GRUNDFOS

Submittal Data

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

Product photo could vary from the actual product

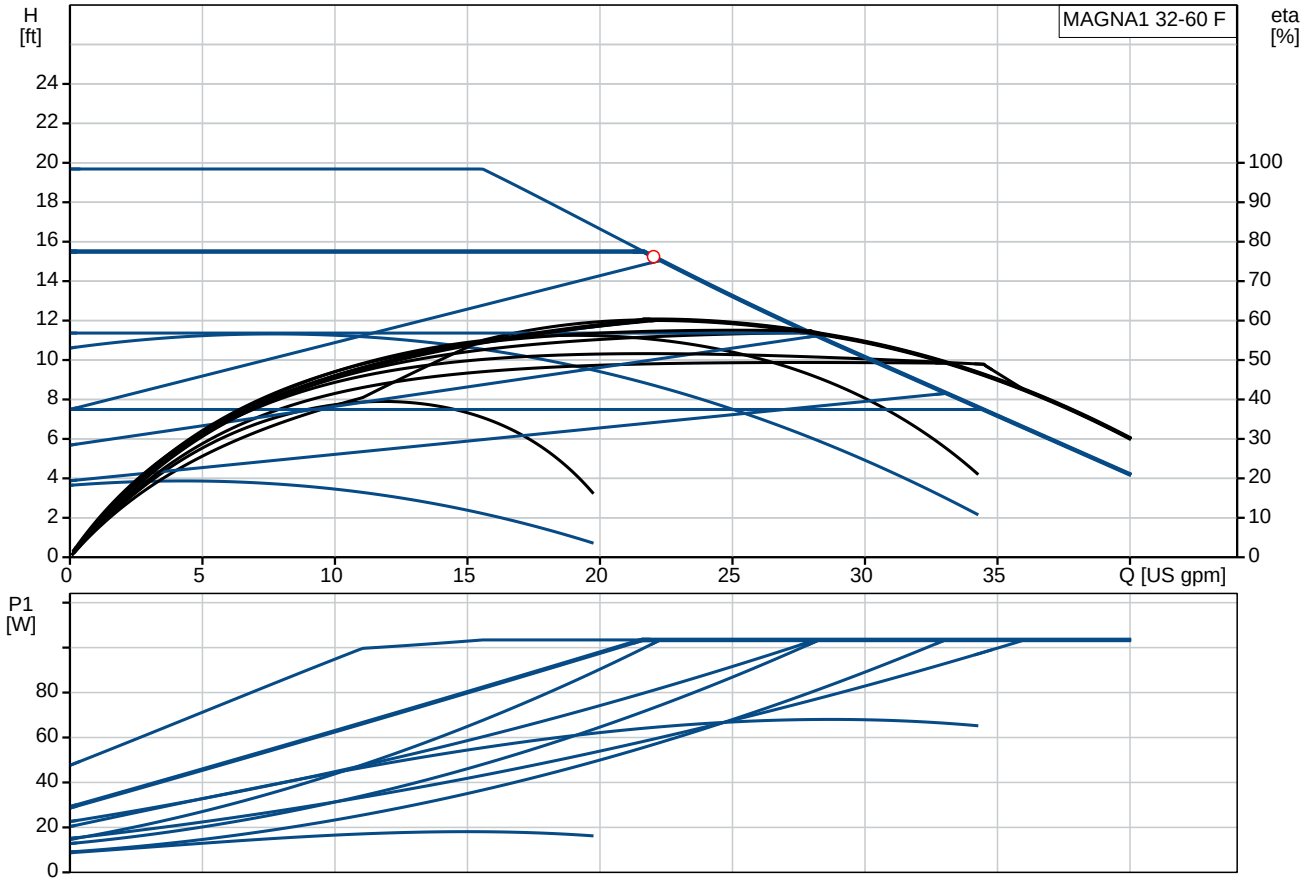
MAGNA1 32-60 F

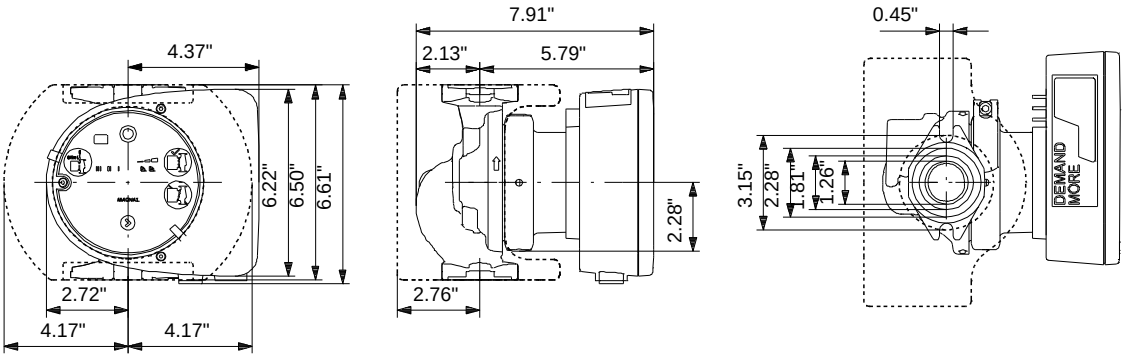
Full range of intelligent, high-efficiency circulators for heating, cooling, ground source heat pump systems and domestic hot water applications

Conditions of Service	
Flow:	
Head:	
Efficiency:	
Liquid:	Water
Temperature:	140 °F
NPSH required:	ft
Viscosity:	
Specific Gravity:	0.985

Pump Data	
Maximum operating pressure:	174 psi
Liquid temperature range:	14 .. 230 °F
Maximum ambient temperature:	104 °F
Approvals:	98544607
Flange standard:	GF
Pipe connection:	GF15/26/40/43
Product number:	98126819

Motor Data	
P1 max:	8.71 .. 107 W
Rated voltage:	115-230 V
Main frequency:	60 Hz
Enclosure class:	X4D
Insulation class:	F





Materials:

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

Company name:
Created by:
Phone:

Date: 2/21/2018

Tender Text

Product photo could vary from the actual product

Product No.: 98126819
MAGNA1 32-60 F

MAGNA1 circulator pump with easy selection of pump setting
The pump 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.
In order to avoid problems in connection with disposal, great importance has been attached to using as few different materials as possible.
A pump with no maintenance requirements and extremely low life cycle cost.

Heating systems
• Main pump
• mixing loops
• heating surfaces
• air-conditioning surfaces.
The MAGNA1 circulator pumps are designed for
circulating liquids in heating systems with variable flows where it is desirable to optimize the setting of the pump duty point, thus reducing energy costs. The pumps are also suitable for domestic hot-water systems.
To ensure correct operation, it is important that the sizing range of the system falls within the duty range of the pump.
The pump is also suitable for systems with
hot-water priority as an external signal can
immediately force the pump to operate according to the max. curve, for example in solar-heating systems.

Benefits
• Safe selection.
• Simple installation.
• Low energy consumption. All MAGNA1 pumps comply with the EuP requirements.
• Nine light fields for indication of pump setting. Three proportional-pressure curves, three constant-pressure curves and three fixed-speed curves are available.
• Low noise level.
• No maintenance and long life.

Liquid:

Pumped liquid:	Water
Liquid temperature range:	14 .. 230 °F
Liquid temperature during operation:	140 °F
Density:	61.35 lb/ft³

Technical:

TF class:	110
Approvals on nameplate:	98544607

Materials:

Pump housing:	Cast iron EN-GJL-250

	ASTM A48-250B
Impeller:	PES 30%GF

Installation:

Range of ambient temperature:	32 .. 104 °F
Maximum operating pressure:	174 psi
Flange standard:	GF
Pipe connection:	GF15/26/40/43
Pressure stage:	PN12
Port-to-port length:	6 1/2 in

Electrical data:

Power input - P1:	8.71 .. 107 W
Main frequency:	60 Hz
Rated voltage:	1 x 115-230 V
Maximum current consumption:	0.28 .. 1.01 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F

Others:

Energy (EEI):	0.20
Net weight:	11 lb
Gross weight:	13.2 lb
Shipping volume:	345 ft^3

GRUNDFOS

Company name:
Created by:
Phone:

Date: 2/21/2018

Position	Count	Description
	1	**MAGNA1 32-60 F**

Product photo could vary from the actual product

Product No.: 98126819

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Liquid temperature during operation:	140 °F
Density:	61.35 lb/ft³

Technical:

TF class:	110
Approvals on nameplate:	98544607

Materials:

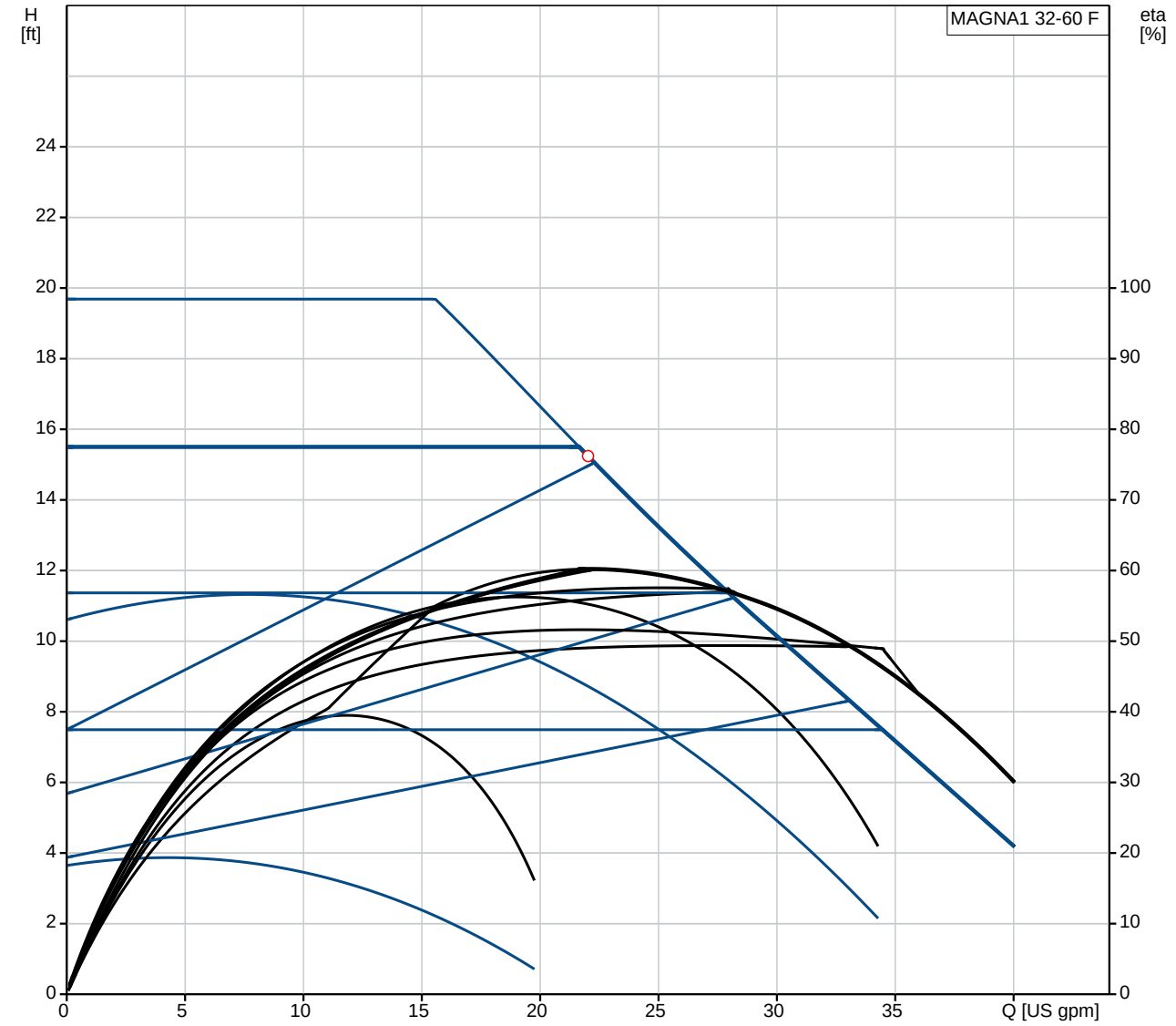
Pump housing:	Cast iron

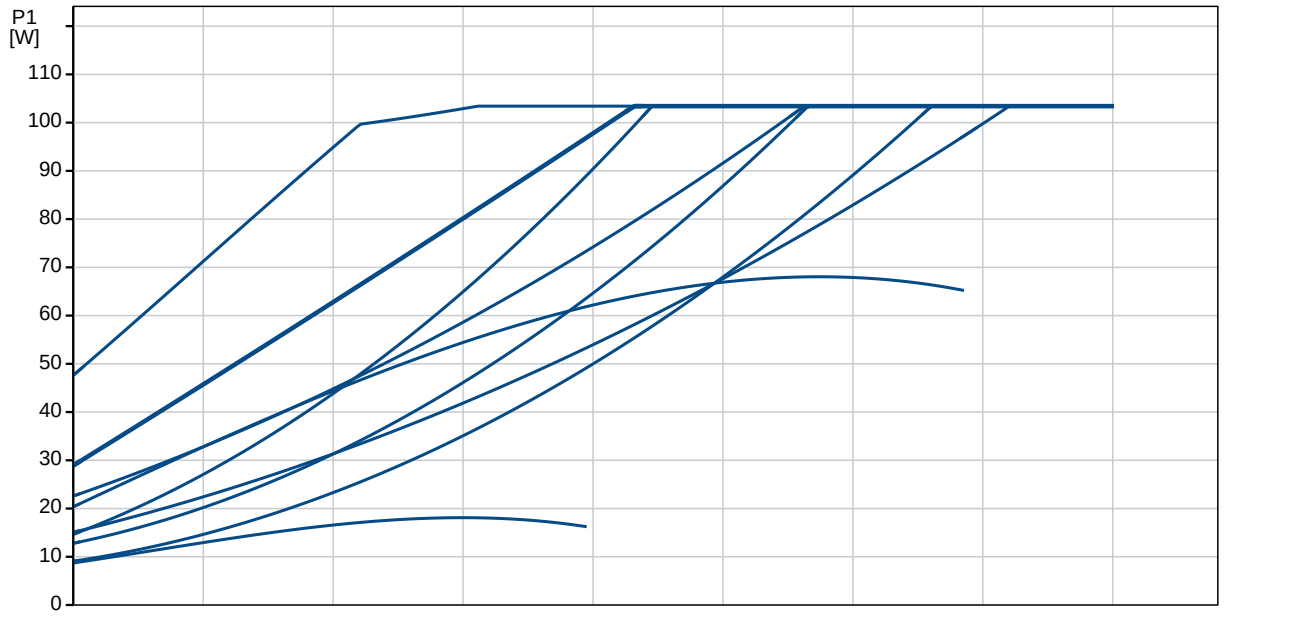
Position	Count	Description
		EN-GJL-250 ASTM A48-250B Impeller: PES 30%GF **Installation:** Range of ambient temperature: 32 .. 104 °F Maximum operating pressure: 174 psi Flange standard: GF Pipe connection: GF15/26/40/43 Pressure stage: PN12 Port-to-port length: 6 1/2 in **Electrical data:** Power input - P1: 8.71 .. 107 W Main frequency: 60 Hz Rated voltage: 1 x 115-230 V Maximum current consumption: 0.28 .. 1.01 A Enclosure class (IEC 34-5): X4D Insulation class (IEC 85): F **Others:** Energy (EEI): 0.20 Net weight: 11 lb Gross weight: 13.2 lb Shipping volume: 345 ft³

Company name:
Created by:
Phone:

Date: 2/21/2018

98126819 MAGNA1 32-60 F 60 Hz

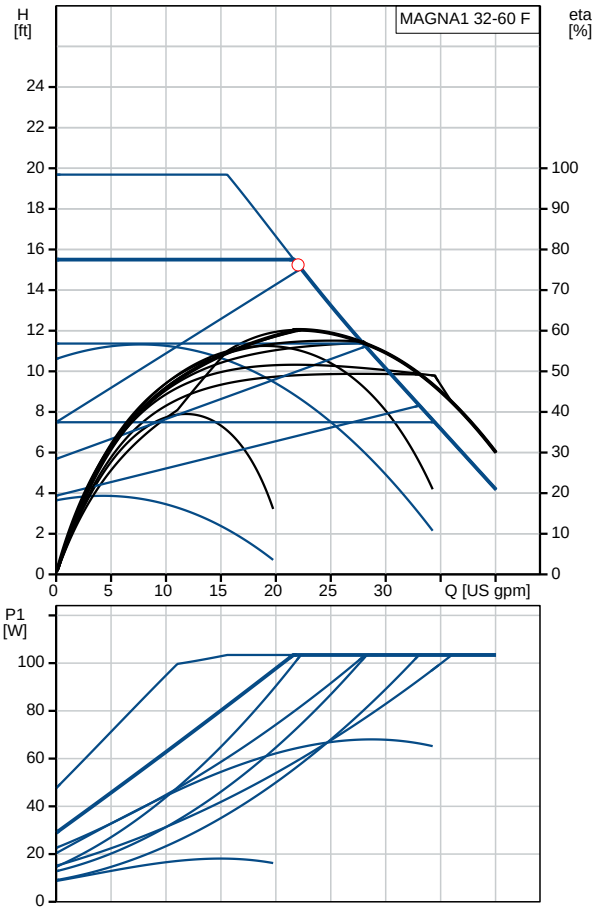


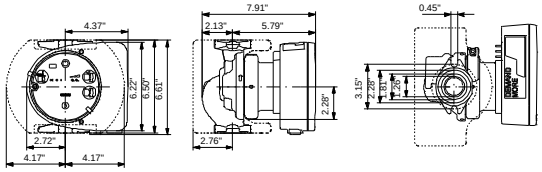


Company name:
Created by:
Phone:

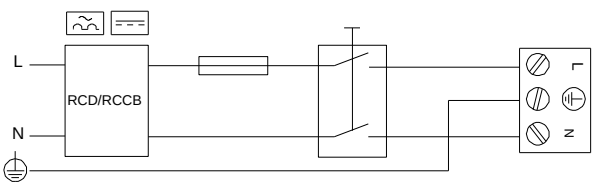
Date: 2/21/2018

Description	Value
General information:	
Product name:	MAGNA1 32-60 F
Product No.:	98126819
EAN:	5710629499813
Technical:	
Head max:	19.69 ft
TF class:	110
Approvals on nameplate:	98544607
Model:	B
Materials:	
Pump housing:	Cast iron
	EN-GJL-250
	ASTM A48-250B
Impeller:	PES 30%GF
Installation:	
Range of ambient temperature:	32 .. 104 °F
Maximum operating pressure:	174 psi
Flange standard:	GF
Pipe connection:	GF15/26/40/43
Pressure stage:	PN12
Port-to-port length:	6 1/2 in
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	14 .. 230 °F
Liquid temperature during operation:	140 °F
Density:	61.35 lb/ft³
Electrical data:	
Power input - P1:	8.71 .. 107 W
Main frequency:	60 Hz
Rated voltage:	1 x 115-230 V
Maximum current consumption:	0.28 .. 1.01 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.20
Net weight:	11 lb
Gross weight:	13.2 lb
Shipping volume:	345 ft³





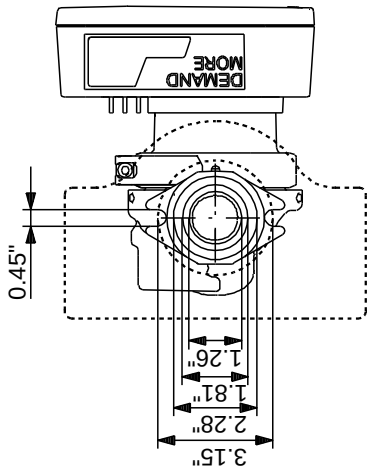
Example of mains-connected motor
with mains switch, backup fuse and additional protection

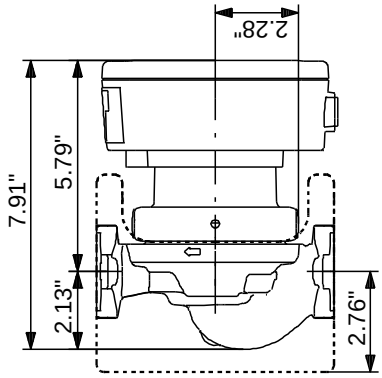


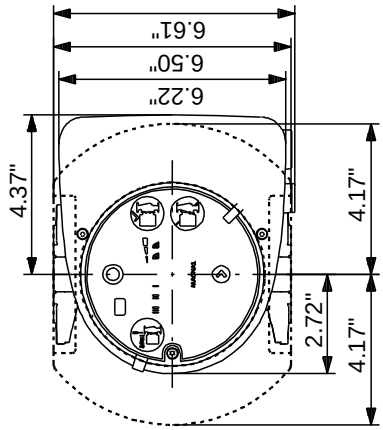
Company name:
Created by:
Phone:

Date: 2/21/2018

98126819 MAGNA1 32-60 F 60 Hz





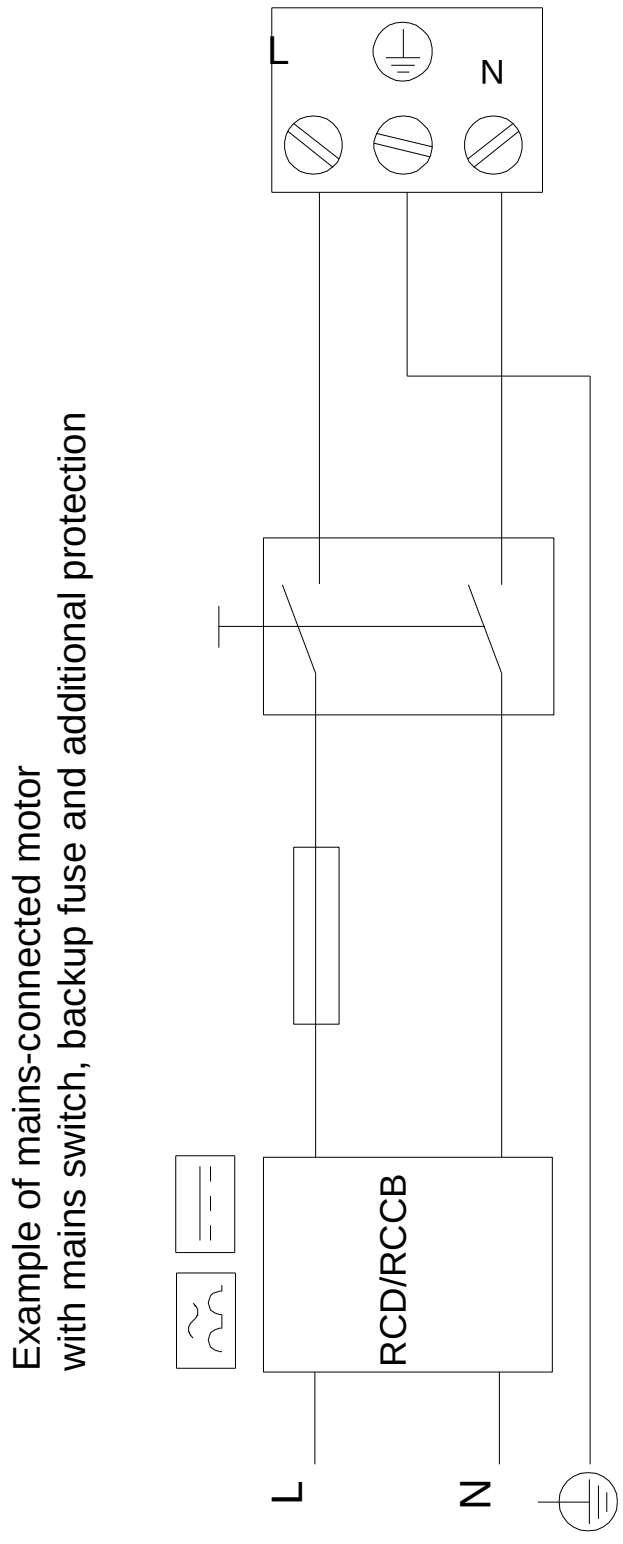


Note! All units are in [mm] unless otherwise stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Company name:
Created by:
Phone:

Date: 2/21/2018

98126819 MAGNA1 32-60 F 60 Hz



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

All units are [mm] unless otherwise presented.

GRUNDFOS

Company name:
Created by:
Phone:

Date: 2/21/2018

Order Data:

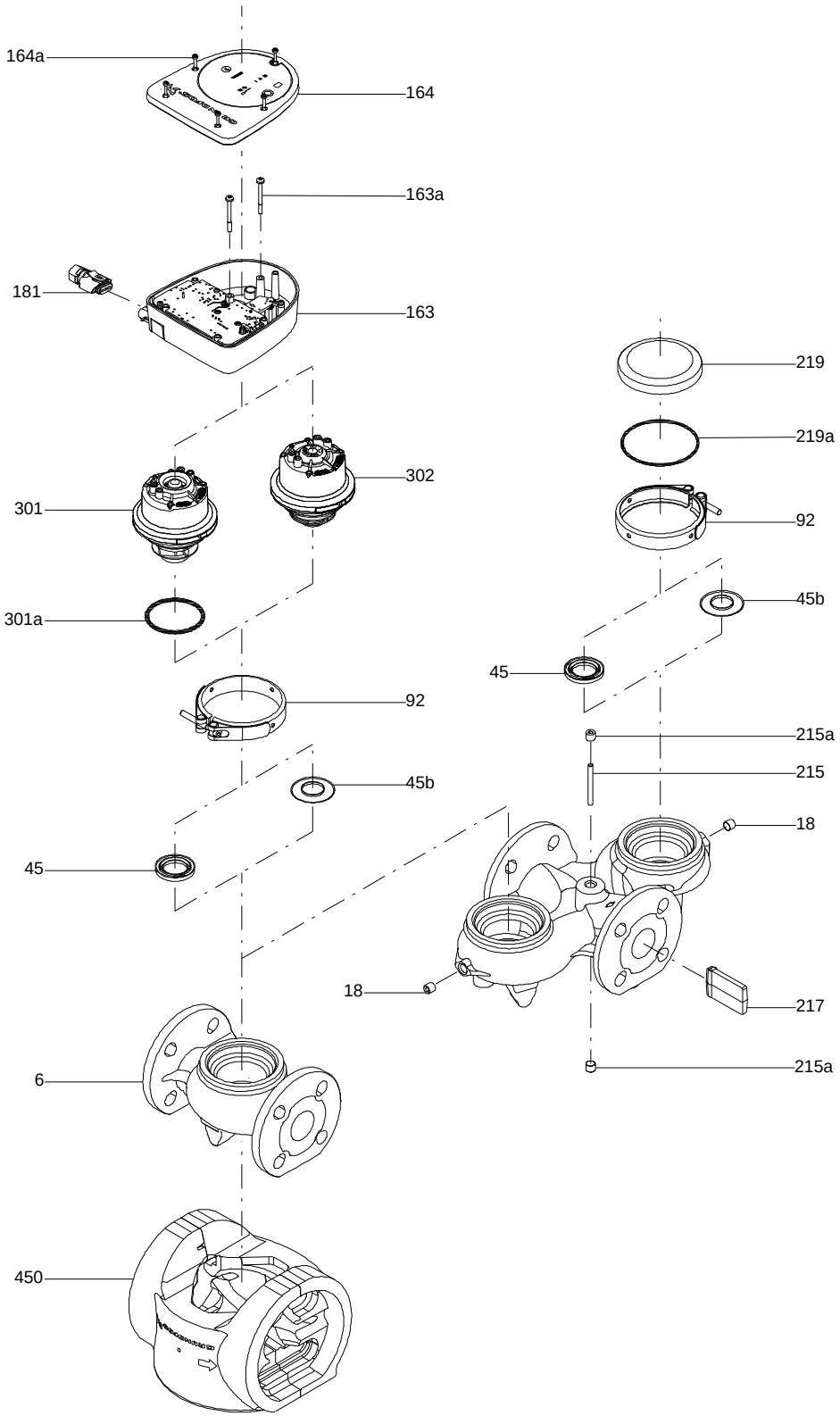
Product name: MAGNA1 32-60 F
Amount: 1
Product No.: 98126819

Total: Price on request

Company name:
Created by:
Phone:

Date: 2/21/2018

Exploded view (TM055854 MAGNA1 200W)



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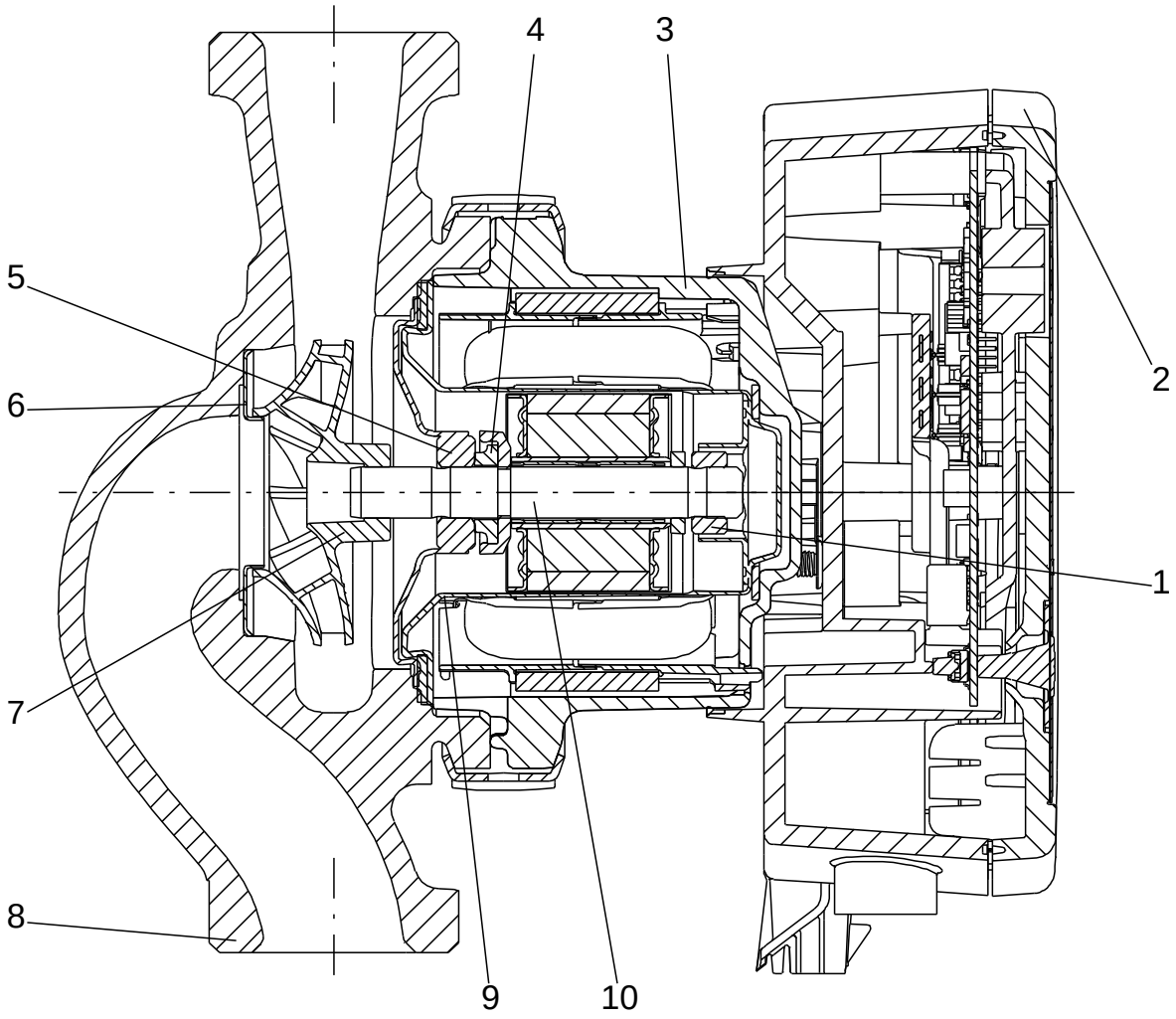
Sectional drawing (TM069947 Magna1 small model C)



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Parts list MAGNA1 32-60 F, Prod number 98126819
Valid from 31.7.2017 (1731)

	Position	Description	Annotation	Classification data	Part No.	Count	Unit
		Gasket				2	pcs
		Gasket				1	pcs
		Washer				2	pcs
		Control box				1	pcs
		Pan head thread forming screw				2	pcs
	6	Pump housing				1	pcs
	92	Clamp cpl.				1	pcs
-	301	Pump head cpl.				1	pcs
	301a	O-ring				1	
	450	Insulation				1	pcs