

# Submittal Data

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

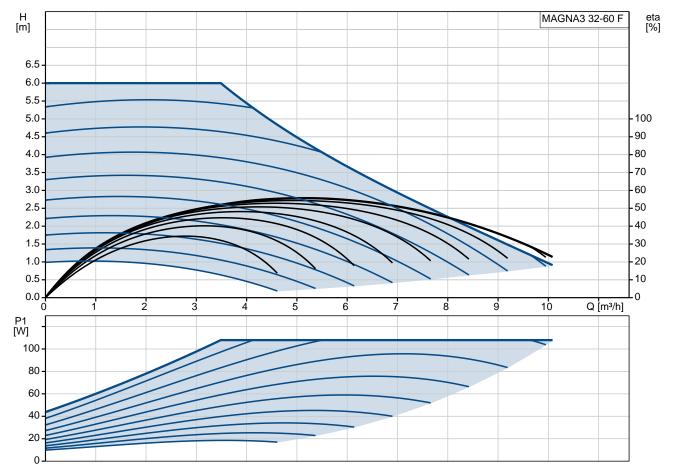


## MAGNA3 32-60 F

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

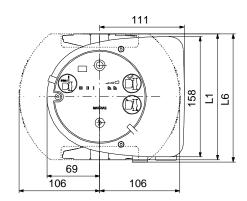
Note! Product picture may differ from actual product

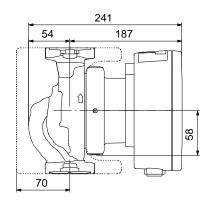
Conditions	of Service	Pump Da	nta	Motor	Data
Flow:		Maximum operating pressure:	12 bar	P1 max:	8.45 108 W
Head:		Liquid temperature range:	-10 110 °C	Rated voltage:	115-230 V
Efficiency:		Maximum ambient temperature:	40 °C	Mains frequency:	60 Hz
Liquid:	Water	Approvals:	ETL NSF/ANSI 300DPI	Enclosure class:	X4D
Temperature:	60 °C	Flange standard:	GF	Insulation class:	F
NPSH required:	m	Pipe connection:	GF15/26/40/43		
Viscosity:		Product number:	On request		
Specific Gravity:	0.985				

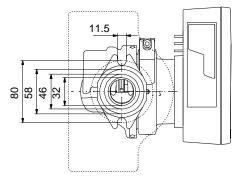












## Materials:

Pump housing: Cast iron Impeller:

EN-GJL-250 ASTM A48-250B PES 30%GF



Date:

28/11/2017

## **Tender Text**



Note! Product picture may differ from actual product

Product No.: On request MAGNA3 32-60 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:

## 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/m <sup>3</sup>

## Technical:

TF class:	110
Approvals on nameplate:	ETL NSF/ANSI 300DPI

#### Materials:

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

### Installation:

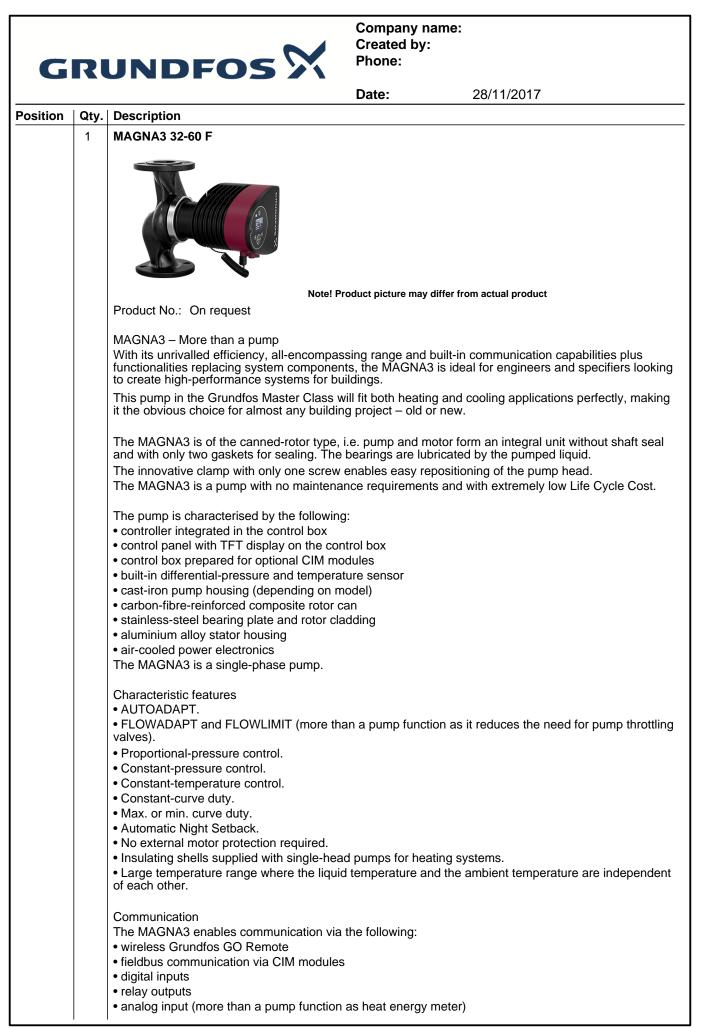
Range of ambient temperature:	0 40 °C
Maximum operating pressure:	12 bar
Flange standard:	GF
Pipe connection:	GF15/26/40/43
Pressure rating:	PN12
Port-to-port length:	165 mm

### Electrical data:

Power input - P1:	8.45 108 W
Mains frequency:	60 Hz
Rated voltage:	1 x 115-230 V
Maximum current consumption:	0.29 1.01 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F

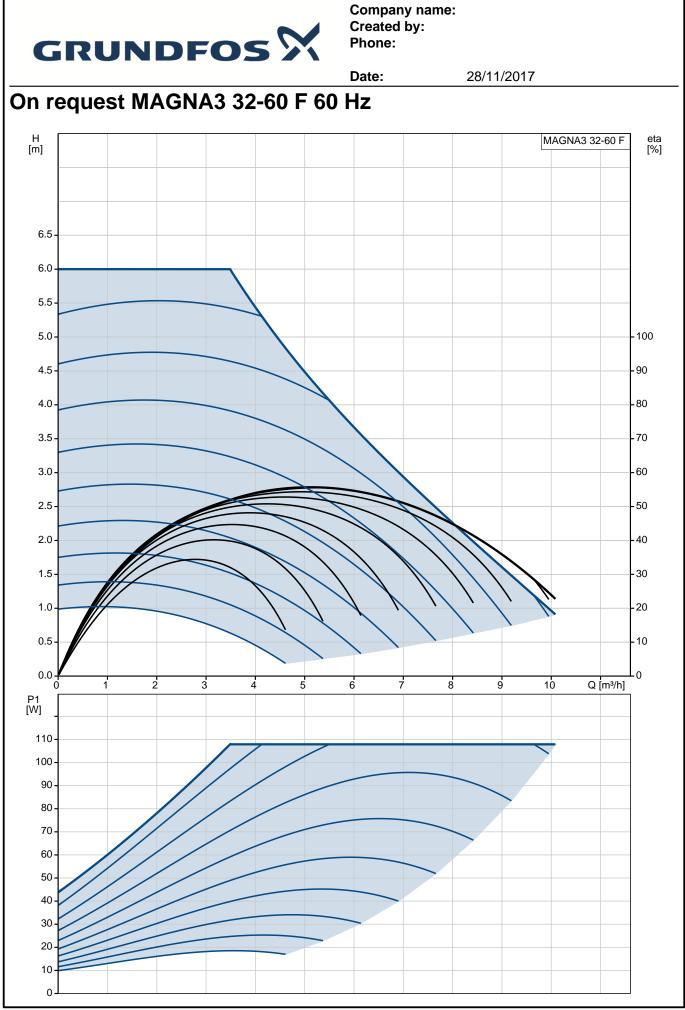
### Others:

Energy (EEI):	0.19
Net weight:	5.44 kg
Gross weight:	6.44 kg
Shipping volume:	0.012 m³



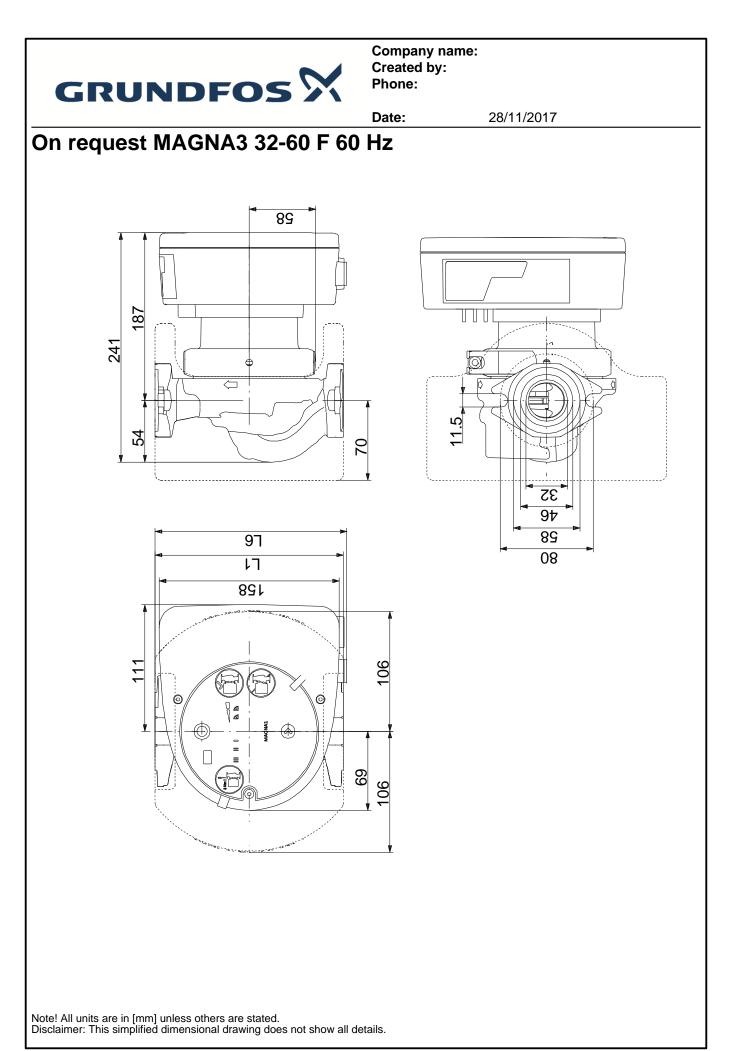


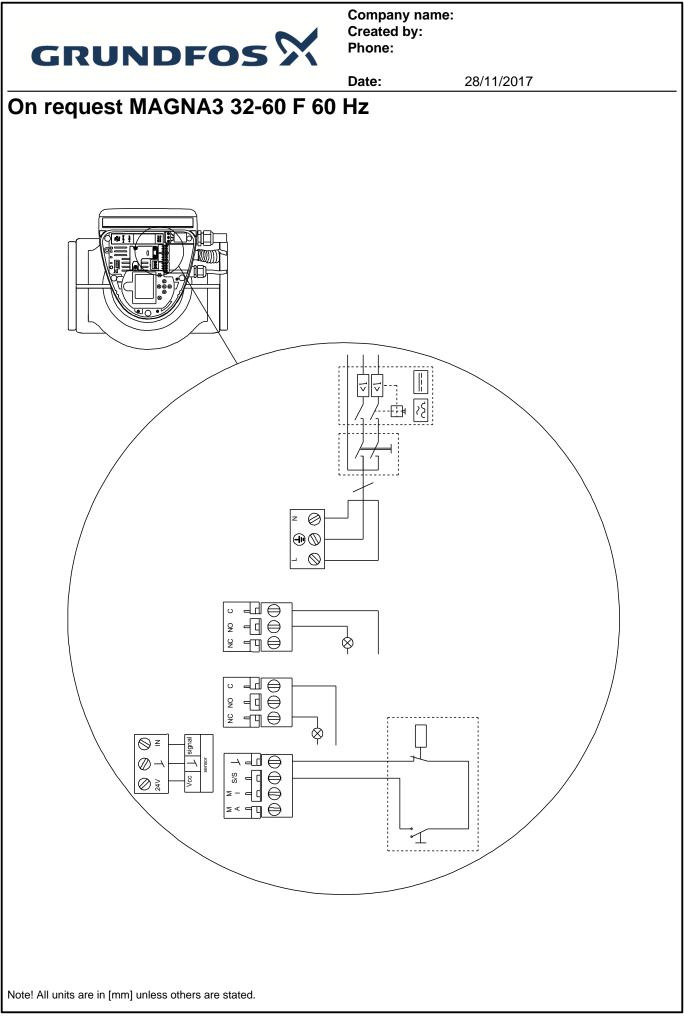
			Date:	28/11/2017
osition	Qty.	Description		
		Motor and electronic controller The MAGNA3 incorporates a 4-p type is characterised by higher e The pump speed is controlled by A differential-pressure and temp	efficiency than a conve y an integrated frequer	
		Liquid:		
		Pumped liquid: Liquid temperature range: Liquid temperature during opera Density:	Water -10 110 °C tion: 60 °C 983.2 kg/m³	
		Technical:		
		TF class: Approvals on nameplate:	110 ETL NSF/ANSI 300D	PI
		Materials:	0	
		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: Flange standard:	12 bar GF	
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		Port-to-port length:	165 mm	
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		<b>Others:</b> Energy (EEI):	0.19	
		Net weight:	5.44 kg	
		Gross weight: Shipping volume:	6.44 kg 0.012 m³	





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<u>241</u> <u>54 187</u>
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28/11/2017

## **Order Data:**

Product name:MAGNA3 32-60 FAmount:1Product No:On request

Total: Price on request



