

MAGNA3 40-40 F 220 1x230V PN16

Grundfos pump 97924273



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<https://www.lenntech.com/grundfos/MAGNA3/97924273/MAGNA3-40-40-F.html>

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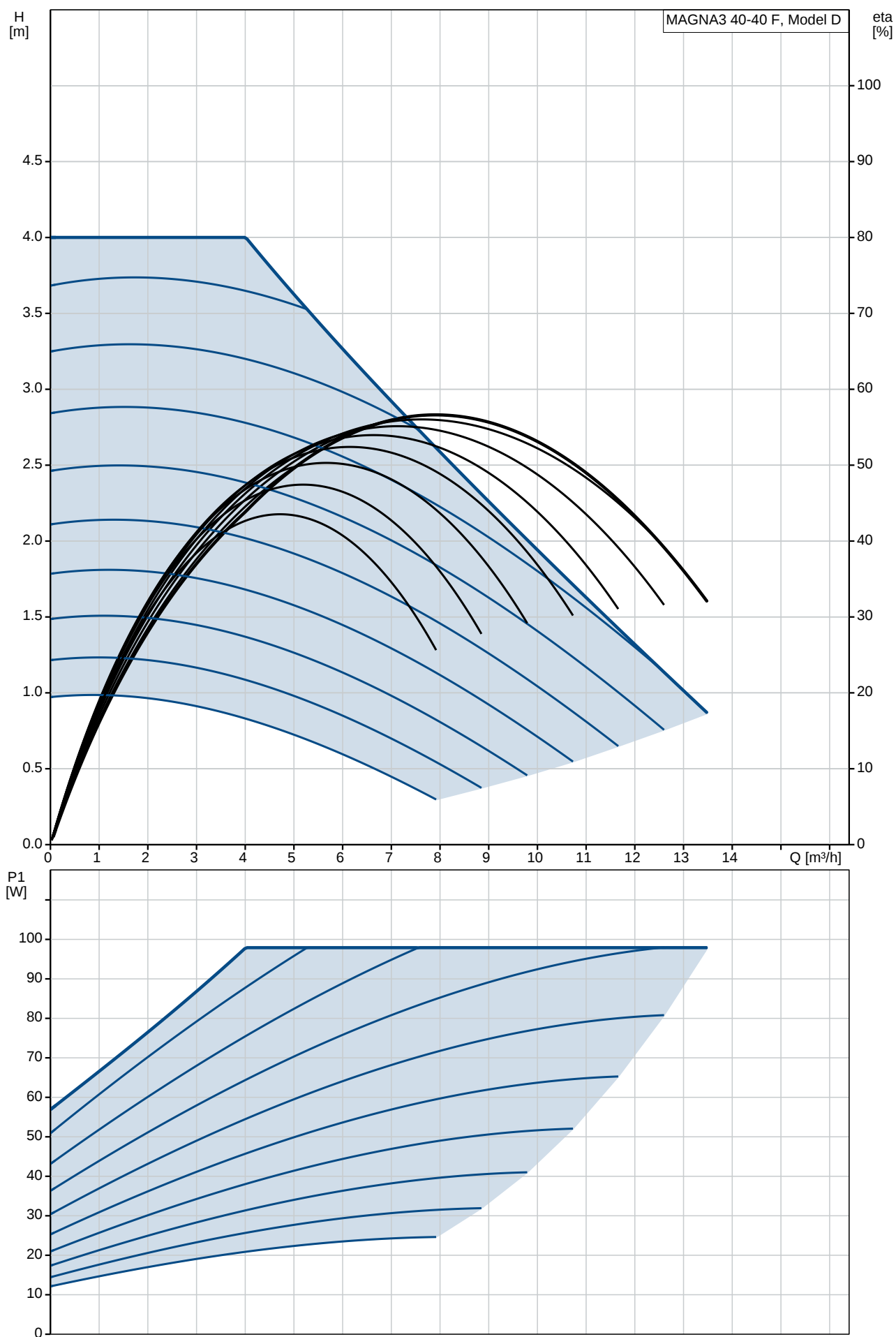
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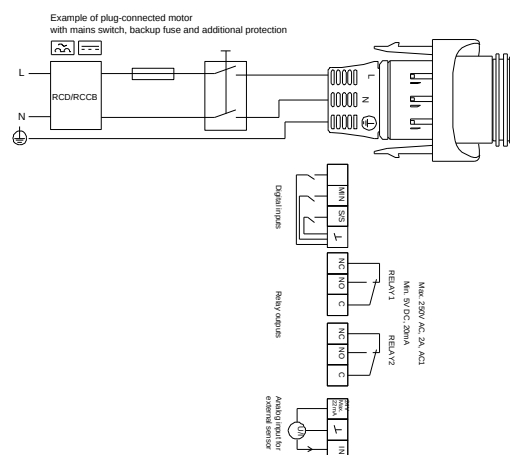
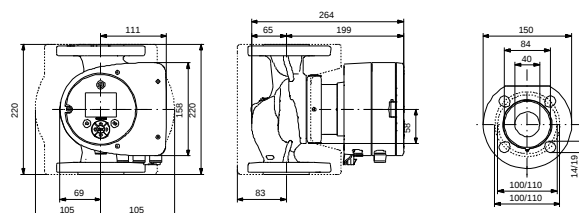
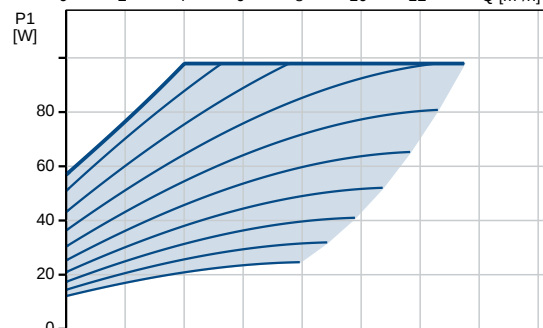
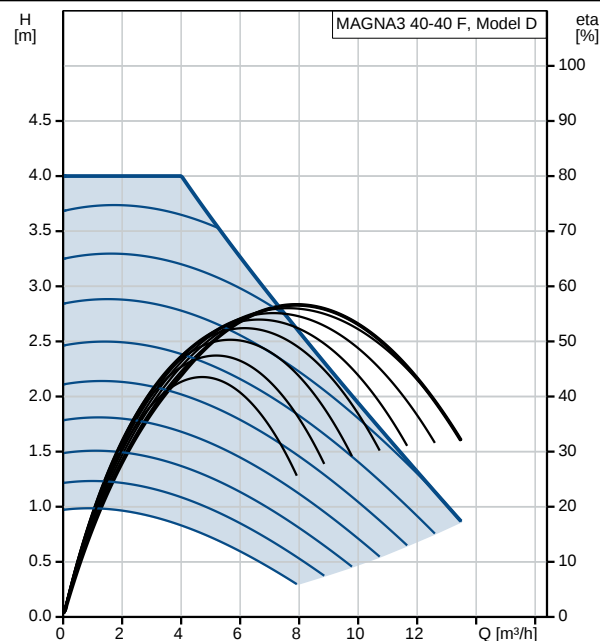
Position	Qty.	Description
	1	MAGNA3 40-40 F  Product No.: On request With its unrivalled efficiency, all-encompassing range and built-in communication capabilities, the MAGNA3 is ideal for engineers and specifiers looking to create high-performance heating and cooling systems. MAGNA3 is the ideal choice for almost any building project – old or new. The pump is of the canned-rotor type, which 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. The MAGNA3 is a pump with no maintenance requirements and with extremely low life cycle cost. Characteristic features • AUTOADAPT • FLOWADAPT and FLOWLIMIT (reduces the need for pump throttling valves) • Proportional-pressure control • Constant-pressure control • Constant-temperature control • Differential temperature control (requires an additional temperature sensor) • Constant-curve duty • Maximum and minimum curve duty • Automatic night setback • Heat energy monitor • No external motor protection required • Innovative clamp ring with only one screw enabling easy repositioning of the pump head • Insulating shells supplied with single-head pumps for heating systems • Large temperature range due to air cooled electronics Communication • Wireless communication with the Grundfos GO Remote app • Fieldbus communication via CIM modules • Digital inputs • Relay outputs • Analog input Product details The MAGNA3 is a single-phase pump and 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 (also available in stainless steel versions) • Carbon-fibre-reinforced composite rotor can • Stainless-steel bearing plate and rotor cladding • Aluminium alloy stator housing • Air-cooled power electronics 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. Liquid: Pumped liquid: Water Liquid temperature range: -10 .. 110 °C Liquid temperature during operation: 60 °C

Position	Qty.	Description
		Density: 983.2 kg/m³ Technical: Rated flow: 6.8 m³/h Rated head: 2.6 m TF class: 110 Approvals on nameplate: CE,VDE,EAC,CN ROHS,WEEE 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: 16 bar Flange standard: DIN Pipe connection: DN 40 Pressure rating: PN16 (@): 220 mm Electrical data: Power input - P1: 12 .. 98 W Mains frequency: 50 Hz Rated voltage: 1 x 230 V Maximum current consumption: 0.11 .. 0.87 A Enclosure class (IEC 34-5): X4D Insulation class (IEC 85): F Others: Energy (EEI): 0.18 Net weight: 9.92 kg Gross weight: 10.4 kg Shipping volume: 0.016 m³

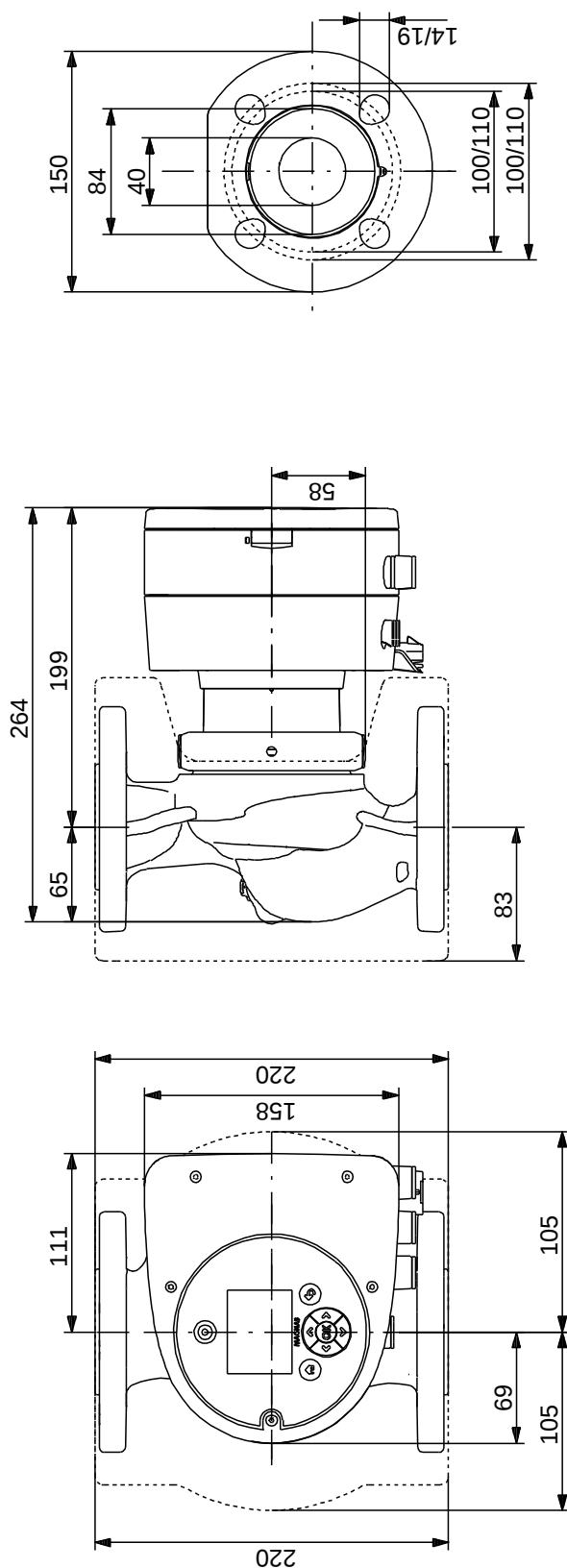
On request MAGNA3 40-40 F 50 Hz



Description	Value
General information:	
Product name:	MAGNA3 40-40 F
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	6.8 m³/h
Rated head:	2.6 m
Head max:	40 dm
TF class:	110
Approvals on nameplate:	CE, VDE, EAC, CN ROHS, WEEE D
Model:	
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:	16 bar
Flange standard:	DIN
Pipe connection:	DN 40
Pressure rating:	PN16
(@)	220 mm
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-10 .. 110 °C
Liquid temperature during operation:	60 °C
Density:	983.2 kg/m³
Electrical data:	
Power input - P1:	12 .. 98 W
Mains frequency:	50 Hz
Rated voltage:	1 x 230 V
Maximum current consumption:	0.11 .. 0.87 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.18
Net weight:	9.92 kg
Gross weight:	10.4 kg
Shipping volume:	0.016 m³



On request MAGNA3 40-40 F 50 Hz



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

Exploded view



Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list MAGNA3 40-40 F, Product No. On request
Valid from 3.6.2013 (1323)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
	Configuration file				1	pcs
-	Pump housing cpl.				1	pcs
6	Pump housing				1	
45	Neck ring cpl.				1	
-	Control box cpl.				1	pcs
	Screw w/washer				2	
1.a	Screw DELTA PT				5	
162	Controlboard cpl.				1	
163	Bottom				1	
163f	Screw DELTA PT				2	
+ 164	Box				1	
164a	Screw DELTA PT				4	
92	Clamp cpl.				1	pcs
163e	Fastening pin				1	pcs
- 301	Pump head				1	pcs
301a	O-ring				1	
301c	Leaf spring				1	pcs
301d	Pan head screw				2	pcs
450	Insulation shell				1	pcs
- 531	Sensor				1	pcs
531a	Seal cap				1	
534	Bracket				1	pcs
534a	Pan head thread forming screw				1	pcs

Disclaimer: The information about the Grundfos pump in this document may be outdated.

Data may be subject to alterations without further notice.

Please contact us to verify the data above is still accurate/up-to-date.

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