

#### **Submittal Data**

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

#### MAGNA1 D 80-60 F



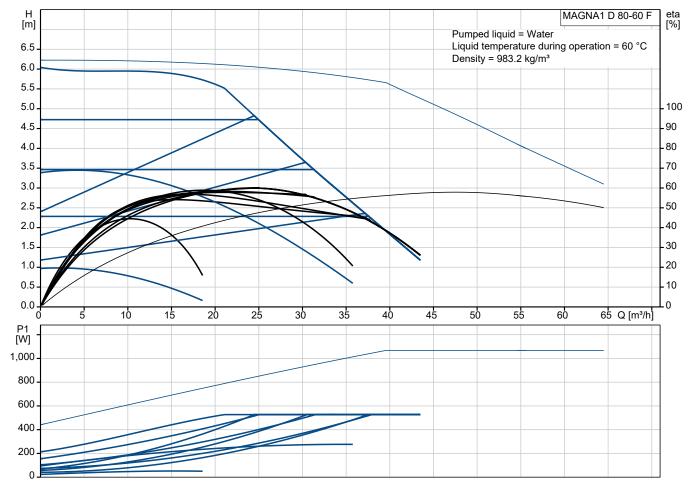
The MAGNA1 D circulator pump is ideal for basic performance needs in heating and cooling application. The pump offers peace of mind due to the security of supply obtained by having a redundant pump, resulting in improved uptime. The two pumps communicate wirelessly.

Note! Product picture may differ from actual product

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

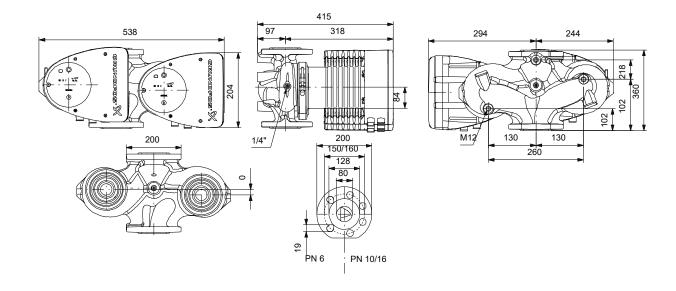
Pump Data	
Maximum operating pressure:	6 bar
Liquid temperature range:	-10 110 °C
Maximum ambient temperature:	40 °C
Flange standard:	DIN
Pipe connection:	DN 80
Product number:	On request

Motor	Data
P1 max:	24.68 537 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 80-60 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.

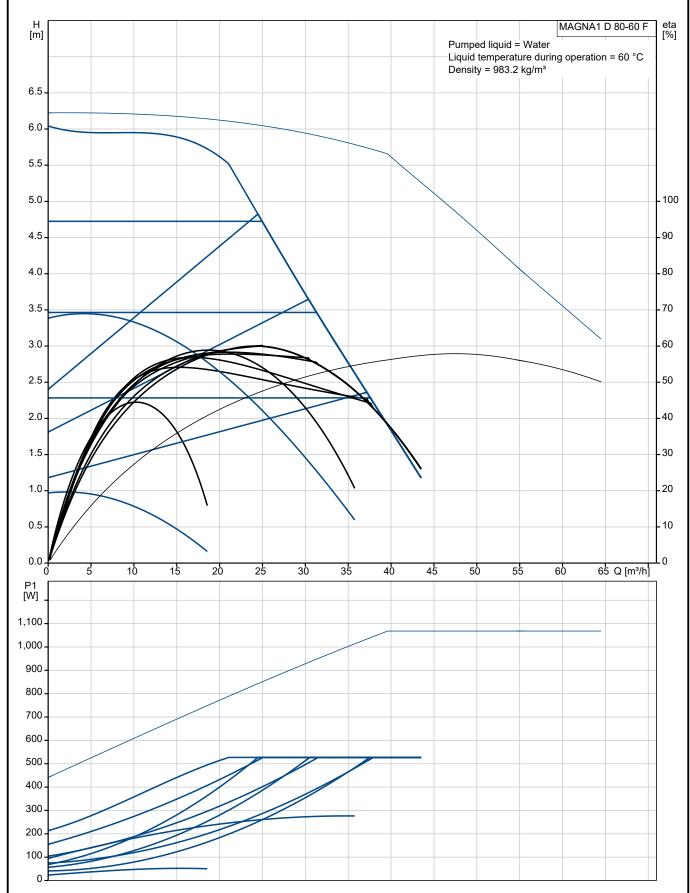
The power electronics are air-cooled.

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.



**Date:** 26/09/2022

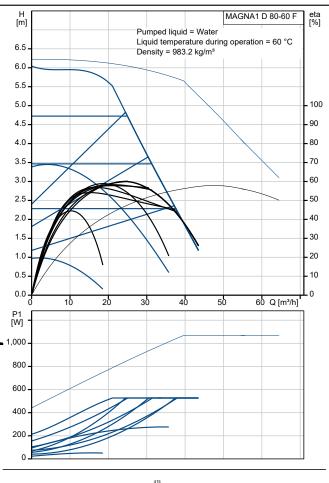
### On request MAGNA1 D 80-60 F

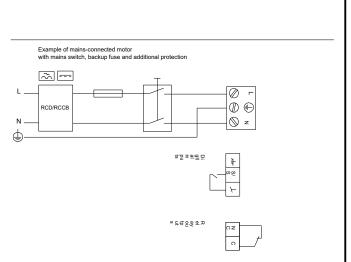




**Date:** 26/09/2022

Description	Value
Description General information:	Value
Product name:	MAGNA1 D 80-60 F
Product No:	On request
EAN number:	On request
Technical:	On request
Head max:	60 dm
TF class:	110
Approvals:	CE,VDE,EAC,MOROCCO,UKCA, TSERCM,UkrSEPRO
Model:	С
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:	
Pumped liquid:	Water
Liquid temperature range:	-10 110 °C
Selected liquid temperature:	60 °C
Density:	983.2 kg/m³
Electrical data:	
Power input - P1:	24.68 537 W
Mains frequency:	50 / 60 Hz
Rated voltage [V]:	1 x 230 V
Maximum current consumption:	0.27 2.38 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.20
Environmental approvals:	CN ROHS,WEEE
Net weight:	47.3 kg
Gross weight:	54.9 kg
Shipping volume:	0.207 m³
Country of origin:	DE
Custom tariff no.:	84139100

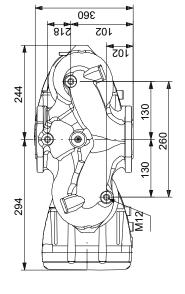


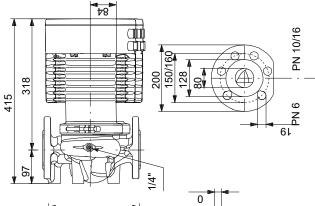


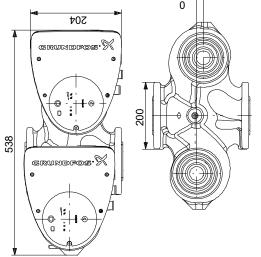


26/09/2022 Date:

## On request MAGNA1 D 80-60 F





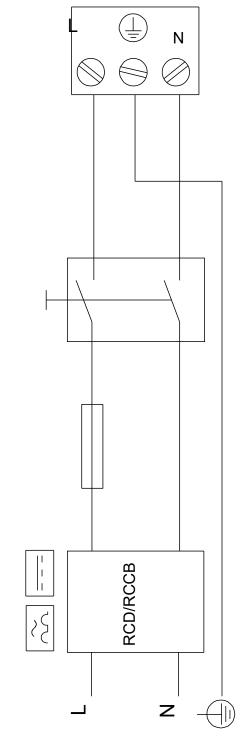


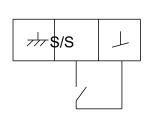
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



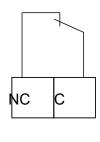
**Date:** 26/09/2022

### On request MAGNA1 D 80-60 F





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



**Date:** 26/09/2022

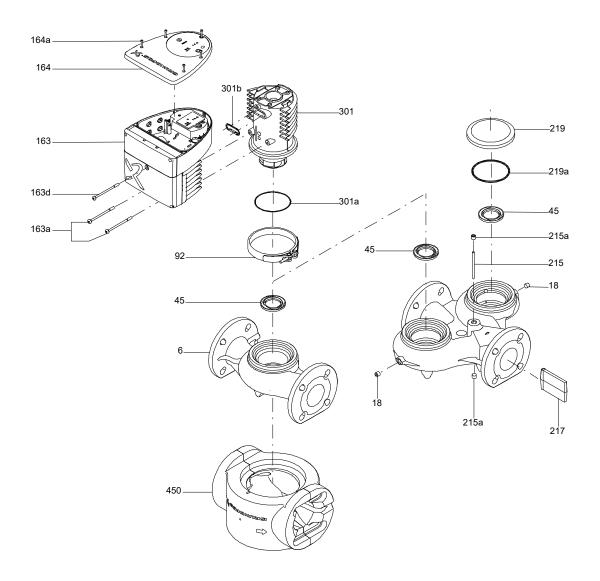
#### Order Data:

Position	Your pos.	Product name		Product No	Total
		MAGNA1 D 80-60 F	1		Price on request
					request



**Date:** 26/09/2022

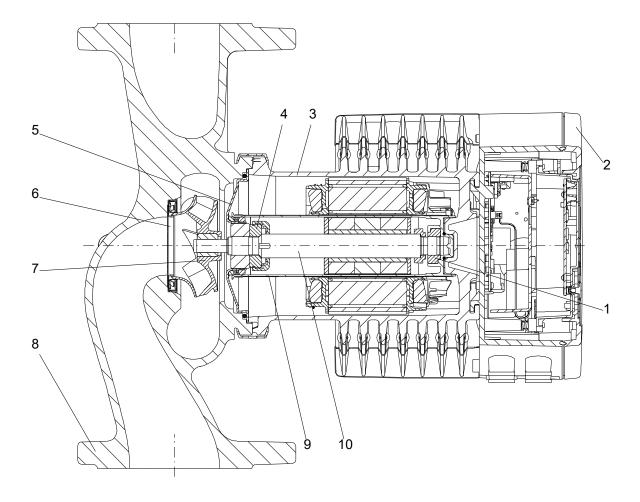
( TM054005 for Magna1 750-1600W)





**Date:** 26/09/2022

(TM069997 Magna1 ME/LA model C)





**Date:** 26/09/2022

# Spare parts MAGNA1 D 80-60 F, Product No. On request Produced After 1731 (production year and week number)

Pos	Description Kit, Control box conf. Head I	Annotation	Classification Data	Part no. 99426923	Qty 1	/.	Unit
	•				-	_	pcs
	Kit,control box non-configured			992804	45	1	
	Control box cpl.						
	Control box						
159c	Pan washer head screw						
164a	Screw DELTA PT						
164	Cover						
163	Control box						
163d	Pan head screw						
163a	Pan head screw						
301b	Protector						
	GSC					1	
	Kit, Control box conf. Head II			99427028	1		pcs
	Kit,control box non-configured			992804	145	1	
	Control box cpl.						
	Control box						
159c	Pan washer head screw						
164a	Screw DELTA PT						
164	Cover						
163	Control box						
163d	Pan head screw						
163a	Pan head screw						
301b	Protector						
	GSC					1	
	Kit, Cover			99280465	1		pcs
164a	Screw DELTA PT					5	•
164	Cover					1	
	Kit, Pump head			98148755	1		pcs
92	Clamp cpl.			001.0100		1	P
301	Pump head					1	
001	Stator w/housing cpl.						
301	Stator housing						
303	Rotor can cpl.						
304	Shaft w/impeller cpl.						
	Bearing plate cpl.						
301a	O-ring						
JJIU	Kit, Valve flap			96407257	1		pcs
215	Guide pin			30-101 201		1	Pos
217	Valve flap					1	
211	Spare, Clamp			98148759	1		pcs
92	Clamp cpl.			30170133		1	pus
32	Spare, O-ring			98148761	1		pcs
2010	O-ring			<i>3</i> 0 140 / 0 l		1	μυς
301a				00660074	1		n
10	Pump housing cpl.			98660074			pcs
18	Pipe plug			965476			
45	Neck ring cpl.			992441	94	_2	