Qty.	Description
1	**MAGNA3 65-120 F**

Note! Product picture may differ from actual product

Product No.:   97924298

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

MAGNA3 model E has Bluetooth, which allows you to connect directly to Grundfos Go app on your smart phone without any need for a dongle.

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.

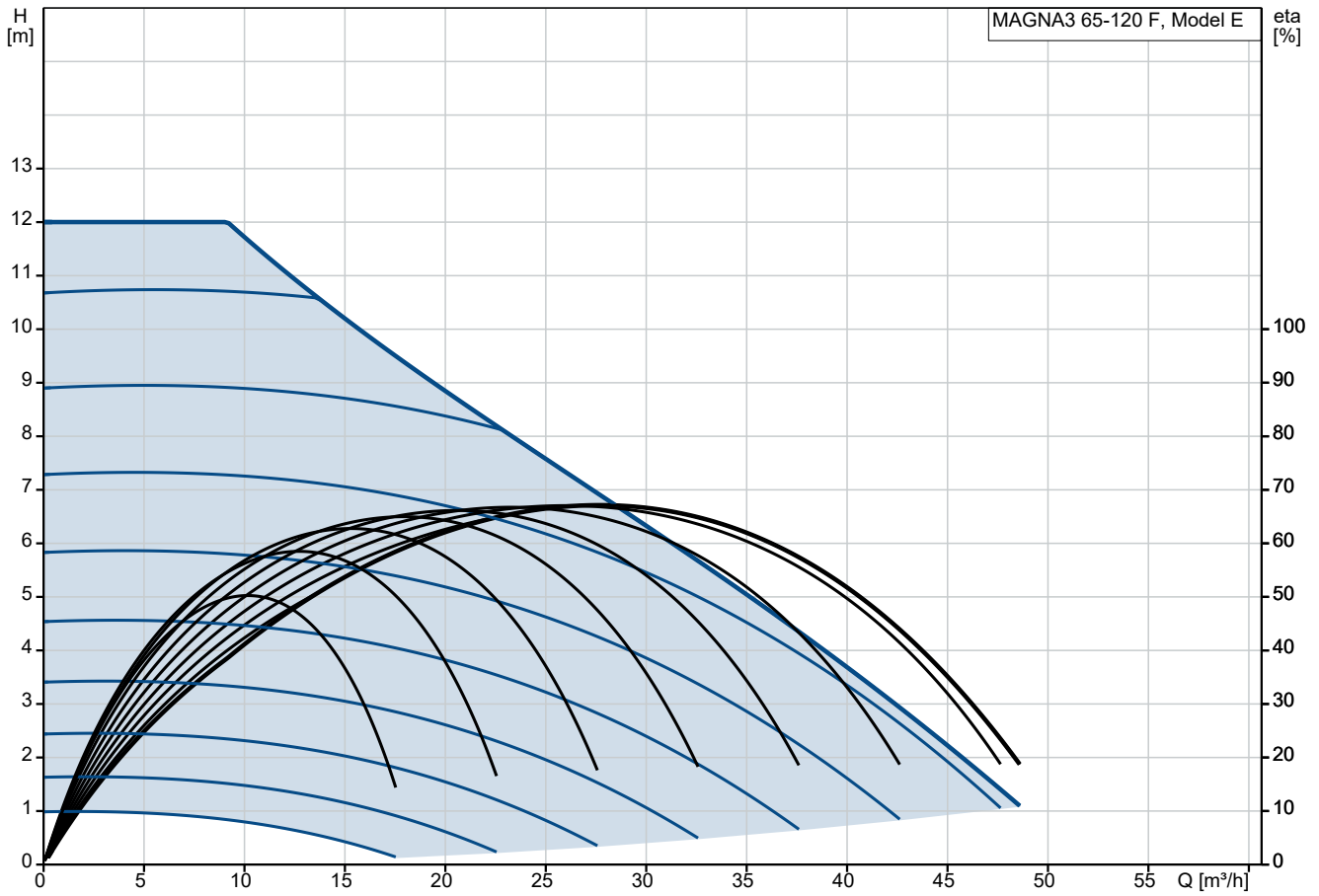MAGNA3 is the superior choice for a wide range of heating and cooling applications, including:

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

MAGNA3 is a single-phase pump and characterised by having the controller and control display integrated in the control box. The pump also has a built-in differential-pressure and temperature sensor.
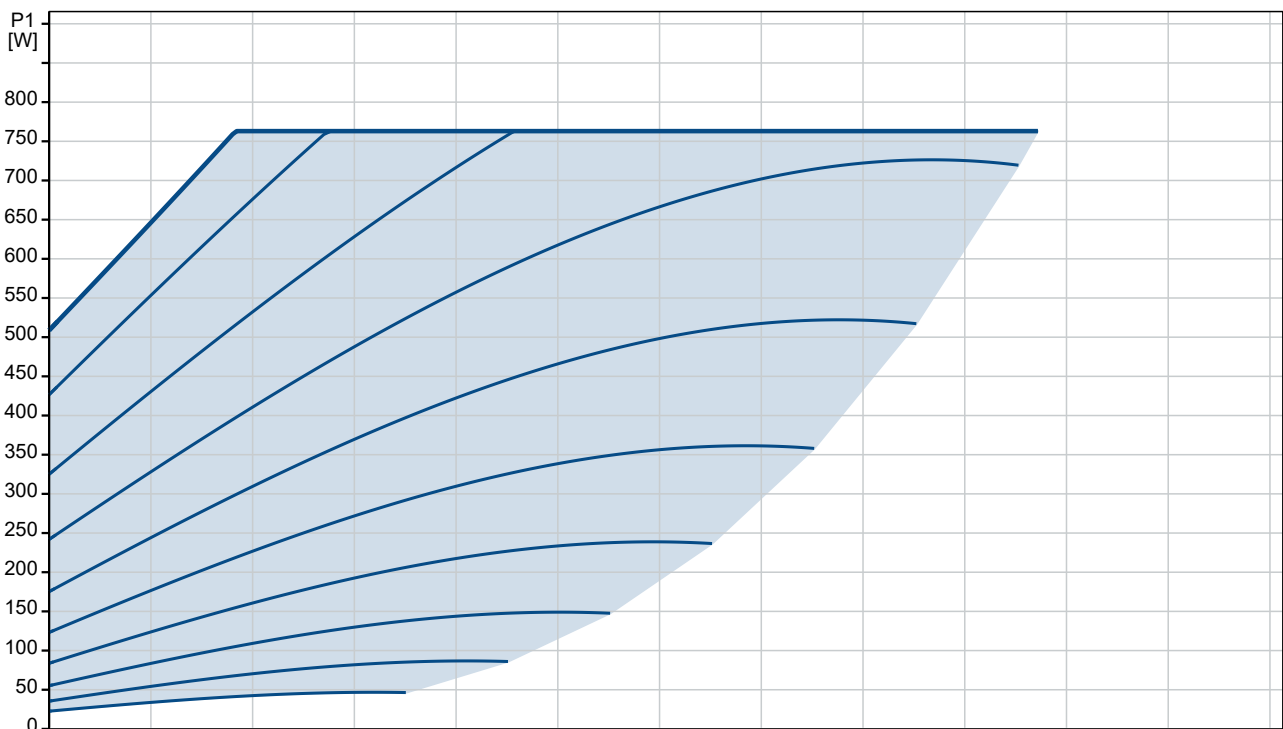
The pump housing is available in both cast-iron and stainless-steel versions. The composite rotor can is carbon-fibre reinforced, the bearing plate and rotor cladding are made of stainless steel and the stator housing is made of aluminium. The power electronics are air-cooled.

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.
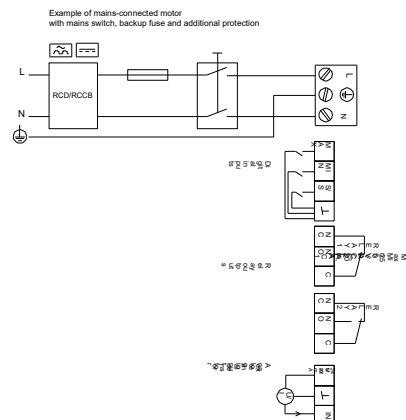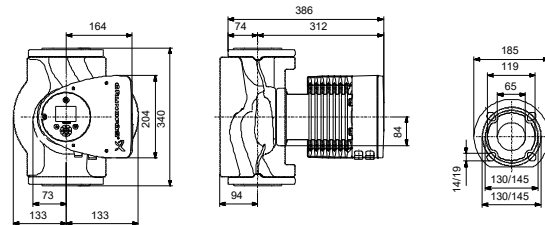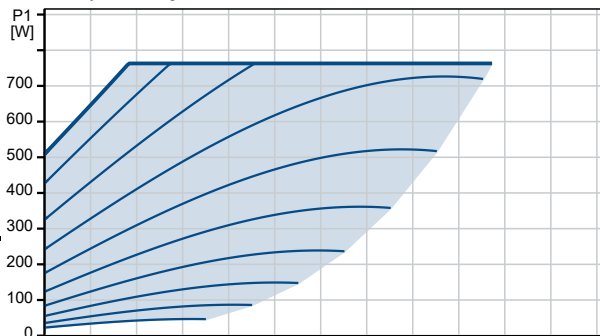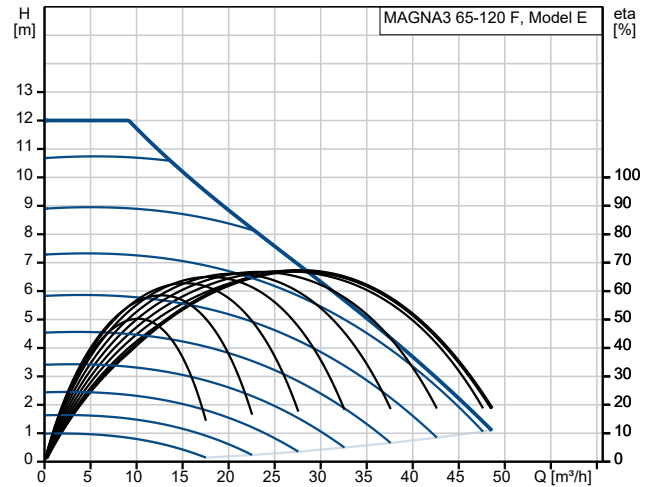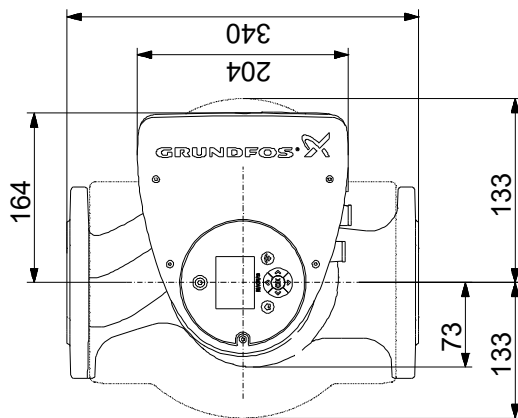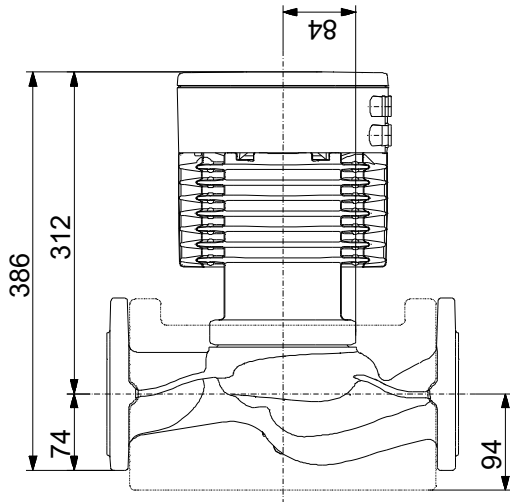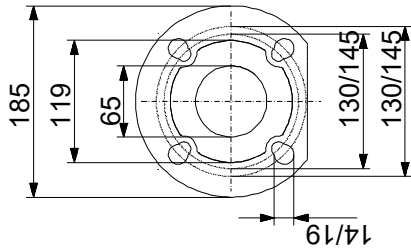
97924298 MAGNA3 65-120 F

MAGNA3 65-120 F, Model E

Pumped liquid = Water
Liquid temperature during operation = 60 °C
Density = 983.2 kg/m³

Description	Value
General information:	
Product name:	MAGNA3 65-120 F
Product No:	97924298
EAN number:	5710626493739
Technical:	
Rated flow:	25.76 m³/h
Rated head:	7.388 m
Maximum head:	120 dm
TF class:	110
Approvals:	CE,VDE,EAC,MOROCCO,UKCA, TSE,RCM,UkrSEPRO
Model:	E
Materials:	
Pump housing:	Cast iron
Pump housing:	EN 1561 EN-GJL-250
Pump housing:	ASTM A48-250B
Impeller:	Composite
Installation:	
Range of ambient temperature:	0 .. 40 °C
Maximum operating pressure:	10 bar
Type of connection:	DIN
Size of connection:	DN 65
Pressure rating for connection:	PN 6/10
Port-to-port length:	340 mm
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-10 .. 110 °C
Selected liquid temperature:	60 °C
Density:	983.2 kg/m³
Electrical data:	
Maximum power input - P1:	763 W
P1 min.:	16 W
Mains frequency:	50 / 60 Hz
Rated voltage:	1 x 230 V
Minimum current consumption:	0.18 A
Maximum current consumption:	3.45 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.17
Net weight:	21.5 kg
Gross weight:	23.7 kg
Shipping volume:	0.057 m³
Danish VVS No.:	380954612
Swedish RSK No.:	5732503
Finnish LVI No.:	4615162
Norwegian NRF no.:	9042691
Country of origin:	DE
Custom tariff no.:	84137030
Environmental approvals:	CN ROHS,WEEE

Pumped liquid = Water
Liquid temperature during operation = 60 °C
Density = 983.2 kg/m³

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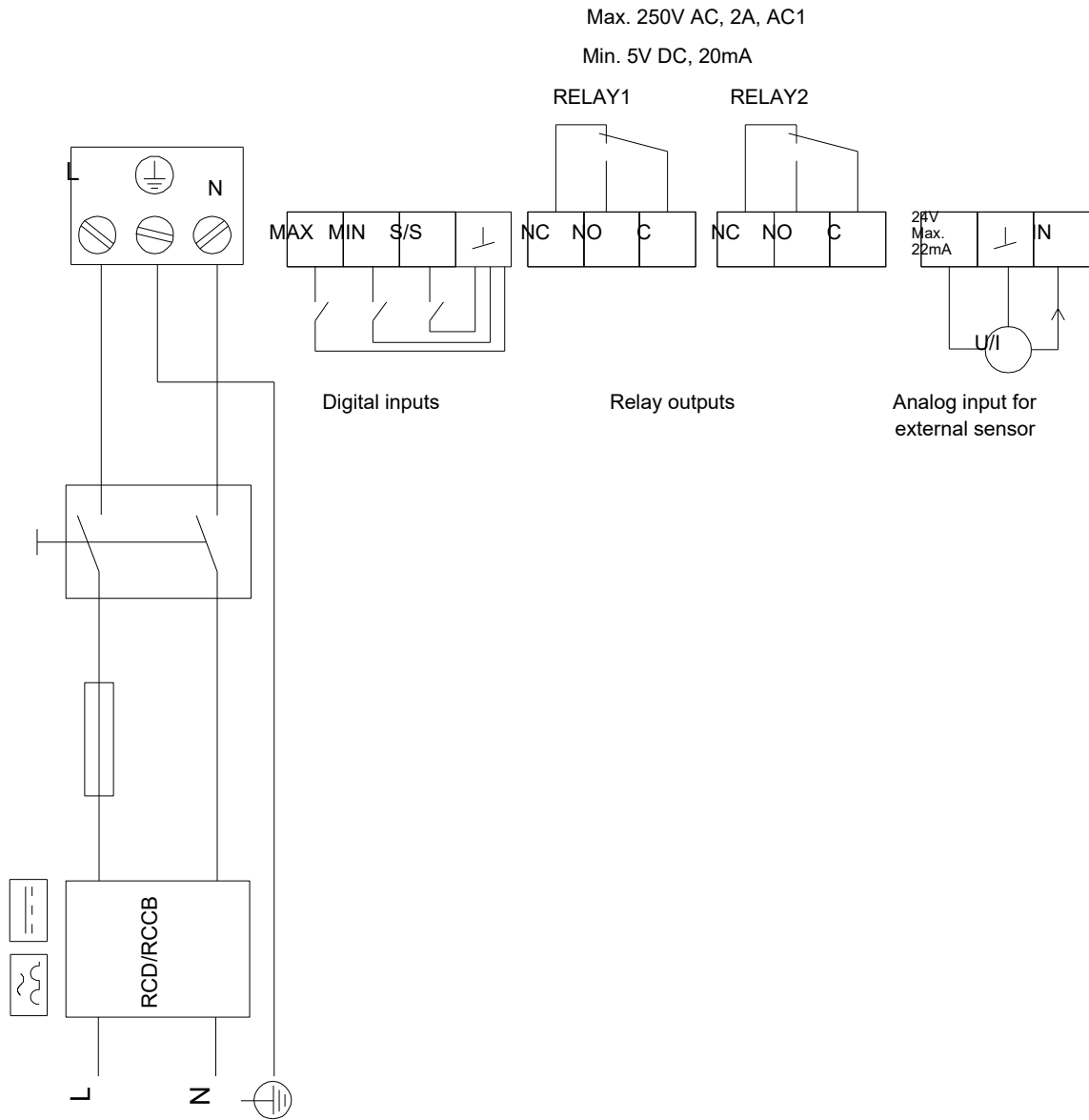with mains switch, backup fuse and additional protection

97924298 MAGNA3 65-120 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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97924298 MAGNA3 65-120 F

Max. 250V AC, 2A, AC1

Min. 5V DC, 20mA

RELAY1   RELAY2

| MAX | MIN | S/S | ⊥ | NC | NO | C | NC | NO | C | 24V Max. 22mA | ⊥ | N |

Digital inputs

Relay outputs

Analog input for external sensor

U/I

L   ⏚   N

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

RCD/RCCB

L   N   ⏚

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