| | |
|---|---|
| **Company name:** | national pumps and boilers |
| **Created by:** | |
| **Phone:** | 01539 729395 |
| **Email:** | info@nationlapumpsandboilers.co.uk |
| **Date:** | 28/12/2023 |

| | | |
|---|---|---|
| **Project:** | **Client:** | |
| **Reference Number:** | **Client Number:** | |
| | **Contact:** | |

| Qty. | Description |
|---|---|
| 1 | **MAGNA1 65-80 F N** |



**Note! Product picture may differ from actual product**

Product No.:   99221396

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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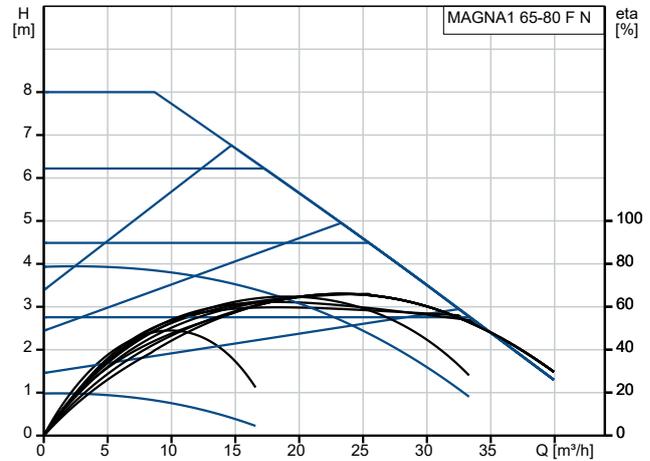
**Project:**
**Reference Number:**

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# 99221396 MAGNA1 65-80 F N



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

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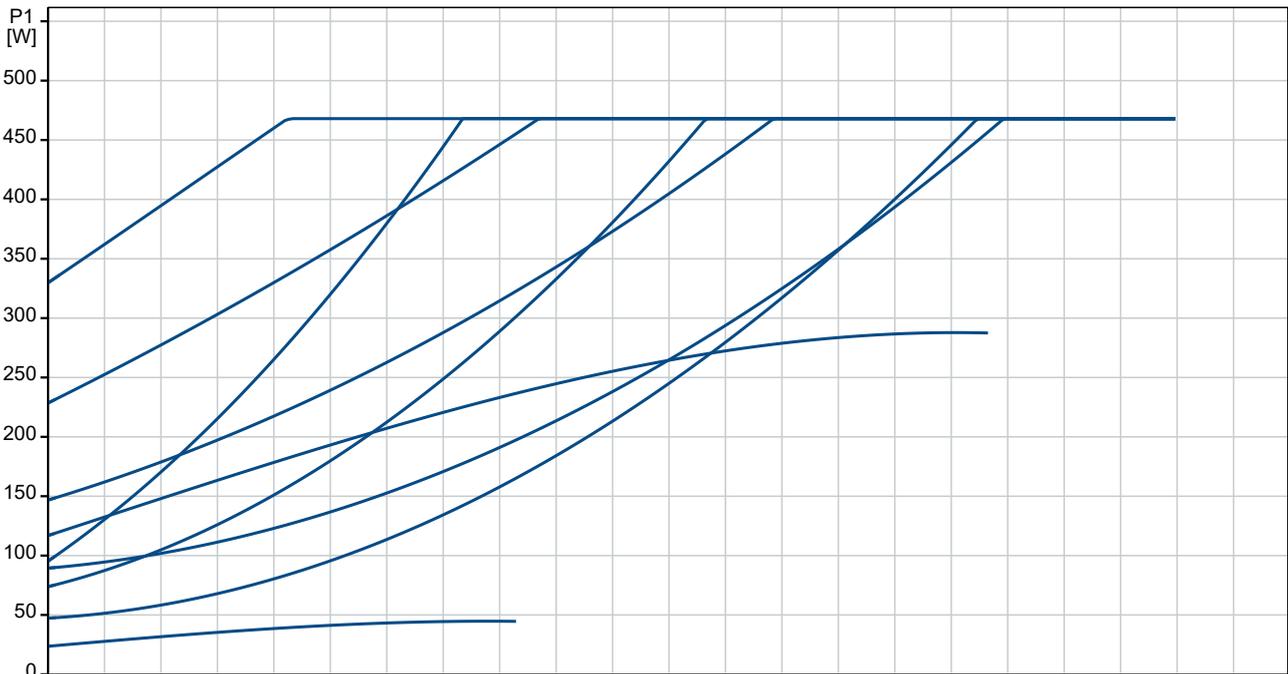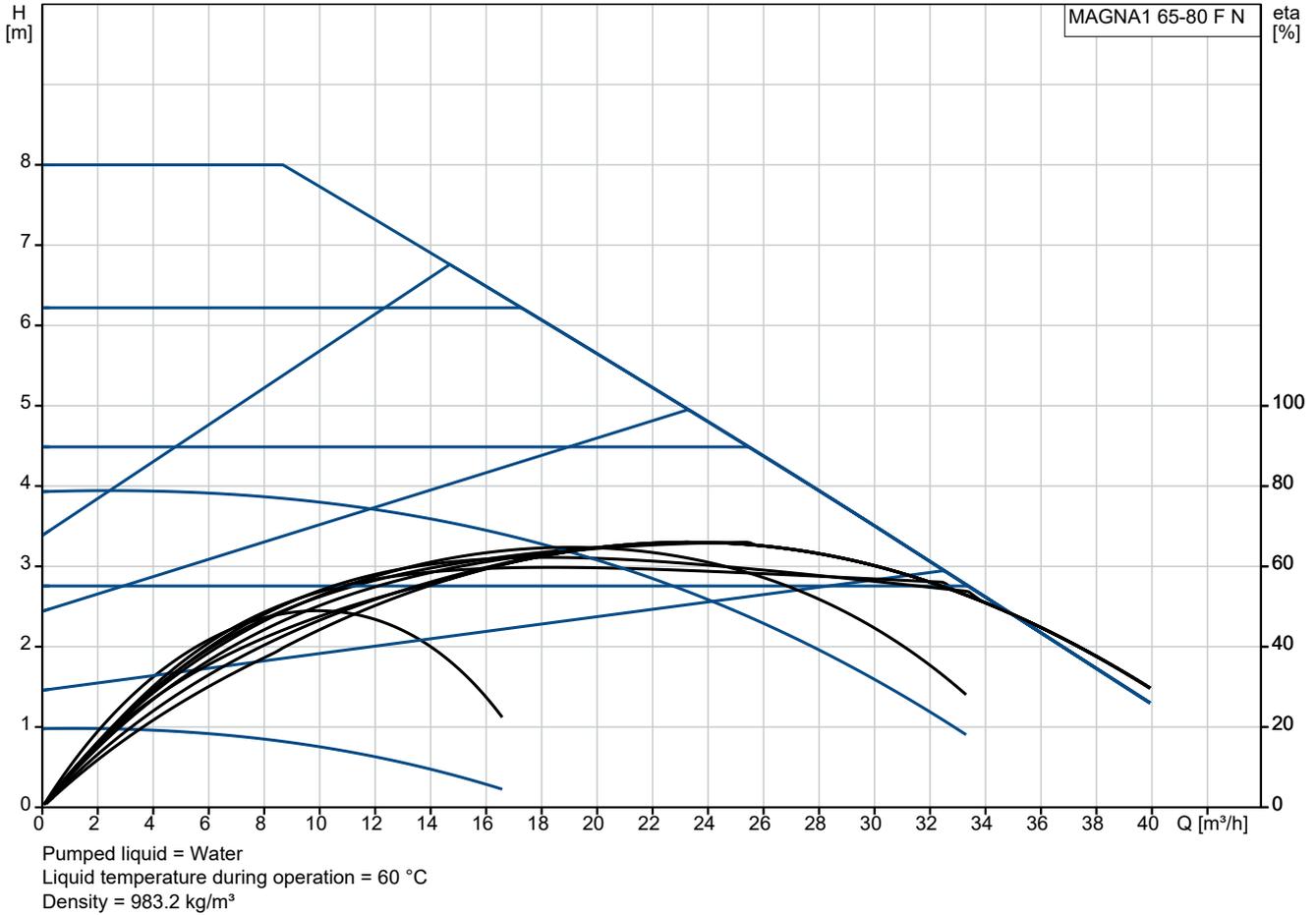
**Project:**
**Reference Number:**

**Client:**
**Client Number:**
**Contact:**

| Description | Value |
|---|---|
| **General information:** | |
| Product name: | MAGNA1 65-80 F N |
| Product No: | 99221396 |
| EAN number: | 5712608943683 |
| **Technical:** | |
| Maximum head: | 80 dm |
| TF class: | 110 |
| Approvals: | CE,VDE,EAC,MOROCCO,UKCA, TSE,RCM,UkrSEPRO |
| Approvals for drinking water: | WRAS, ACS, UBA |
| Model: | C |
| **Materials:** | |
| Pump housing: | Stainless steel |
| Pump housing: | EN 1.4308 |
| Pump housing: | ASTM A351-CF8 |
| 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: | 476 W |
| P1 min.: | 24.17 W |
| Mains frequency: | 50 / 60 Hz |
| Rated voltage: | 1 x 230 V |
| Minimum current consumption: | 0.26 A |
| Maximum current consumption: | 2.11 A |
| Enclosure class (IEC 34-5): | X4D |
| Insulation class (IEC 85): | F |
| **Others:** | |
| Energy (EEI): | 0.20 |
| Net weight: | 22.3 kg |
| Gross weight: | 24.6 kg |
| Shipping volume: | 0.057 m³ |
| Environmental approvals: | CN ROHS,WEEE |

Pumped liquid = Water
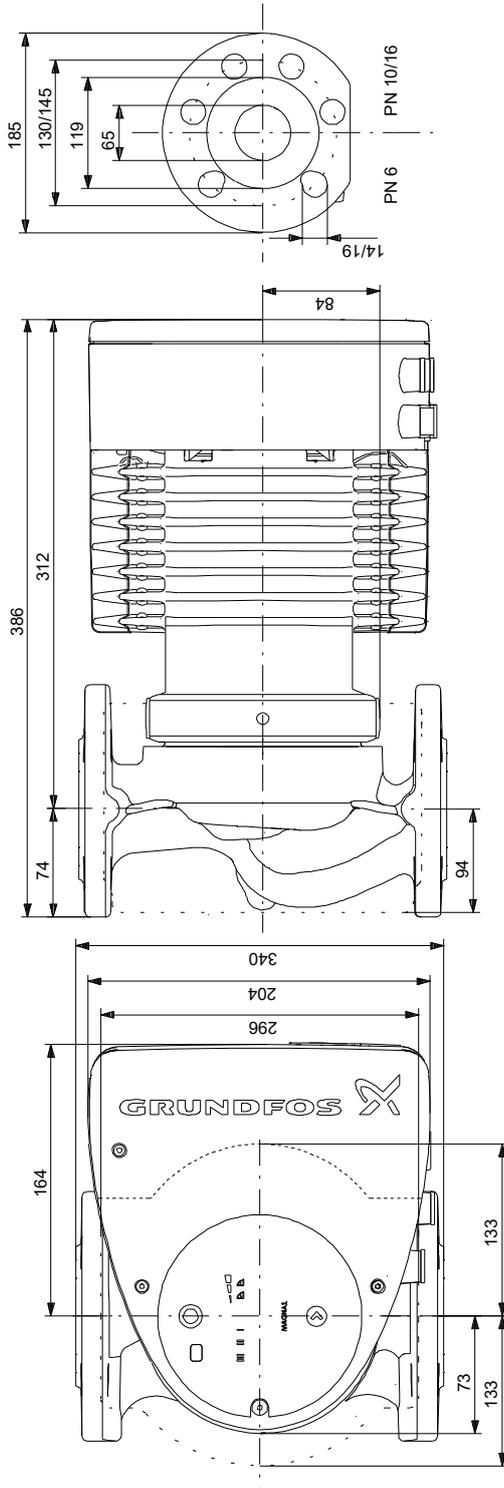Liquid temperature during operation = 60 °C
Density = 983.2 kg/m³
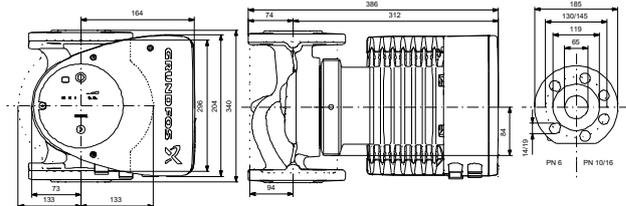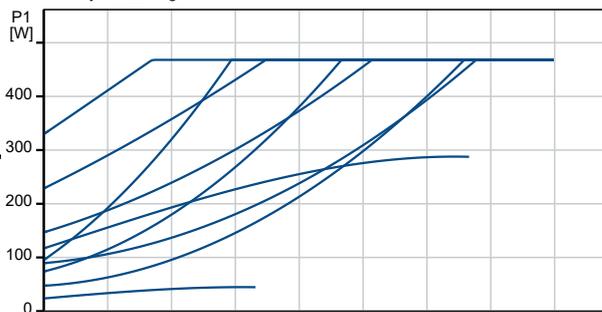
Example of mains-connected motor
with mains switch, backup fuse and additional protection
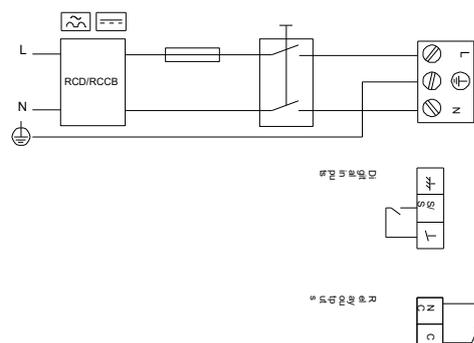
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# 99221396 MAGNA1 65-80 F N

PN 10/16

PN 6

185
130/145
119
65
14/19
84

386
312
74
94

340
204
296
164
133
73
133

GRUNDFOS

MAGNA1

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