

Submittal Data

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



MAGNA3 32-100 F

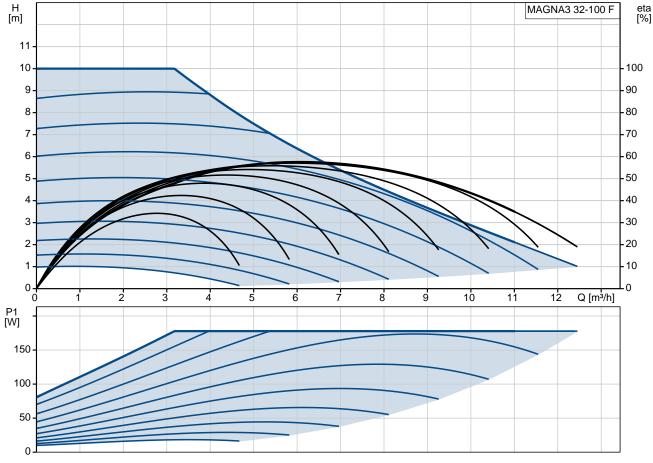
The newest high-end circulator solution, a large number of electronicly controlled operation features and by far exceeding the demands from the EuP directive.

Note! Product picture may differ from actual product

| Conditions of Service | | | | |
|-----------------------|-------|--|--|--|
| Flow: | | | | |
| Head: | | | | |
| Efficiency: | | | | |
| Liquid: | Water | | | |
| Temperature: | 60 °C | | | |
| NPSH required: | m | | | |
| Viscosity: | | | | |
| Specific Gravity: | 0.985 | | | |

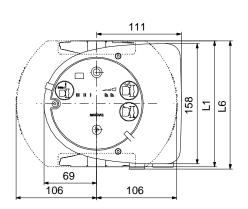
| Pump Data | | | | |
|------------------------------|----------------|--|--|--|
| Maximum operating pressure: | 12 bar | | | |
| Liquid temperature range: | -10 110 °C | | | |
| Maximum ambient temperature: | 40 °C | | | |
| Approvals: | ETL FCC 300DPI | | | |
| Flange standard: | GF | | | |
| Pipe connection: | GF15/26/40/43 | | | |
| Product number: | On request | | | |
| | | | | |

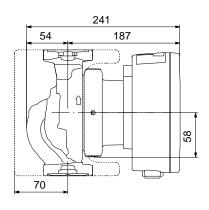
| Motor Data | | | | |
|-------------------|-----------|--|--|--|
| P1 max: | 9.7 178 W | | | |
| Rated voltage: | 115-230 V | | | |
| Mains frequency: | 60 Hz | | | |
| Enclosure class: | X4D | | | |
| Insulation class: | F | | | |
| | | | | |
| | | | | |
| | | | | |

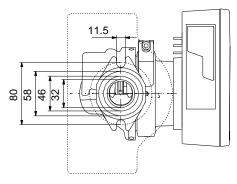




Submittal Data







Materials:

Pump housing: Cast iron

EN-GJL-250

ASTM A48-250B

Impeller: PES 30%GF



Date: 28/11/2017

Tender Text



Note! Product picture may differ from actual product

Product No.: On request MAGNA3 32-100 F

MAGNA3 - More than a pump

With its unrivalled efficiency, all-encompassing range and built-in communication capabilities plus functionalities replacing system components, the MAGNA3 is ideal for engineers and specifiers looking to create high-performance systems for buildings.

This pump in the Grundfos Master Class will fit both heating and cooling applications perfectly, making it the obvious choice for almost any building project – old or new.

The MAGNA3 is of the canned-rotor type, i.e. 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.

The innovative clamp with only one screw enables easy repositioning of the pump head.

The MAGNA3 is a pump with no maintenance requirements and with extremely low Life Cycle Cost.

The pump is characterised by the following:

- controller integrated in the control box
- control panel with TFT display on the control box
- control box prepared for optional CIM modules
- built-in differential-pressure and temperature sensor
- cast-iron pump housing (depending on model)
- carbon-fibre-reinforced composite rotor can
- stainless-steel bearing plate and rotor cladding
- · aluminium alloy stator housing
- · air-cooled power electronics

The MAGNA3 is a single-phase pump.

Characteristic features

- AUTOADAPT.
- FLOWADAPT and FLOWLIMIT (more than a pump function as it reduces the need for pump throttling valves).
- Proportional-pressure control.
- Constant-pressure control.
- Constant-temperature control.
- · Constant-curve duty.
- · Max. or min. curve duty.
- Automatic Night Setback.
- No external motor protection required.
- Insulating shells supplied with single-head pumps for heating systems.
- Large temperature range where the liquid temperature and the ambient temperature are independent of each other.

Communication

The MAGNA3 enables communication via the following:

- wireless Grundfos GO Remote
- fieldbus communication via CIM modules
- digital inputs
- relay outputs
- analog input (more than a pump function as heat energy meter)



Date: 28/11/2017

Motor and electronic controller

The 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.

A differential-pressure and temperature sensor is incorporated in the pump.

Liquid:

Pumped liquid: Water
Liquid temperature range: -10 .. 110 °C
Liquid temperature during operation: 60 °C
Density: 983.2 kg/m³

Technical:

TF class: 110

Approvals on nameplate: ETL FCC 300DPI

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM A48-250B

Impeller: PES 30%GF

Installation:

Range of ambient temperature: 0 .. 40 °C Maximum operating pressure: 12 bar Flange standard: GF

Pipe connection: GF15/26/40/43

Pressure rating: PN12
Port-to-port length: PN12
165 mm

Electrical data:

Power input - P1: 9.7 .. 178 W
Mains frequency: 60 Hz
Rated voltage: 1 x 115-230 V
Maximum current consumption: 0.29 .. 1.61 A

Enclosure class (IEC 34-5): X4D Insulation class (IEC 85): F

Others:

Energy (EEI): 0.18
Net weight: 5.44 kg
Gross weight: 6.44 kg
Shipping volume: 0.013 m³



Date: 28/11/2017

Position | Qty. | Description

1 MAGNA3 32-100 F



Note! Product picture may differ from actual product

Product No.: On request

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Liquid:

Pumped liquid: Water
Liquid temperature range: -10 .. 110 °C
Liquid temperature during operation: 60 °C
Density: 983.2 kg/m³

Technical:

TF class: 110

Approvals on nameplate: ETL FCC 300DPI

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM A48-250B

Impeller: PES 30%GF

Installation:

Range of ambient temperature: 0 .. 40 °C Maximum operating pressure: 12 bar Flange standard: GF

Pipe connection: GF15/26/40/43

Pressure rating: PN12
Port-to-port length: PN12

Electrical data:

Power input - P1: 9.7 .. 178 W
Mains frequency: 60 Hz
Rated voltage: 1 x 115-230 V
Maximum current consumption: 0.29 .. 1.61 A

Enclosure class (IEC 34-5): X4D Insulation class (IEC 85): F

Others:

Energy (EEI): 0.18

Net weight: 5.44 kg

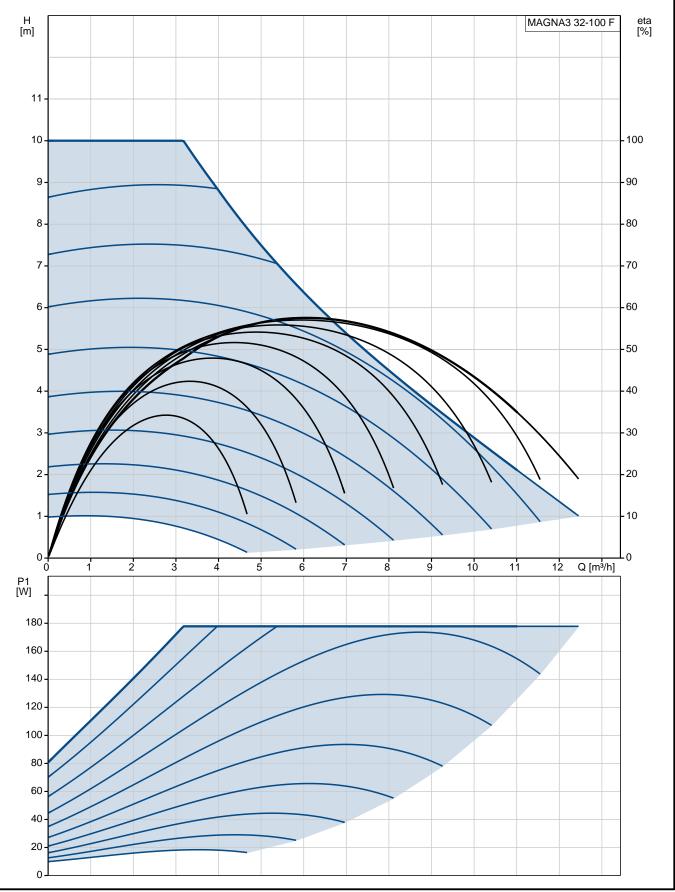
Gross weight: 6.44 kg

Shipping volume: 0.013 m³



Date: 28/11/2017

On request MAGNA3 32-100 F 60 Hz

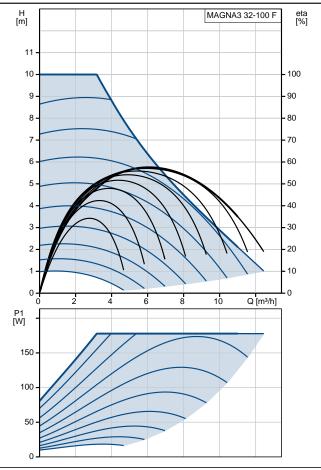


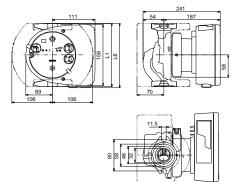


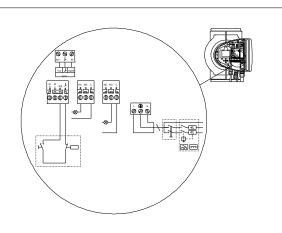
Date: 28/11/2017

| Description | Value | |
|--------------------------------------|-----------------|--|
| General information: | | |
| Product name: | MAGNA3 32-100 F | |
| Product No: | On request | |
| EAN number: | On request | |
| | | |
| Technical: | | |
| Head max: | 100 dm | |
| TF class: | 110 | |
| Approvals on nameplate: | ETL FCC 300DPI | |
| Model: | A | |
| | | |
| Materials: | | |
| Pump housing: | Cast iron | |
| | EN-GJL-250 | |
| | ASTM A48-250B | |
| Impeller: | PES 30%GF | |
| | | |
| Installation: | | |
| Range of ambient temperature: | 0 40 °C | |
| Maximum operating pressure: | 12 bar | |
| Flange standard: | GF | |
| Pipe connection: | GF15/26/40/43 | |
| Pressure rating: | PN12 | |
| Port-to-port length: | 165 mm | |
| | | |
| Liquid: | | |
| Pumped liquid: | Water | |
| Liquid temperature range: | -10 110 °C | |
| Liquid temperature during operation: | 60 °C | |
| Density: | 983.2 kg/m³ | |
| | | |
| Electrical data: | 0 = 4=0.14 | |
| Power input - P1: | 9.7 178 W | |
| Mains frequency: | 60 Hz | |
| Rated voltage: | 1 x 115-230 V | |
| Maximum current consumption: | 0.29 1.61 A | |
| Enclosure class (IEC 34-5): | X4D | |
| Insulation class (IEC 85): | F | |
| Others: | | |
| Energy (EEI): | 0.18 | |
| | 5.44 kg | |
| Net weight: | 6.44 kg | |
| Gross weight: | 0.44 Ny | |

0.013 m³





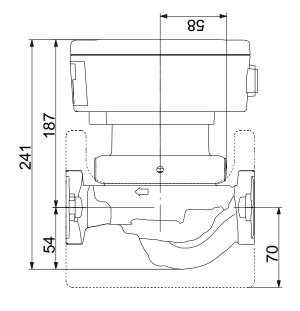


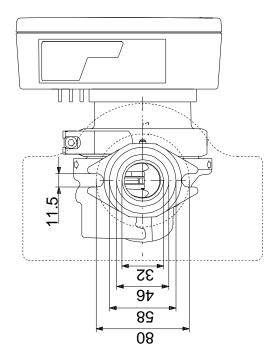
Shipping volume:

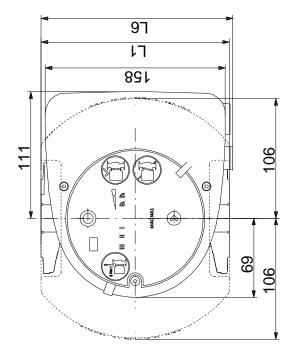


Date: 28/11/2017

On request MAGNA3 32-100 F 60 Hz





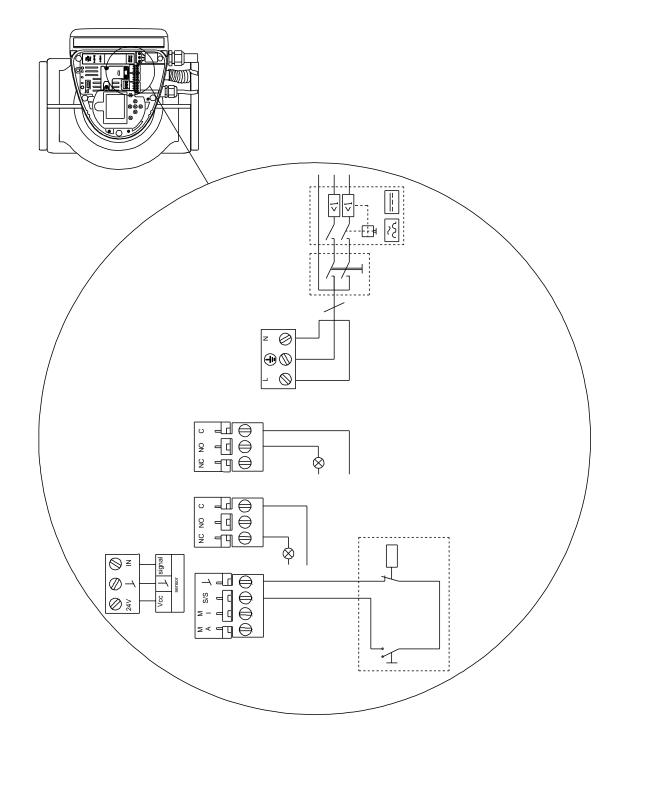


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 28/11/2017

On request MAGNA3 32-100 F 60 Hz



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



Date: 28/11/2017

Order Data:

Product name: MAGNA3 32-100 F

Amount: 1

Product No: On request

Total: Price on request



Date:

