

Submittal Data

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

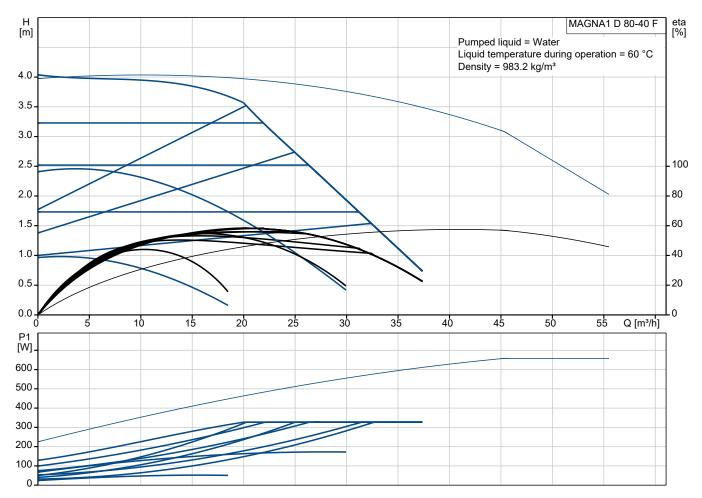
MAGNA1 D 80-40 F



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.

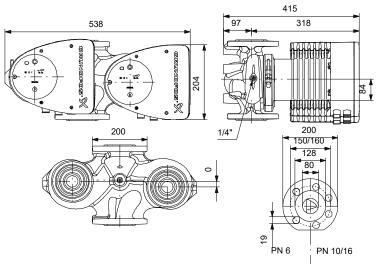
Note! Product picture may differ from actual product

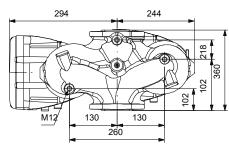
Conditions of Service		Pump Data	Motor Data			
Liquid: Temperature:	Water 60 °C	Maximum operating pressure: Liquid temperature range:	6 bar -10 110 °C	P1 max: Mains frequency:	25.3 333 W 50 / 60 Hz	
Specific Gravity:	0.985	Maximum ambient temperature:	40 °C	Enclosure class:	X4D	
		Flange standard: Pipe connection:	DIN DN 80	Insulation class:	F	
		Product number:	On request			





Submittal Data

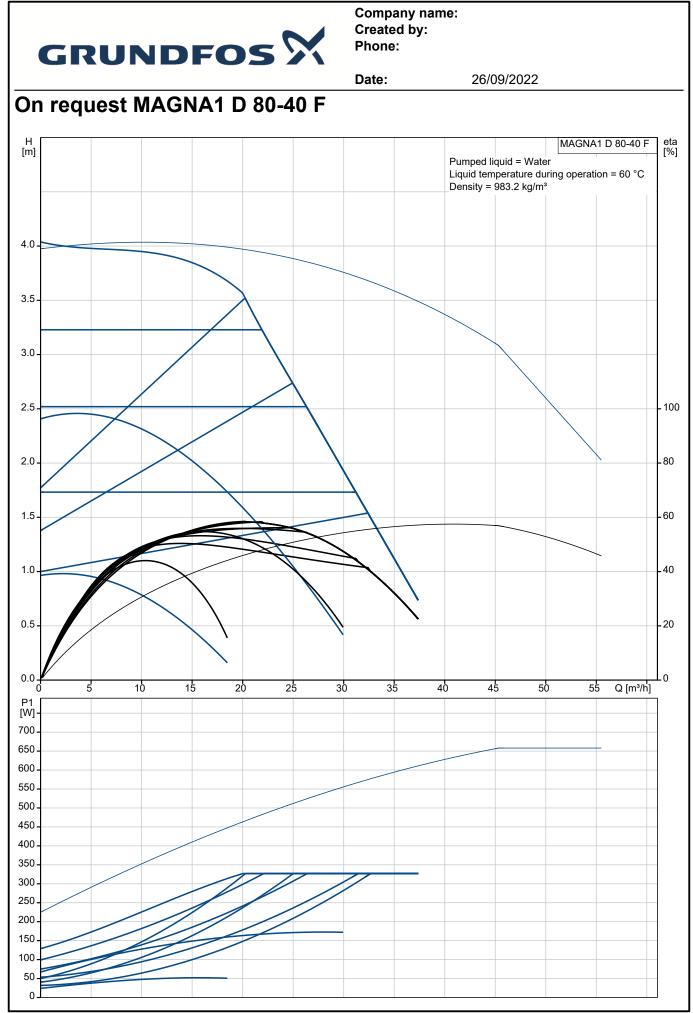




Materials:

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

		Company		
		Created t Phone:	by:	
	GRUNDFOS 🕅	i none.		
		Date:		26/09/2022
Qty.	Description			
1	MAGNA1 D 80-40 F			
	and the second sec			
	CRUNDFOS X			
	Note! Product picture	may differ from	actual pro	duct
	Product No.: On request	may unter from	i actuai pro	uuci
	The Grundfos MAGNA1 D circulator pump is the simple With its high energy efficiency the product lives up to the electricity, and with its intuitive, user-friendly interface a pump for basic performance needs in applications wher	e EuP 2015 nd maintena	regulatior nce-free o	ns ensuring substantial savings on design, MAGNA1 D is the ideal circulator
	With this range of circulator pumps, everything from set	up to basic o		-
	is maintenance-free due to the canned-rotor type design MAGNA1 D offers peace of mind due to the security of		ned by ha	ving a redundant pump, resulting in
	improved uptime. The flow, and thereby constant comfor between pump heads if one breaks down. The two pum	ort, is secure ips communi	d because cate wire	e of its ability to automatically switch lessly.
	MAGNA1 D offers the possibility of monitoring the pump controls the pump. The pump communicates wirelessly communicate via radio.	o via the faul with the Gru	t relay ou indfos GC	tput. The digital start/stop input remotely Remote app and can also
	MAGNA1 D can work as main pump in both heating and	d cooling app	olications,	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 l control box.	by having the	e controlle	er and operating panel integrated in the
	The pump housing is available in both cast-iron and sta The composite rotor can is carbon-fibre reinforced, the and the stator housing is made of aluminium.			r cladding are made of stainless steel
	The power electronics are air-cooled.			
	The pump incorporates a 4-pole synchronous, permane by higher efficiency than a conventional asynchronous integrated frequency converter.	ent-magnet n squirrel-cage	notor (PM e motor. T	motor). This motor type is characterised he pump speed is controlled by an





eta [%]

100

- 80

- 60

40

20

0

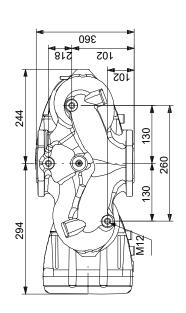
		Date:	26/09/2022
Description	Value	H [m]	MAGNA1 D 80-40 F
General information:		-	Pumped liquid = Water Liquid temperature during operation = 60 °C
Product name:	MAGNA1 D 80-40 F	-	Density = 983.2 kg/m^3
Product No:	On request	4.0	
EAN number:	On request	-	
Technical:	· · · · · · · · · · · · · · · · · · ·	3.5 -	
Head max:	40 dm	-	
TF class:	110	3.0	
Approvals:	CE,VDE,EAC,MOROCCO,UKCA, TSERCM,UkrSEPRO	2.5	
Model:	С		
Materials:		2.0	
Pump housing:	Cast iron		
Pump housing:	EN-GJL-250	1.5	
Pump housing:	ASTM A48-250B	1.0	
Impeller:	PES 30%GF	1.0	\times
Installation:		0.5	
Range of ambient temperature:	0 40 °C		
Maximum operating pressure:	6 bar	0.0	
Flange standard:	DIN	- <u>0 5</u> 10	15 20 25 30 35 40 45 50 Q'[m³/l
Pipe connection:	DN 80	P1 [W]	
Pressure rating:	PN 6	-	
Port-to-port length:	360 mm	- 600 -	
Liquid:		500 -	
Pumped liquid:	Water	400 -	
Liquid temperature range:	-10 110 °C	300 -	
Selected liquid temperature:	60 °C		
Density:	983.2 kg/m ³	200	
Electrical data:	č	100	
Power input - P1:	25.3 333 W	0	
Mains frequency:	50 / 60 Hz		
Rated voltage [V]:	1 x 230 V	538	415 97 318 294 244
Maximum current consumption:	0.27 1.49 A	FIB	
Enclosure class (IEC 34-5):	X4D		
Insulation class (IEC 85):	F		
Others:	-	201	200 <u>M12</u> 130 130 TSUTED <u>1/4"</u> 2260
Energy (EEI):	0.21		
Environmental approvals:	CN ROHS,WEEE		
Net weight:	47.3 kg		
Gross weight:	54.9 kg		1
Shipping volume:	0.207 m ³		
Country of origin:	DE		
Custom tariff no.:	84137030		
		Example of mains	-connected motor
			backup fuse and additional protection
		~~	T
		L	
		RCD/RCCB	
		N	
		~	
			않 얻 프 프 원 전
			└ <u></u>

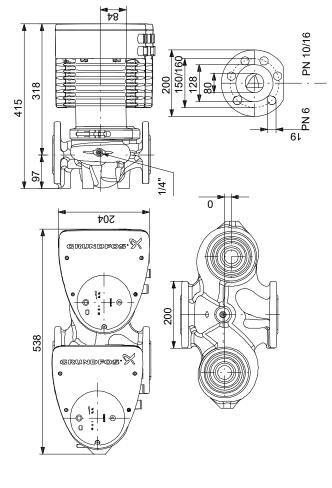
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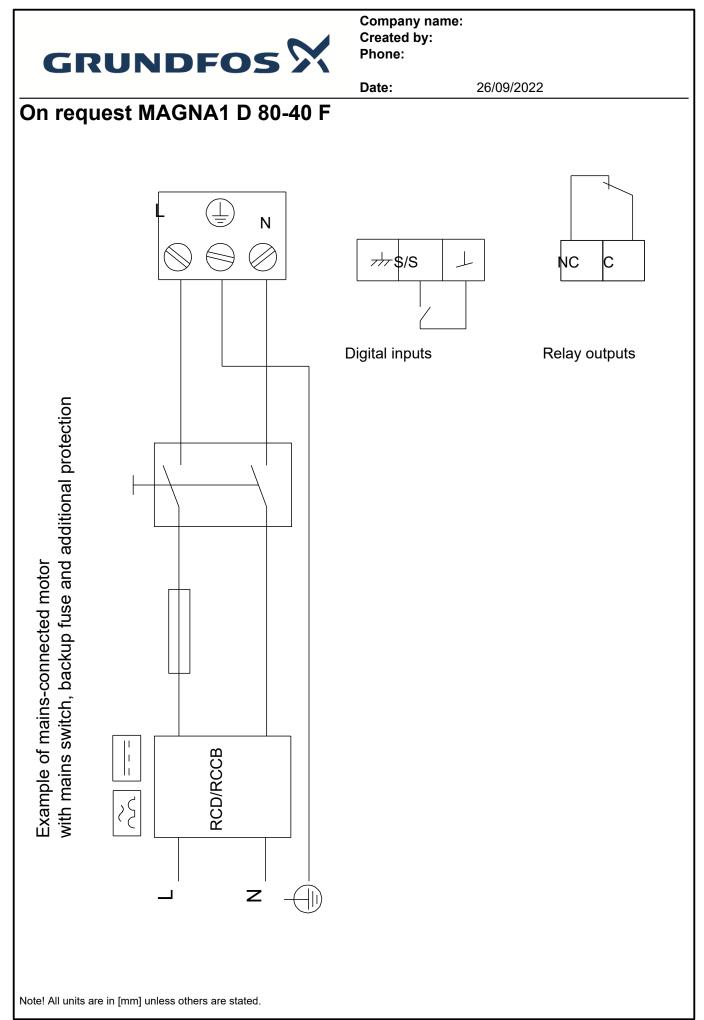
26/09/2022

On request MAGNA1 D 80-40 F





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





Position

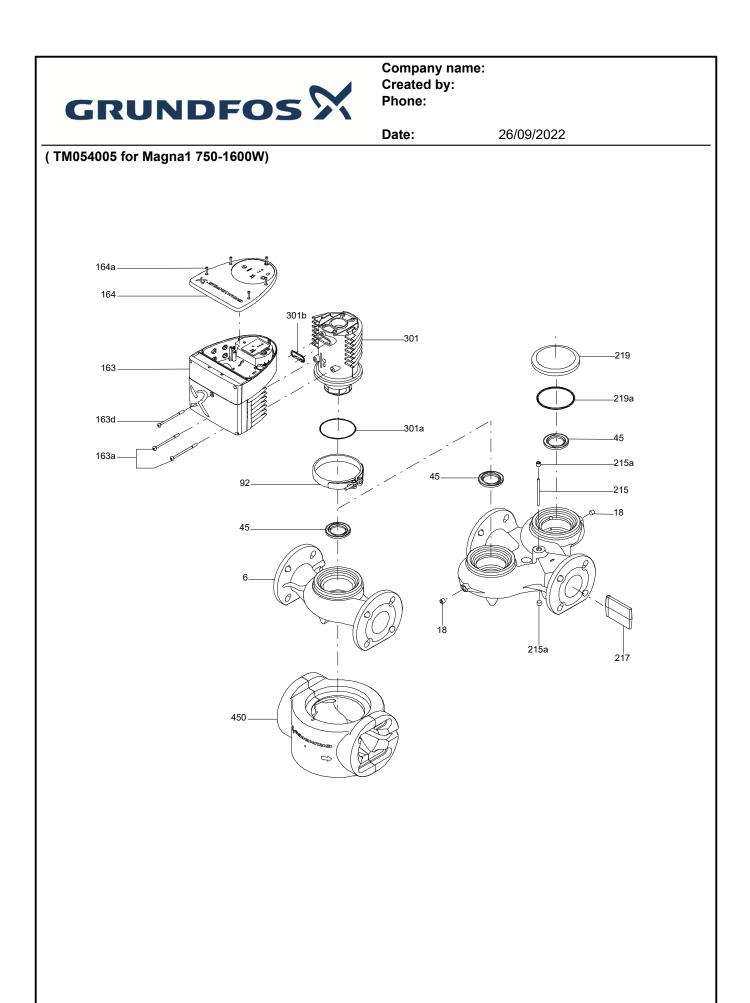
Company name: Created by: Phone:

 Date: 26/09/2022

 Order Data:

 Your pos.
 Product name
 Amount
 Product No
 Total

 MAGNA1 D 80-40 F
 1
 On request
 Price on request

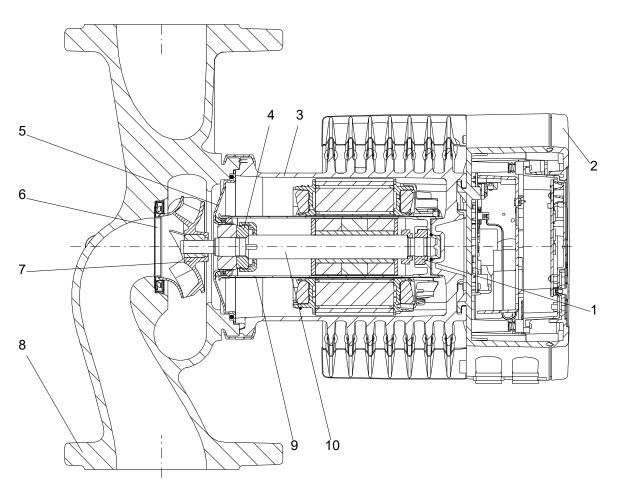




Date:

26/09/2022

(TM069997 Magna1 ME/LA model C)





26/09/2022

Spare parts MAGNA1 D 80-40 F, Product No. On request Produced After 1731 (production year and week number)

Pos	Description	Annotation	Classification Data	Part no.	Qty	/. Unit
-	Kit, Control box conf. Head I			99427006	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, Control box conf. Head II			99427074	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.				-	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, Valve flap			96407257	1	pcs
215	Guide pin				-	1
217	Valve flap					1
	Spare, Clamp			98148759	1	pcs
92	Clamp cpl.			551 101 00	•	1
	Spare, O-ring			98148761	1	pcs
301a	O-ring			551 10101	•	1
	Pump housing cpl.			98660074	1	pcs
18	Pipe plug			965476		•
45	Neck ring cpl.			905470		
40				99244	94	2