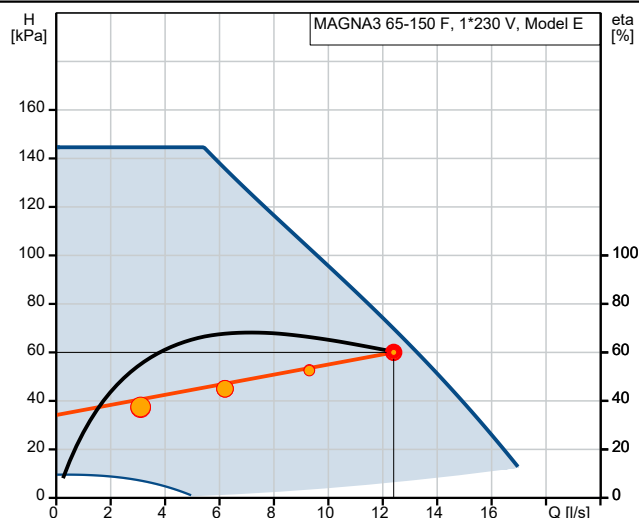
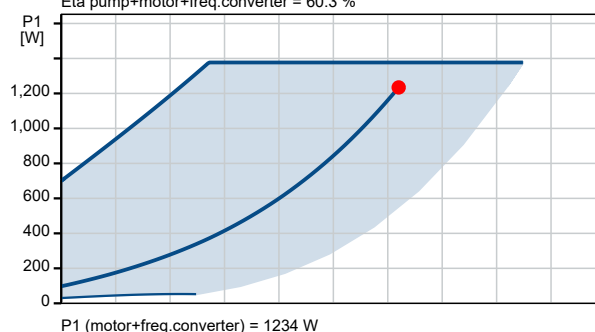


Qty.	Description
1	MAGNA3 65-150 F  Note! Product picture may differ from actual product Product No.: 97924299 The Grundfos MAGNA3 circulator pump is the ideal choice for almost any building project – old or new. With its unrivalled energy efficiency, all-encompassing range and built-in communication 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 the Grundfos GO app on your smart phone without any need for a dongle. The pump includes fieldbus communication via CIM modules as well as analogue and digital inputs and configurable relays. Control features include AUTOADAPT and FLOWADAPT. FLOWADAPT 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 • small chiller applications. MAGNA3 is a single-phase pump characterised by the controller and control display being 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.

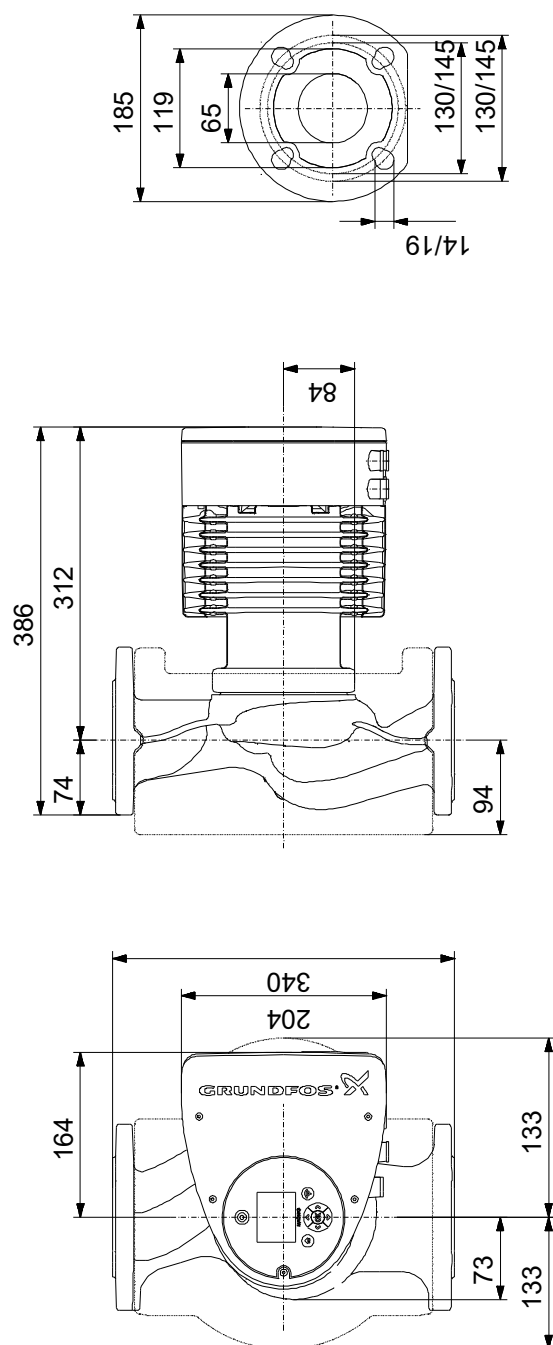
Description	Value
General information:	
Product name:	MAGNA3 65-150 F
Product No:	97924299
EAN number:	5710626493746
Technical:	
Pump speed on which pump data are based:	3693 rpm
Actual calculated flow:	12.4 l/s
Resulting head of the pump:	60.01 kPa
Maximum head:	150 dm
TF class:	110
Approvals:	CE,VDE,EAC,MOROCCO,UKCA,TSE,RCM,UkrSEPRO
Model:	E
Materials:	
Pump housing:	Cast iron
	EN 1561 EN-GJL-250
	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:	Heating water
Liquid temperature range:	-10 .. 110 °C
Selected liquid temperature:	70 °C
Density:	977.8 kg/m ³
Electrical data:	
Maximum power input - P1:	1377 W
P1 min.:	29 W
Mains frequency:	50 / 60 Hz
Rated voltage:	1 x 230 V
Minimum current consumption:	0.3 A
Maximum current consumption:	6.18 A
Maximum speed:	4440 rpm
Enclosure class (IEC 34-5):	IPX4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.17
Net weight:	22.7 kg
Gross weight:	26.1 kg
Shipping volume:	0.057 m ³
Danish VVS No.:	380954615
Swedish RSK No.:	5732504
Finnish LVI No.:	4615163
Norwegian NRF no.:	9042692
Environmental approvals:	CN ROHS,WEEE



Q = 12.4 l/s
 n = 84 % / 3693 rpm
 Density = 977.8 kg/m³
 Liquid temperature during operation = 70 °C
 Eta pump+motor+freq.converter = 60.3 %



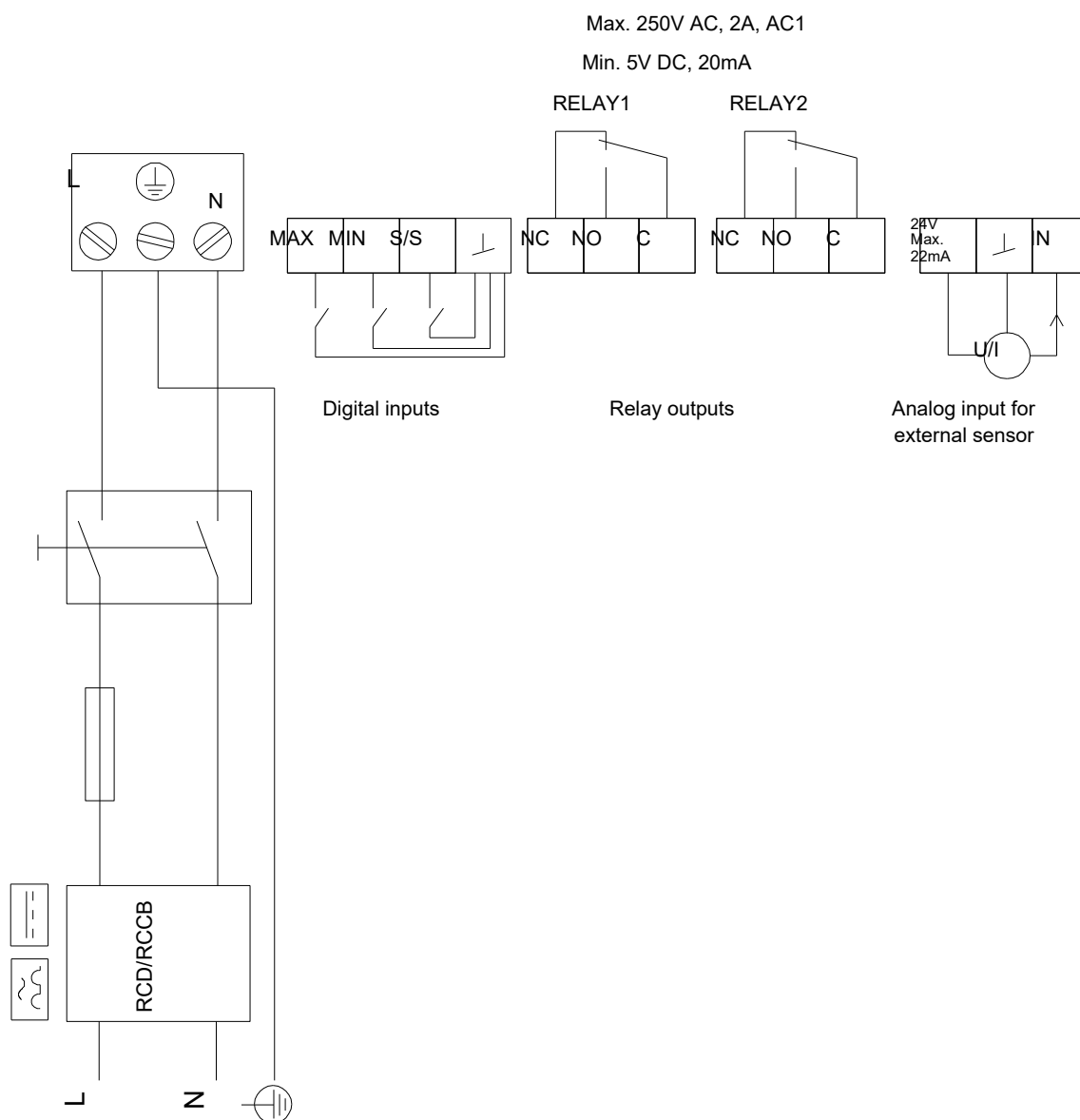
97924299 MAGNA3 65-150 F



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

97924299 MAGNA3 65-150 F

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



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

97924299 MAGNA3 65-150 F

Input

Size by
Select application area
Select application
Select type of installation

Application
Commercial buildings
Commercial heating
Main circulator pump - commercial building

Flow (Q) 12.4 l/s
Head (H) 60 kPa
BMS connectivity Yes
Evaluation criterion Duty point deviation
Prefer fast delivery No

Your requirements

Pumped liquid Heating water
Min. liquid temperature 40 °C
Max. liquid temperature 80 °C
Liquid temperature during operation 70 °C
Max. operation pressure 10 bar
Min. inlet pressure 0.5 bar
AllowUnderDim 0 %

Control mode

Control mode Prop. pressure
Decrease at low flow 50 %
Pumps with external frequency converter Both 50 Hz and 60 Hz
Enclosure class IP20
Cabinet wanted No
Allow fixed speed No
Remote controlled by external controller No

Edit load profile

Load profile Standard profile
Heating season 285 days
Reduced night-time duty No

Configuration

Preferred design Pumps
Select type of hydraulic Single

Pump design

Pump material Cast iron or stainless steel
Inline canned rotor Yes
Air separator No
Inline multistage Yes
Include alternative variants Yes
Inline single stage Yes
End-suction long-coupled Yes
End-suction close coupled Yes
End-suction close coupled horizontal multistage Yes
Horizontal splitcase Yes

Operational conditions

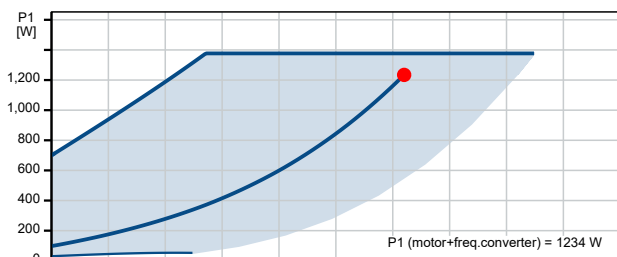
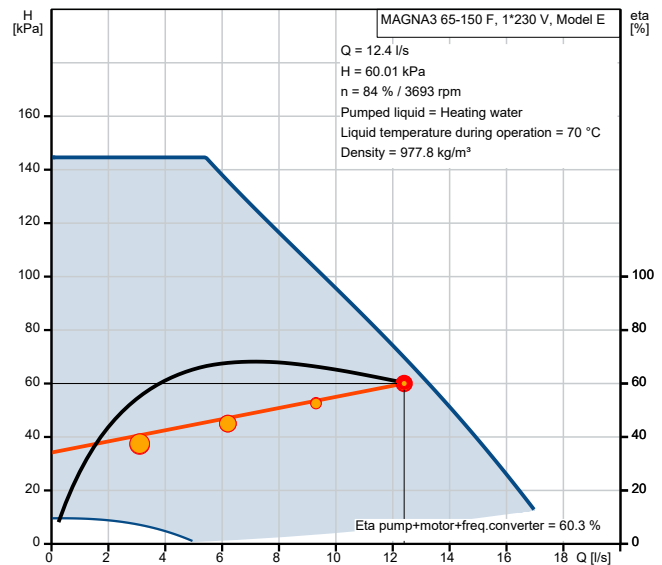
Frequency 50 Hz
Phase 1 or 3
Min. power limit for SD start 5.5 kW
Voltage 1 x 230 or 3 x 400 V
Ambient temperature 20 °C

Life cycle cost

Do you want to make a comparison? No comparison
Include savings in heat energy No
How detailed do you want your life cycle cost analysis? Simple LCC analysis
Pump A

Sizing result

Type MAGNA3 65-150 F
Quantity 1
Motor
Flow 12.4 l/s
Head 60.01 kPa
Min.inlet pressure 0.48 bar (80 °C, against atmosphere)
Power P1 1.234 kW
Eta pump+motor 60.3 % =Eta pump * Eta motor
Eta total 60.3 % =Eta relative to the duty point
Energy consumption 2881 kWh/year
CO2 emission 1420 kg/Year
Price On request
Life cycle cost 28059 EUR /15Years





Company name:

Created by:

Phone:

Date:

05/05/2026

Hit list settings

Include cheapest solution	Yes
Max. hits per product group	2
Max. hits total	8
Energy price	0.32 EUR/kWh
Increase of energy price	6 %
CO2 emission intensity	0.49 kg/kWh
Calculation period	15 years

Load Profile

	1	2	3	4
Flow (%)	25	50	75	100
Flow (l/s)	3.1	6.2	9.3	12.4
Head (%)	63	75	88	100
Head (kPa)	37.5	45	52.51	60.01
P1 (kW)	0.209	0.413	0.739	1.234
Eta total (%)	55.6	67.7	66.1	60.3
Time (h/a)	3010	2394	1026	410
Energy consumption (kWh/Year)	630	988	758	506
Quantity	1	1	1	1