

Submittal Data

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



MAGNA1 50-80 F

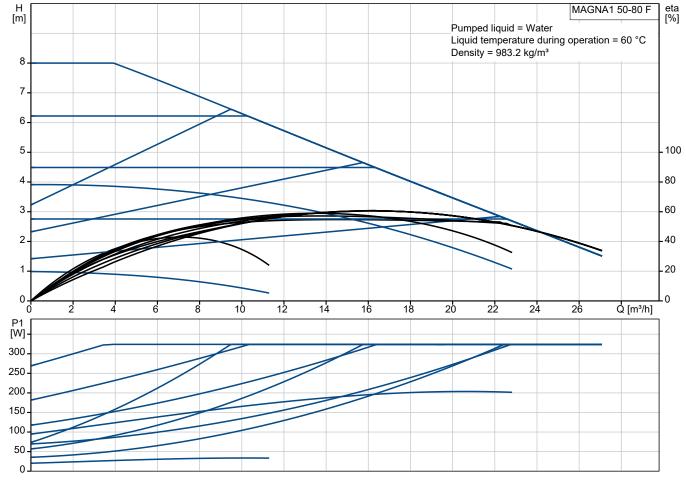
The Grundfos MAGNA1 circulator pump is ideal for basic performance needs in heating and cooling applications. The pump offers basic system control and monitoring and can communicate via a fault relay and digital start/stop.

Note! Product picture may differ from actual product

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

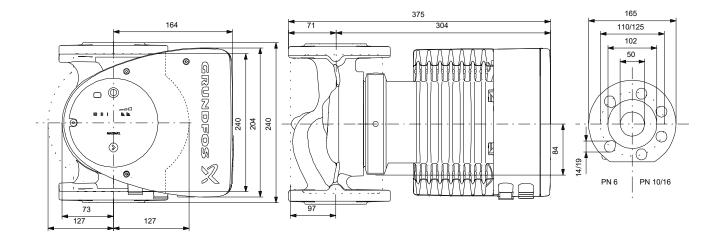
Pump Data	
Maximum operating pressure:	10 bar
Liquid temperature range:	-10 110 °C
Maximum ambient temperature:	40 °C
Flange standard:	DIN
Pipe connection:	DN 50
Product number:	On request

Motor Data					
P1 max:	20.91 331 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: 25/09/2022

Qty. | Description

1 MAGNA1 50-80 F



Note! Product picture may differ from actual product

Product No.: On request

The Grundfos MAGNA1 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 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 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.

MAGNA1 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 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.

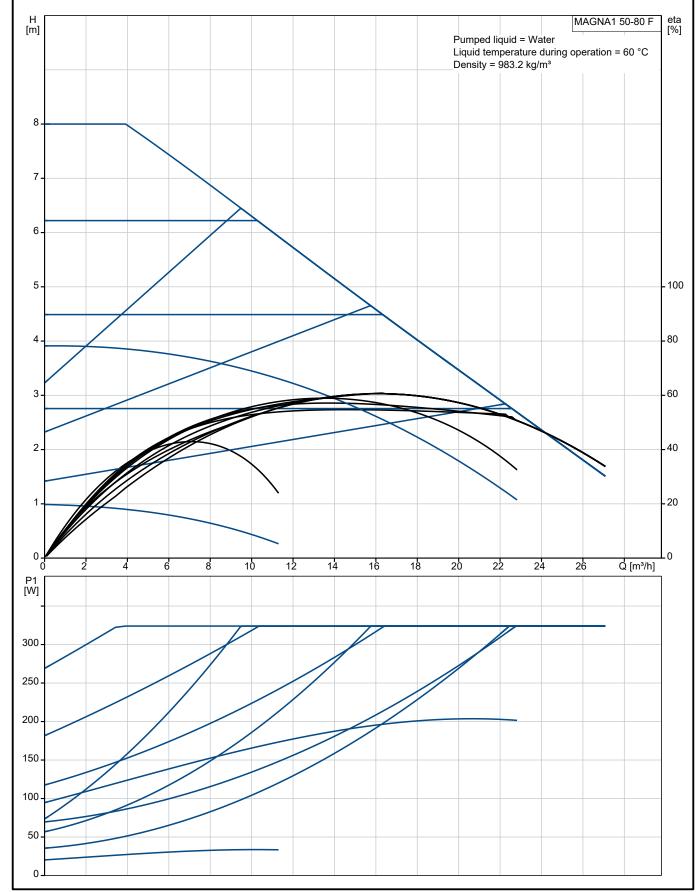
The power electronics are air-cooled.

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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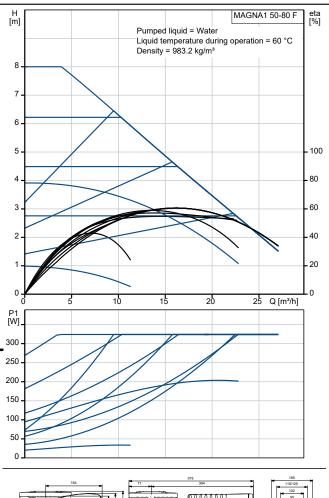
On request MAGNA1 50-80 F

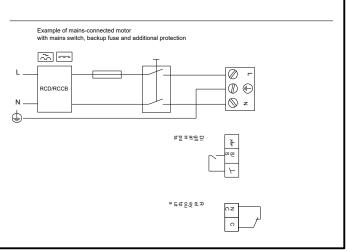




Date: 25/09/2022

Description	Value
General information:	
Product name:	MAGNA1 50-80 F
Product No:	On request
EAN number:	On request
Technical:	
Head max:	80 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:	10 bar
Flange standard:	DIN
Pipe connection:	DN 50
Pressure rating:	PN 6/10
Port-to-port length:	240 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:	20.91 331 W
Mains frequency:	50 / 60 Hz
Rated voltage [V]:	1 x 230 V
Maximum current consumption:	0.22 1.48 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.20
Environmental approvals:	CN ROHS,WEEE
Net weight:	17.4 kg
Gross weight:	19.6 kg
Shipping volume:	0.046 m³
Finnish LVI No.:	4615194
Country of origin:	DE
Custom tariff no.:	84137030

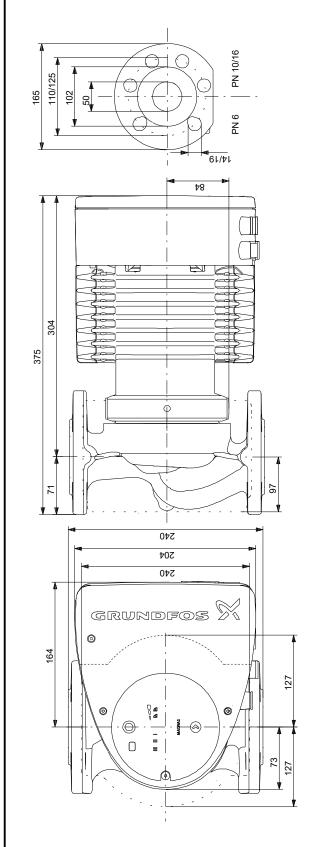






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On request MAGNA1 50-80 F

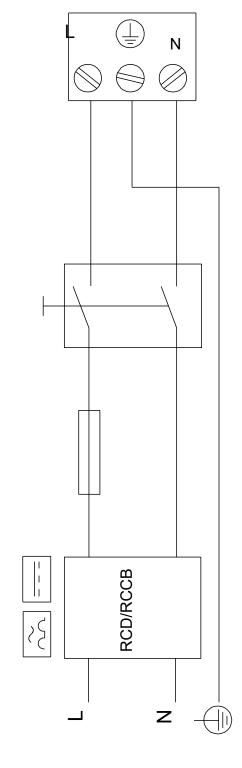


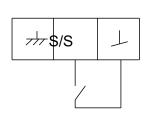
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



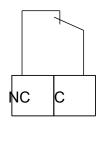
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Digital inputs



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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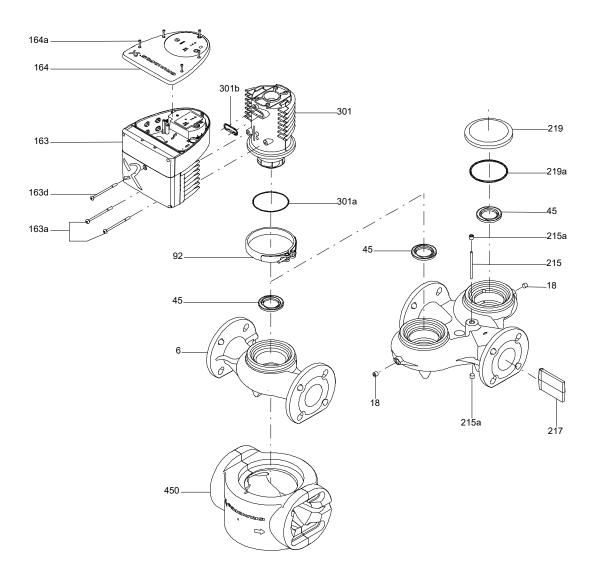
Order Data:

Position	Order Data:							
Position	Your pos.	Product name	Amount		Total			
		MAGNA1 50-80 F	1	On request	Price on request			
		7, 70000, 40, 0401						



Date: 25/09/2022

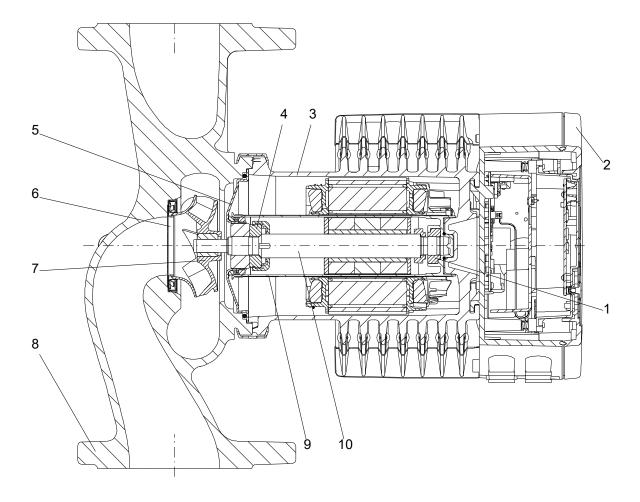
(TM054005 for Magna1 750-1600W)





Date: 25/09/2022

(TM069997 Magna1 ME/LA model C)





Date: 25/09/2022

Spare parts MAGNA1 50-80 F, Product No. On request Produced After 1731 (production year and week number)

Pos	Description	Annotation	Classification Data	Part no.	Qty	у.	Unit
	Kit, Control box configured			99426892	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			98148743	1		pcs
92	Clamp cpl.					1	
301	Pump head					1	
	Stator w/housing cpl.						
301	Stator housing						
303	Rotor can cpl.						
304	Shaft w/impeller cpl.						
004-	Bearing plate cpl.						
301a	O-ring			00440750	_		
92	Spare, Clamp			98148759	1	1	pcs
92	Clamp cpl.			98148761	1	1	
301a	Spare, O-ring			90140/01	ı	1	pcs
	O-ring			00704074	1	ı	200
450	Pump housing cpl.			92721974 98159367	1		pcs
450	Insulation			98159367	1		pcs