

12/11/2020

Date:

Qty. | Description

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MAGNA1 80-120 F

## Product No.: 99221409

## Note! Product picture may differ from actual product

The new MAGNA1 is the simple option for a job well done. It is the perfect choice when replacing older circulators and due to its compliance with the EuP 2015 regulations, substantial savings on electricity is a reality. The ideal choice for basic performance needs in applications where basic system control and monitoring is desired.

- · Monitoring via the fault relay, ensuring peace of mind
- Digital start/stop input available for remote pump control
- · Continuous operation and reduced downtime with the wireless twin pump function (available on twin-head pumps)
- · High energy efficiency resulting in substantial savings on electricity
- Easy setup and operation via the simple user interface
- No maintenance due to the canned-rotor type design.

MAGNA1 is the simple and efficient choice for most applications including

- Heating
  - Main pump
  - Mixing loops
  - Heating surfaces
- Cooling
  - Air conditioning surfaces
  - Ground source heat pump systems
  - Smaller chiller applications

Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -10 110 °C 60 °C 983.2 kg/m³
Technical: TF class: Approvals on nameplate:	110 CE,VDE,EAC,CN ROHS,WEEE
Materials: Pump housing: Impeller:	Cast iron EN-GJL-250 ASTM A48-250B PES 30%GF
Installation: Range of ambient temperature: Maximum operating pressure: Flange standard: Pipe connection: Pressure rating: Port-to-port length:	0 40 °C 6 bar DIN DN 80 PN 6 360 mm
Electrical data: Power input - P1: Mains frequency: Rated voltage: Maximum current consumption: Enclosure class (IEC 34-5): Insulation class (IEC 85):	30.5 1277 W 50 / 60 Hz 1 x 230 V 0.31 5.59 A X4D F

Others:

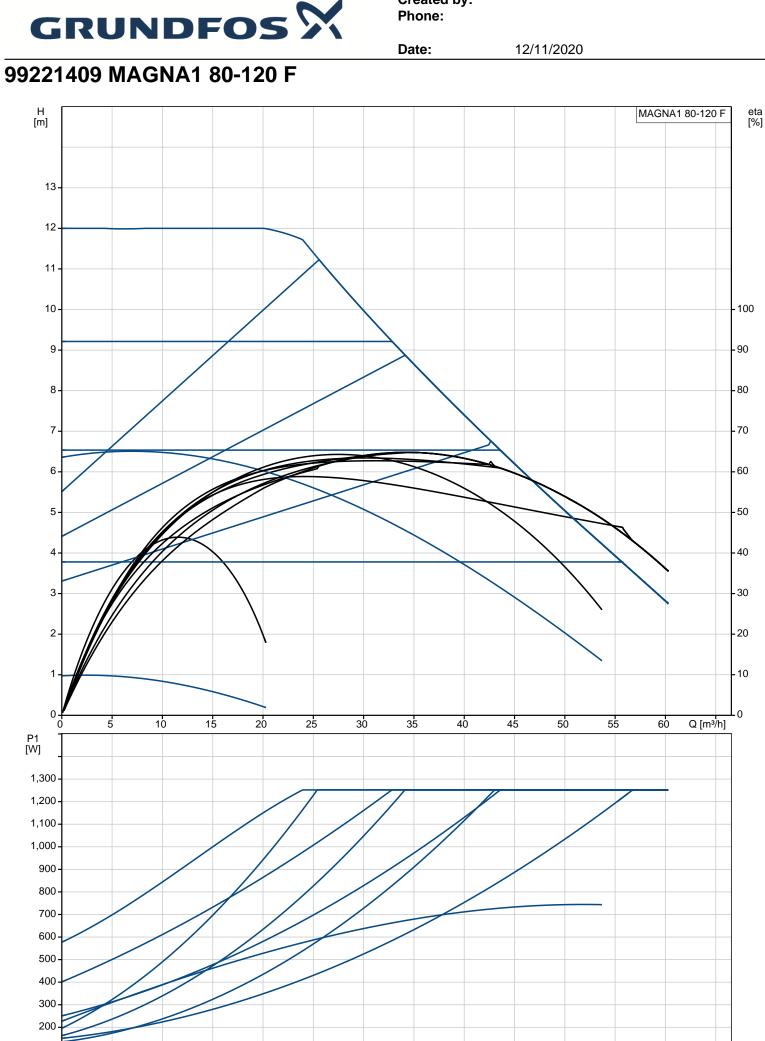


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Description	
Energy (EEI):	0.19
Net weight:	30.2 kg
Gross weight:	32.5 kg
Shipping volume:	0.071 m <sup>3</sup>
	DE
Custom tariff no.:	84137030
	Energy (EEI): Net weight: Gross weight: Shipping volume: Country of origin:

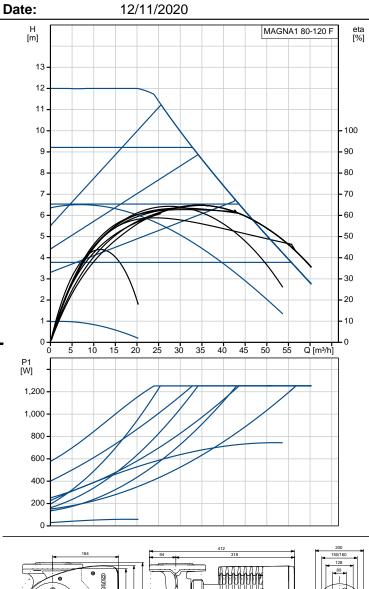


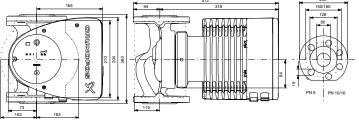
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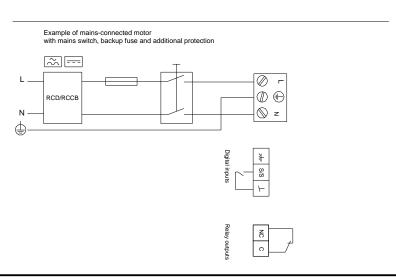




Description	Value
General information:	
Product name:	MAGNA1 80-120 F
Product No:	99221409
EAN number:	5712608943812
Technical:	
Head max:	120 dm
TF class:	110
Approvals on nameplate:	CE, VDE, EAC, CN ROHS, WEEE
Model:	С
Materials:	
Pump housing:	Cast iron
Pump housing:	EN-GJL-250
Pump housing:	ASTM A48-250B
Impeller:	PES 30%GF
Installation:	
Range of ambient temperature:	0 40 °C
Maximum operating pressure:	6 bar
Flange standard:	DIN
Pipe connection:	DN 80
Pressure rating:	PN 6
Port-to-port length:	360 mm
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-10 110 °C
Selected liquid temperature:	60 °C
Density:	983.2 kg/m <sup>3</sup>
Electrical data:	
Power input - P1:	30.5 1277 W
Mains frequency:	50 / 60 Hz
Rated voltage:	1 x 230 V
Maximum current consumption:	0.31 5.59 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.19
Net weight:	30.2 kg
Gross weight:	32.5 kg
Shipping volume:	0.071 m <sup>3</sup>
Country of origin:	DE
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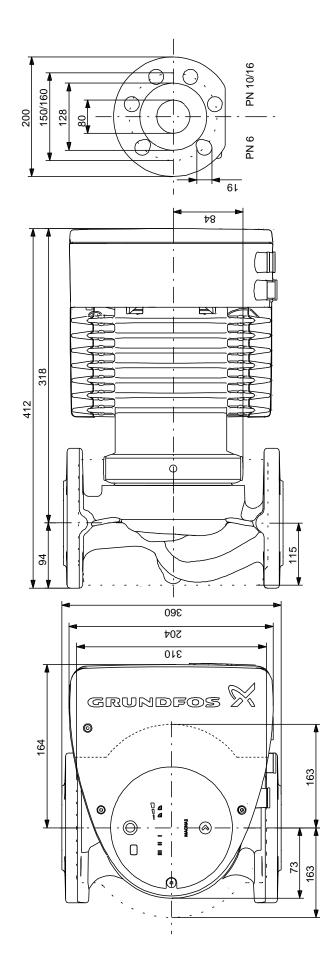




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## 99221409 MAGNA1 80-120 F



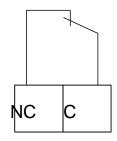
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



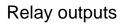
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Digital inputs



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

