

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

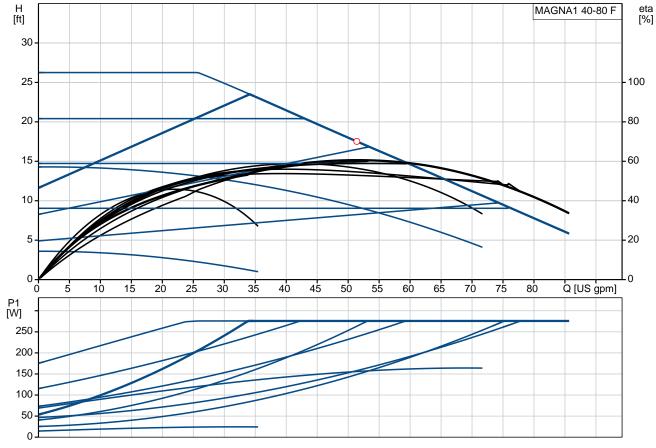
MAGNA1 40-80 F

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

of Service
Water
140 °F
ft
0.985

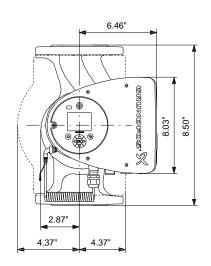
Pump Data	
Maximum operating pressure:	174 psi
Liquid temperature range:	14 230 °F
Maximum ambient temperature:	104 °F
Approvals:	98544607
Flange standard:	GF
Pipe connection:	GF15/26/40/43
Product number:	98126799

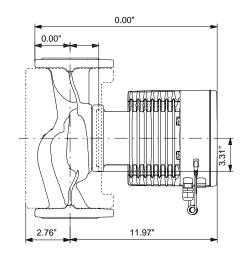
Motor E	Data
P1 max:	17 280 W
Rated voltage:	115 V
Main frequency:	60 Hz
Enclosure class:	X4D
Insulation class:	F

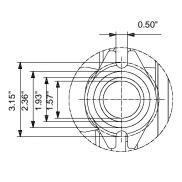




Submittal Data







Materials:

Pump housing: Cast iron

EN-GJL-250

ASTM A48-250B

Impeller: PES 30%GF



Date: 2/22/2018

Tender Text



Product photo could vary from the actual product

Product No.: 98126799 MAGNA1 40-80 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



Date: 2/22/2018

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: 8 9/16 in

Electrical data:

Power input - P1: 17 .. 280 W
Main frequency: 60 Hz
Rated voltage: 1 x 115 V
Maximum current consumption: 0.26 .. 2.52 A

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

Others:

Energy (EEI): 0.19
Net weight: 36.3 lb
Gross weight: 40.2 lb
Shipping volume: 1060 ft³



Date: 2/22/2018

Position | Count | Description

1 MAGNA1 40-80 F



Product photo could vary from the actual product

Product No.: 98126799

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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



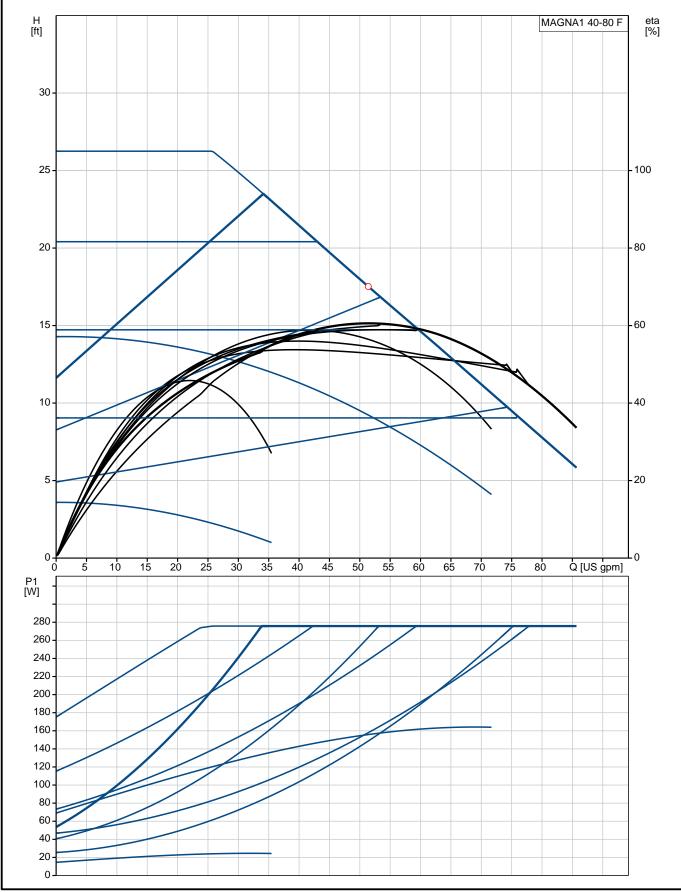
Date: 2/22/2018

			Date.	2/22/2010
Position	Count	Description		
		-	EN-GJL-250	
			ASTM A48-250B	
		Impeller:	PES 30%GF	
		impelier.	FL3 30 /6GI	
		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:	8 9/16 in	
		Tort to port longui.	3 3/ 13 III	
		Electrical data:		
		Power input - P1:	17 280 W	
		Main frequency:	60 Hz	
		Rated voltage:	1 x 115 V	
		Maximum current consumption:		
		Enclosure class (IEC 34-5):	X4D	
		Insulation class (IEC 85):	F	
		Others:		
		Energy (EEI):	0.19	
		Net weight:	36.3 lb	
		Gross weight:	40.2 lb	
		Shipping volume:	1060 ft ³	



Date: 2/22/2018

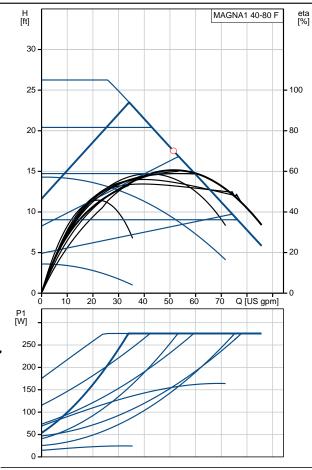
98126799 MAGNA1 40-80 F 60 Hz

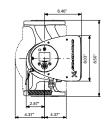


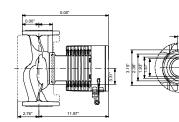


Date:	2/22/2018
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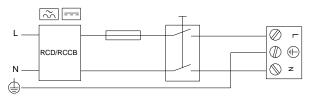
Description	Value
General information:	
Product name:	MAGNA1 40-80 F
Product No.:	98126799
EAN:	5710629499615
Technical:	
Head max:	26.25 ft
TF class:	110
Approvals on nameplate:	98544607
Model:	В
Materials:	
Pump housing:	Cast iron
Fullip flousing.	EN-GJL-250
	ASTM A48-250B
Impollar	PES 30%GF
Impeller:	FE3 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:	8 9/16 in
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	14 230 °F
Liquid temperature during operation:	140 °F
Density:	61.35 lb/ft ³
Electrical data:	
Power input - P1:	17 280 W
Main frequency:	60 Hz
Rated voltage:	1 x 115 V
Maximum current consumption:	0.26 2.52 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
modiation diass (IEO 00).	1
Others:	
Energy (EEI):	0.19
Net weight:	36.3 lb
Gross weight:	40.2 lb
Shipping volume:	1060 ft ³







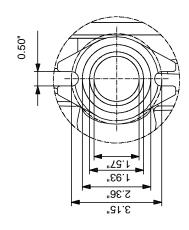
Example of mains-connected motor with mains switch, backup fuse and additional protection

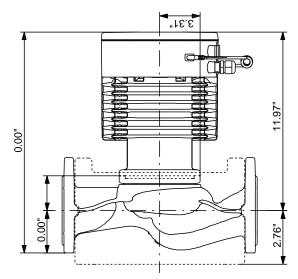


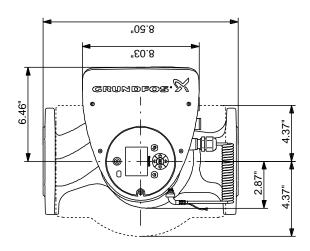


Date: 2/22/2018

98126799 MAGNA1 40-80 F 60 Hz





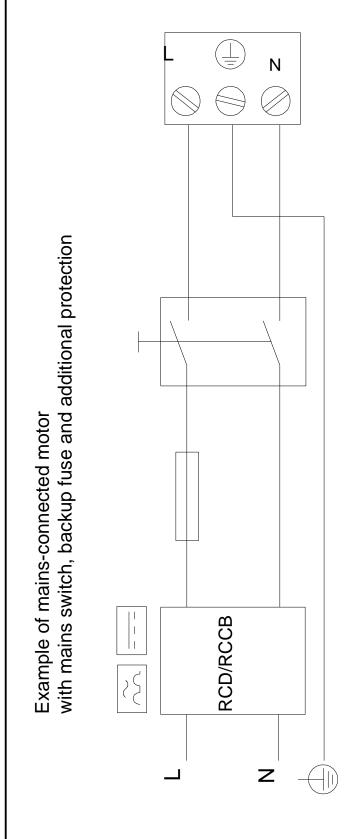


Note! All units are in [mm] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 2/22/2018

98126799 MAGNA1 40-80 F 60 Hz



All units are [mm] unless otherwise presented.



Date: 2/22/2018

Order Data:

Product name: MAGNA1 40-80 F

Amount: 1

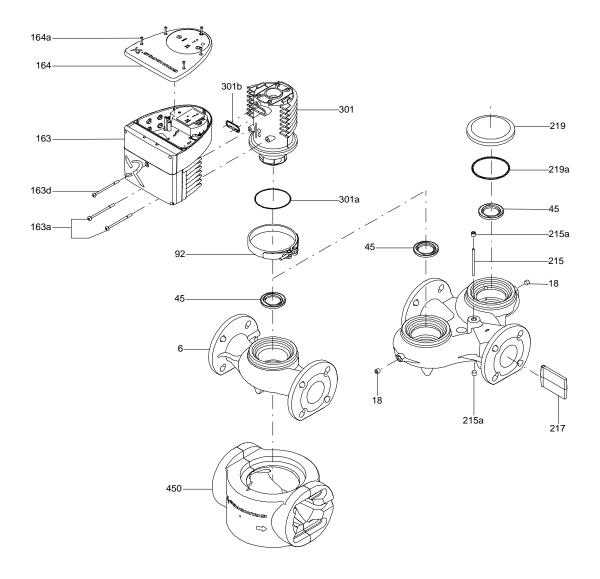
Product No.: 98126799

Total: Price on request



Date: 2/22/2018

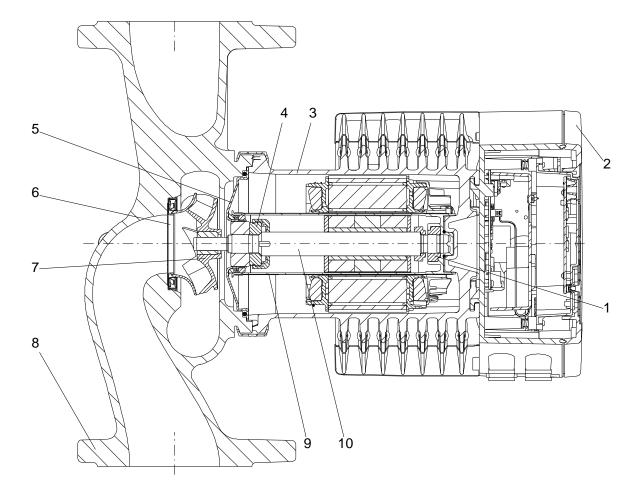
Exploded view (TM054005 for Magna1 750-1600W)





Date: 2/22/2018

Sectional drawing (TM069997 Magna1 ME/LA model C)





Date: 2/22/2018

Parts list MAGNA1 40-80 F, Prod number 98126799 Valid from 31.7.2017 (1731)

Position	Description	Annotation	Classification data	Part No.	Count	Unit
	Gasket				2	pcs
-	Control box				1	pcs
162	Control box				1	
163	Control box				1	
6	Pump housing cpl.				1	pcs
92	Clamp cpl.				1	pcs
163a	Pan head screw				2	pcs
163d	Pan head screw				1	pcs
301	Pump head cpl.				1	pcs
301b	Protector				1	pcs
450	Insulation				1	pcs