and can also communicate via radio.

MAGNA1 D can work as main pump in both heating and cooling applications, including:

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

MAGNA1 D is a single-phase pump and characterised by having the controller and operating panel integrated in the control box.

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.

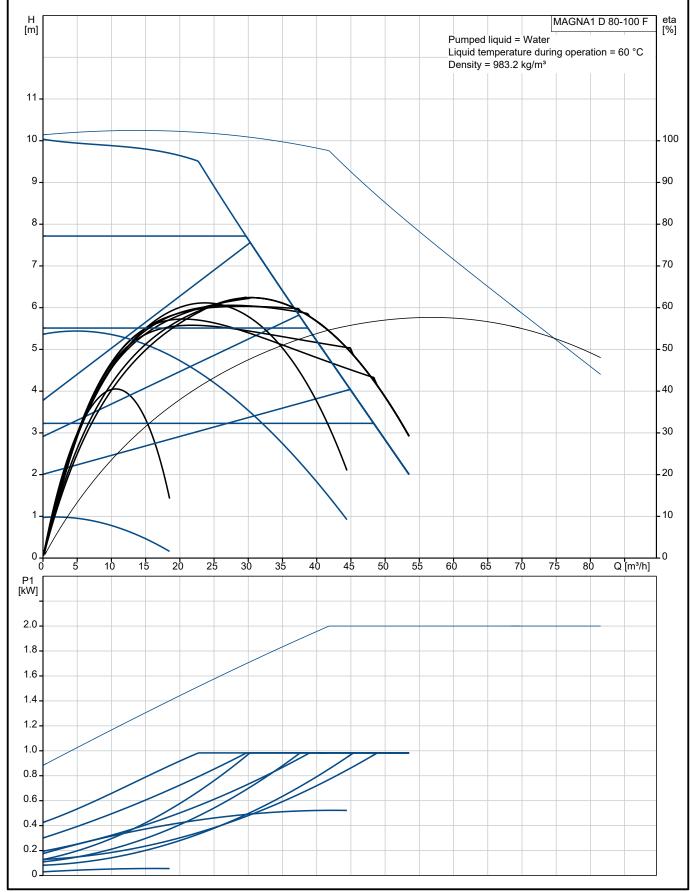
The power electronics are air-cooled.

The pump 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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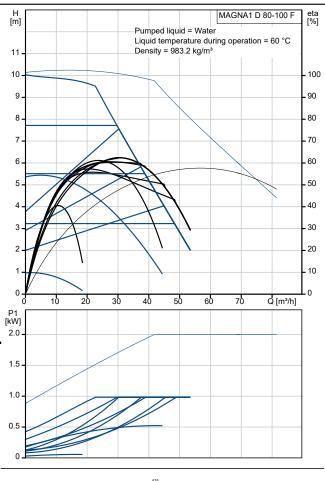
On request MAGNA1 D 80-100 F

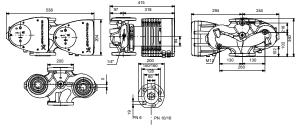


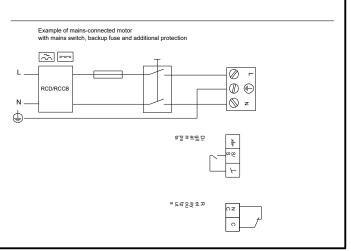


Date: 26/09/2022

DescriptionValueGeneral information:MAGNA1 D 80-100 FProduct name:MAGNA1 D 80-100 FProduct No:On requestEAN number:On requestTechnical:Head max:100 dmTF class:110Approvals:CE,VDE,EAC,MOROCCO,UKCA, TSERCM,UkrSEPROModel:CMaterials:Cast ironPump housing:EN-GJL-250Pump housing:ASTM A48-250BImpeller:PES 30%GFInstallation:Range of ambient temperature:0 40 °CMaximum operating pressure:6 barFlange standard:DINPipe connection:DN 80Pressure rating:PN 6Port-to-port length:360 mmLiquid:Pumped liquid:Pumped liquid:Water		
Product name: MAGNA1 D 80-100 F Product No: On request EAN number: On request Technical: Head max: 100 dm TF class: 110 Approvals: CE,VDE,EAC,MOROCCO,UKCA, TSERCM,UkrSEPRO Model: C 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 80 Pressure rating: PN 6 Port-to-port length: 360 mm Liquid:	•	Value
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Model: Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM A48-250B Impeller: PES 30%GF Installation: Range of ambient temperature: Maximum operating pressure: Flange standard: DIN Pipe connection: DN 80 Pressure rating: PN 6 Port-to-port length: 360 mm Liquid:	TF class:	
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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 80 Pressure rating: PN 6 Port-to-port length: 360 mm Liquid:	Model:	С
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Impeller: PES 30%GF Installation: Range of ambient temperature: 0 40 °C Maximum operating pressure: 6 bar Flange standard: DIN Pipe connection: DN 80 Pressure rating: PN 6 Port-to-port length: 360 mm Liquid:	Pump housing:	EN-GJL-250
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Maximum operating pressure: 6 bar Flange standard: DIN Pipe connection: DN 80 Pressure rating: PN 6 Port-to-port length: 360 mm Liquid:	Installation:	
Flange standard: Pipe connection: DN 80 Pressure rating: Port-to-port length: Ciquid:	Range of ambient temperature:	0 40 °C
Pipe connection: Pressure rating: Port-to-port length: Ciquid: DN 80 PN 6 Port-to-port length: 360 mm	Maximum operating pressure:	6 bar
Pressure rating: PN 6 Port-to-port length: 360 mm Liquid:	Flange standard:	DIN
Port-to-port length: 360 mm Liquid:	Pipe connection:	DN 80
Liquid:	Pressure rating:	PN 6
•	Port-to-port length:	360 mm
Pumped liquid: Water	Liquid:	
	Pumped liquid:	Water
Liquid temperature range: -10 110 °C	Liquid temperature range:	-10 110 °C
Selected liquid temperature: 60 °C	Selected liquid temperature:	60 °C
Density: 983.2 kg/m³	Density:	983.2 kg/m³
Electrical data:	Electrical data:	
Power input - P1: 31.01 1002 W	Power input - P1:	31.01 1002 W
Mains frequency: 50 / 60 Hz	Mains frequency:	50 / 60 Hz
Rated voltage [V]: 1 x 230 V	Rated voltage [V]:	1 x 230 V
Maximum current consumption: 0.32 4.41 A	Maximum current consumption:	0.32 4.41 A
Enclosure class (IEC 34-5): X4D	Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85): F	Insulation class (IEC 85):	F
Others:	Others:	
Energy (EEI): 0.21	Energy (EEI):	0.21
Environmental approvals: CN ROHS,WEEE		CN ROHS,WEEE
Net weight: 53.5 kg		53.5 kg
Gross weight: 61.1 kg	Gross weight:	61.1 kg
Shipping volume: 0.207 m³	Shipping volume:	0.207 m ³
Country of origin: DE		DE
Custom tariff no.: 84137030	Custom tariff no.:	84137030



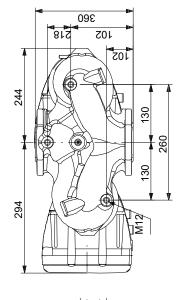


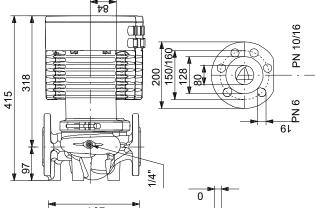


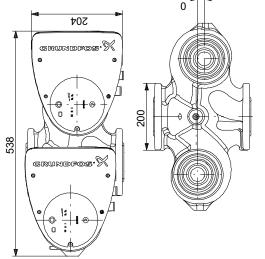


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On request MAGNA1 D 80-100 F







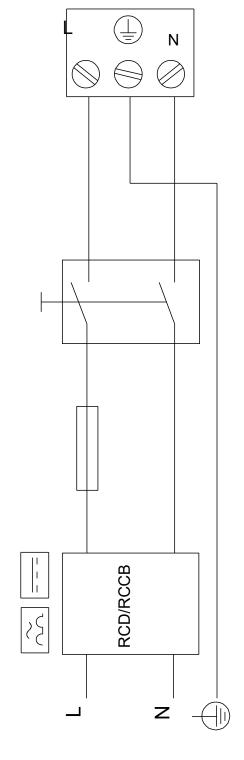
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.

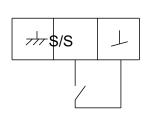


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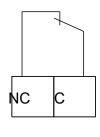
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Digital inputs



Relay outputs

Note! All units are in [mm] unless others are stated.

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



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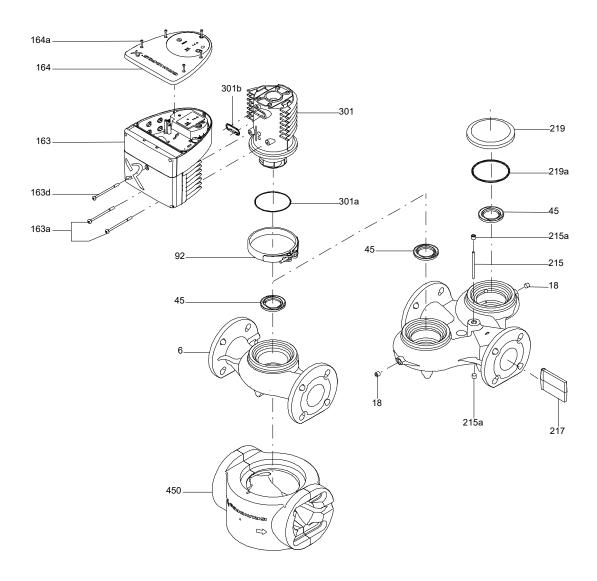
Order Data:

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Position	Your pos.	Product name	Amount		Total
		MAGNA1 D 80-100 F	1	On request	Price on request
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Date: 26/09/2022

(TM054005 for Magna1 750-1600W)





Date: 26/09/2022

(TM069997 Magna1 ME/LA model C)

