Submittal Data

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



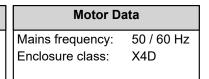
MAGNA3 50-60 F

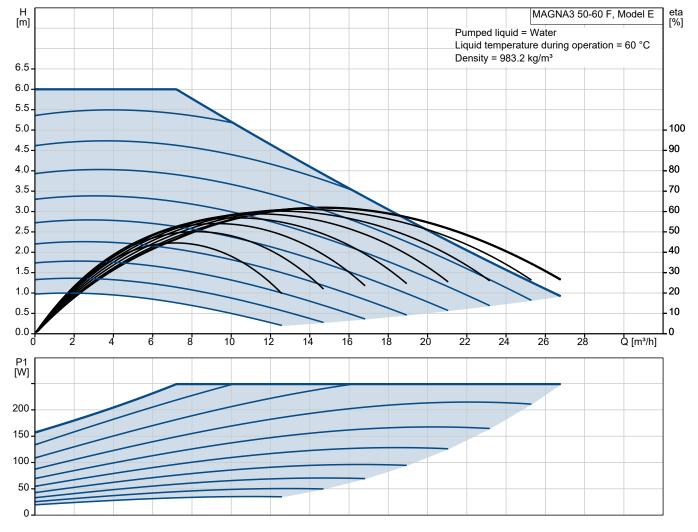
The MAGNA3 is the premium choice when system control and monitoring is key. MAGNA3 supports fieldbus by optional CIM modules, and connects directly with the Grundfos GO app via Bluetooth.

Note! Product picture may differ from actual product

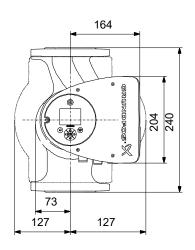
Conditions of Service				
Liquid:	Water			
Temperature:	60 °C			
Specific Gravity:	0.985			

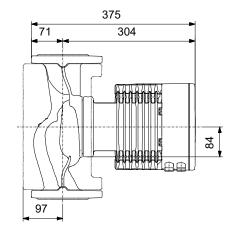
Pump Data	
Liquid temperature range:	-10 110 °C
Maximum ambient temperature:	40 °C
Product number:	On request

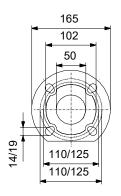




Submittal Data







Materials:

Pump housing: Cast iron

Pump housing: ASTM A48-250B Impeller: Composite



Company name: Created by: Phone:

Date: 28/11/2023

Project:

Reference Number:

Client: Client Number:

Contact:

Qty. | Description

1 MAGNA3 50-60 F



Note! Product picture may differ from actual product

Product No.: On request

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.



Company name: Created by:

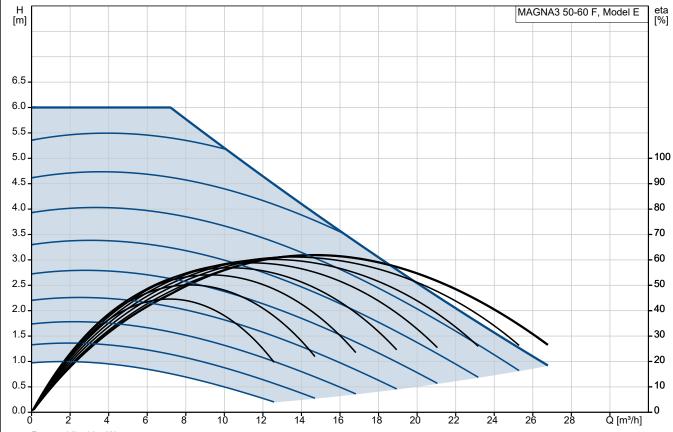
Phone:

Date: 28/11/2023

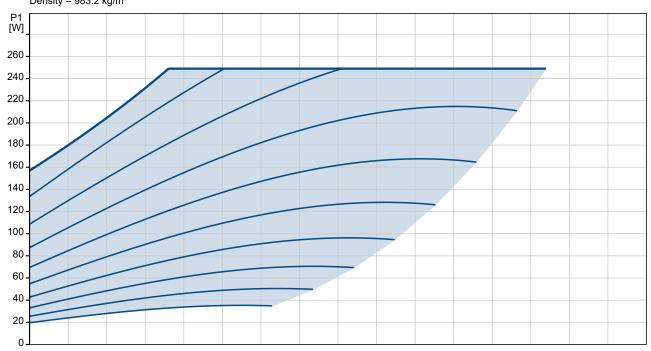
Project: Client:

Reference Number: Client Number: Contact:

On request MAGNA3 50-60 F



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





Value

MAGNA3 50-60 F

On request

On request

13.99 m³/h

4.102 m

CE,VDE

60 dm

110

Company name: Created by: Phone:

28/11/2023 Date:

Project:

Description

Product name: Product No:

EAN number:

Technical: Rated flow:

Rated head:

TF class:

Approvals:

Maximum head:

Reference Number:

General information:

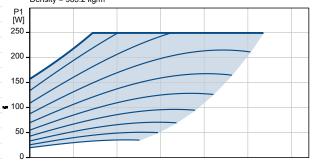
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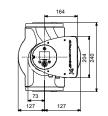
Client Number:

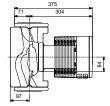
Contact:

H [m]				MAGN	MAGNA3 50-60 F, Model E	
[]						[%]
6.5						
6.0						
5.5						
5.0		1				
4.5		_ \				- 90
4.0		_				- 80
3.5						70
3.0						- 60
2.5						- 50
2.0						- 40
1.5			11			_ 30
1.0			11/1	/ //	1	- 20
0.5						_ 10
0.0						0
0	5	10	15	20	25	Q [m³/h]

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

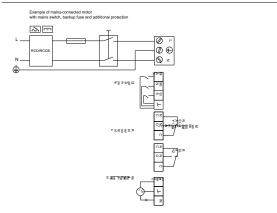








NA. J. I	_	
Model:	E	
Materials:		
Pump housing:	Cast iron	
Pump housing:	EN 1561 EN-GJL-250	
Pump housing:	ASTM A48-250B	
Impeller:	Composite	
Installation:		
Range of ambient temperature:	0 40 °C	
Maximum operating pressure:	16 bar	
Type of connection:	DIN	
Size of connection:	DN 50	
Pressure rating for connection:	PN 16	
Port-to-port length:	240 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:	249 W	
P1 min.:	21 W	
Mains frequency:	50 / 60 Hz	
Rated voltage:	1 x 230 V	
Minimum current consumption:	0.23 A	
Maximum current consumption:	1.18 A	
Enclosure class (IEC 34-5):	X4D	
Insulation class (IEC 85):	F	
Others:		
Energy (EEI):	0.19	
Net weight:	17.5 kg	
Gross weight:	19.7 kg	
Shipping volume:	0.046 m³	
Sales region:	D	
Country of origin:	DE	
Custom tariff no.:	84137030	
Environmental approvals:	WEEE	





Company name: Created by: Phone:

28/11/2023 Date:

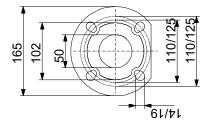
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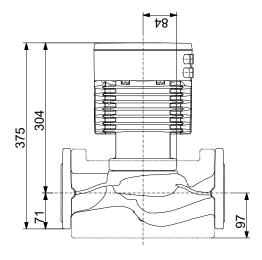
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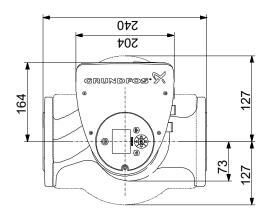
Client:

Client Number: Contact:

On request MAGNA3 50-60 F







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



Company name: Created by:

Phone:

Date:

28/11/2023

Project:

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

Reference Number:

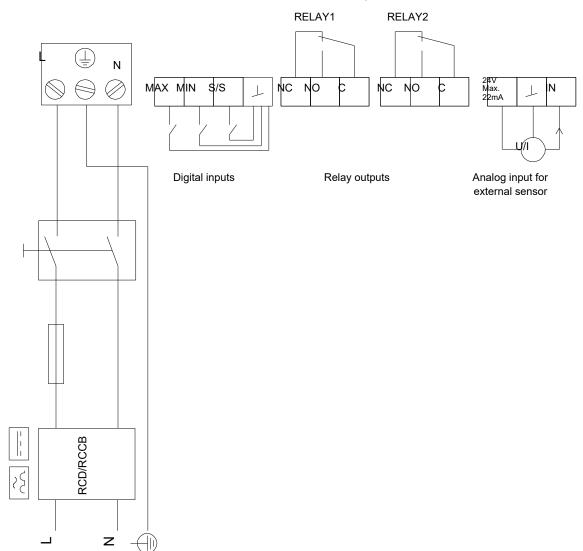
Client:

Client Number: Contact:

On request MAGNA3 50-60 F

Max. 250V AC, 2A, AC1

Min. 5V DC, 20mA



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



Company name: Created by: Phone:

Date: 28/11/2023

Client:

Project:
Reference Number: **Client Number:** Contact:

Order Data:					
Position	Your pos.	Product name	Amount	Product No	Total
		MAGNA3 50-60 F	1	On request	Price on
					request