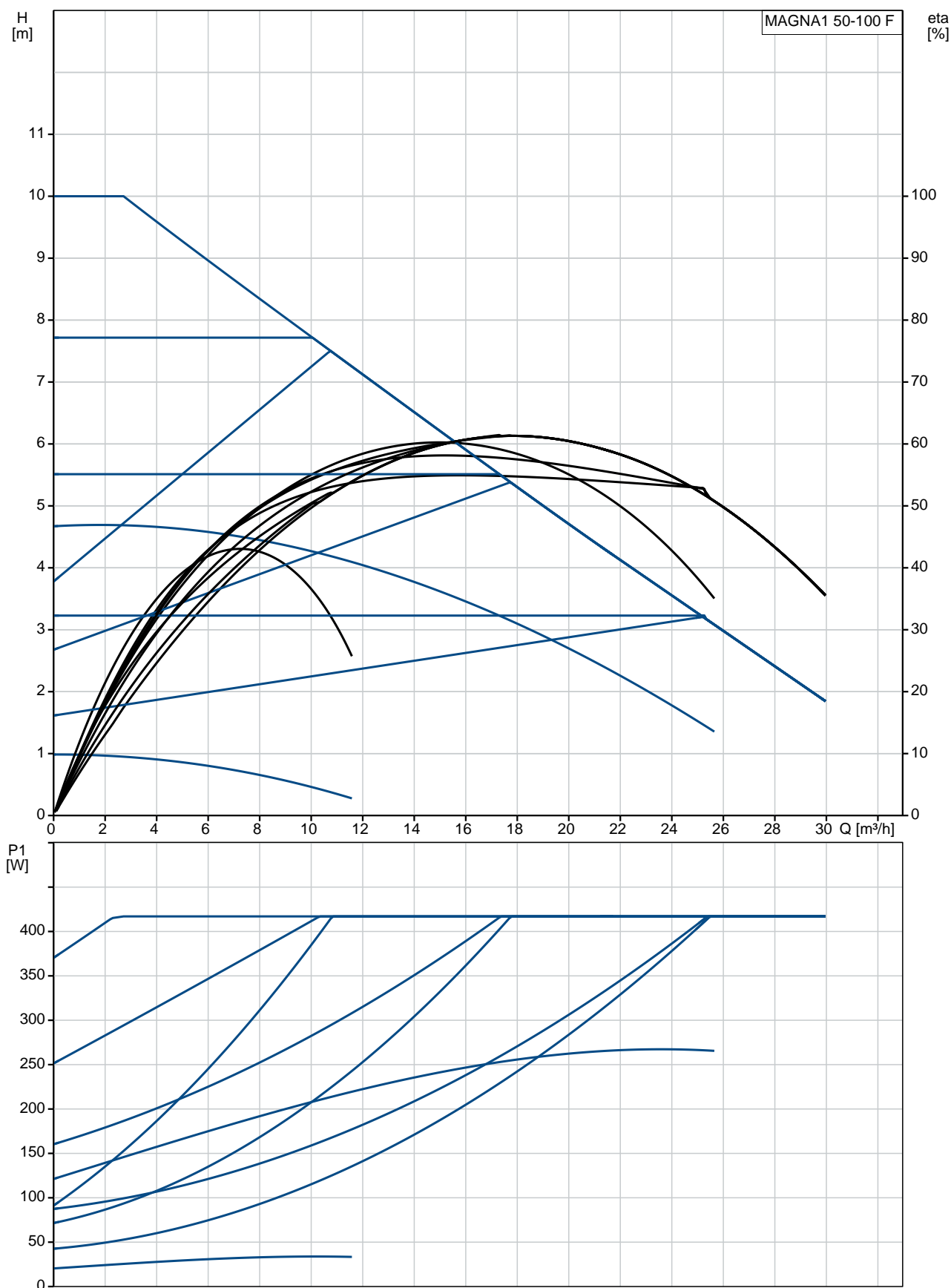


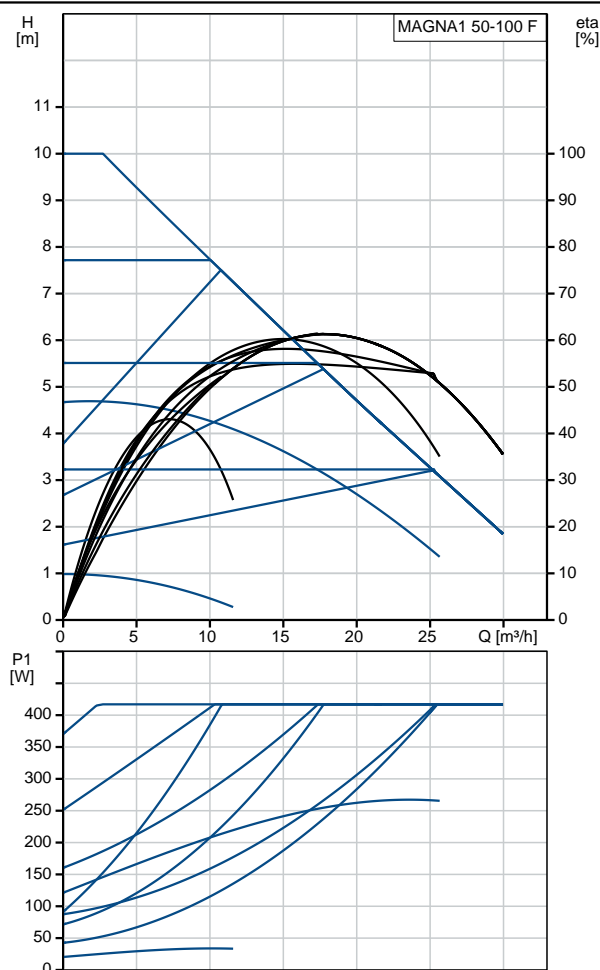
Qty.	Description
1	<p>MAGNA1 50-100 F</p>  <p>Note! Product picture may differ from actual product</p> <p>Product No.: 99221335</p> <p>The new MAGNA1 is the simple option for a job well done. It is the perfect choice when replacing older circulators and due to its compliance with the EuP 2015 regulations, substantial savings on electricity is a reality. The ideal choice for basic performance needs in applications where basic system control and monitoring is desired.</p> <ul style="list-style-type: none"> • 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. <p>MAGNA1 is the simple and efficient choice for most applications including</p> <ul style="list-style-type: none"> • Heating <ul style="list-style-type: none"> - Main pump - Mixing loops - Heating surfaces • Cooling <ul style="list-style-type: none"> - Air conditioning surfaces - Ground source heat pump systems - Smaller chiller applications <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -10 .. 110 °C</p> <p>Liquid temperature during operation: 60 °C</p> <p>Density: 983.2 kg/m³</p> <p>Technical:</p> <p>TF class: 110</p> <p>Approvals on nameplate: CE,VDE,EAC,CN ROHS,WEEE</p> <p>Materials:</p> <p>Pump housing: Cast iron EN-GJL-250 ASTM A48-250B</p> <p>Impeller: PES 30%GF</p> <p>Installation:</p> <p>Range of ambient temperature: 0 .. 40 °C</p> <p>Maximum operating pressure: 10 bar</p> <p>Flange standard: DIN</p> <p>Pipe connection: DN 50</p> <p>Pressure rating: PN6/10</p> <p>Port-to-port length: 280 mm</p>

Qty.	Description
	<p>Electrical data:</p> <p>Power input - P1: 20.91 .. 425 W</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 1 x 230 V</p> <p>Maximum current consumption: 0.22 .. 1.9 A</p> <p>Enclosure class (IEC 34-5): X4D</p> <p>Insulation class (IEC 85): F</p> <p>Others:</p> <p>Energy (EEI): 0.20</p> <p>Net weight: 18.3 kg</p> <p>Gross weight: 19.9 kg</p> <p>Shipping volume: 0.046 m³</p> <p>Finnish LVI No.: 4615195</p>

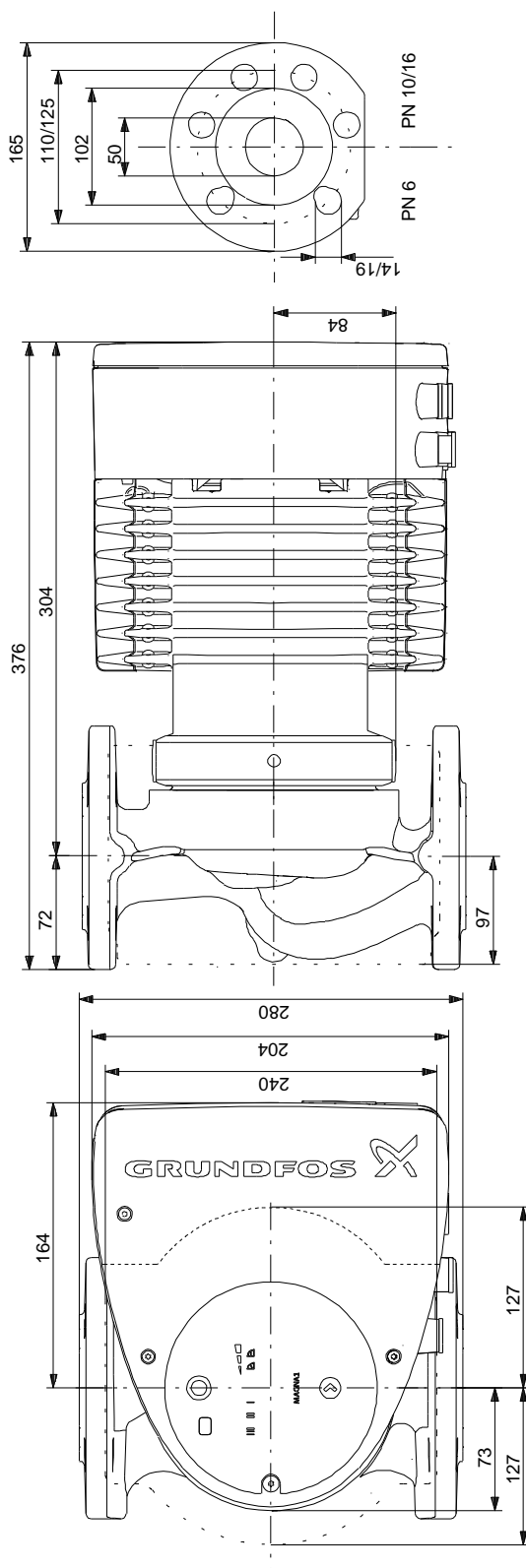
99221335 MAGNA1 50-100 F 50 Hz



Description	Value
General information:	
Product name:	MAGNA1 50-100 F
Product No:	99221335
EAN number:	5712608943089
Technical:	
Head max:	100 dm
TF class:	110
Approvals on nameplate:	CE,VDE,EAC,CN ROHS,WEEE
Model:	C
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:	10 bar
Flange standard:	DIN
Pipe connection:	DN 50
Pressure rating:	PN6/10
Port-to-port length:	280 mm
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-10 .. 110 °C
Liquid temperature during operation:	60 °C
Density:	983.2 kg/m ³
Electrical data:	
Power input - P1:	20.91 .. 425 W
Mains frequency:	50 Hz
Rated voltage:	1 x 230 V
Maximum current consumption:	0.22 .. 1.9 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEL):	0.20
Net weight:	18.3 kg
Gross weight:	19.9 kg
Shipping volume:	0.046 m ³
Finnish LVI No.:	4615195



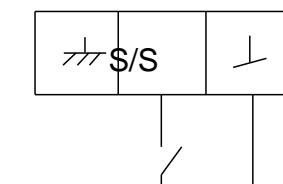
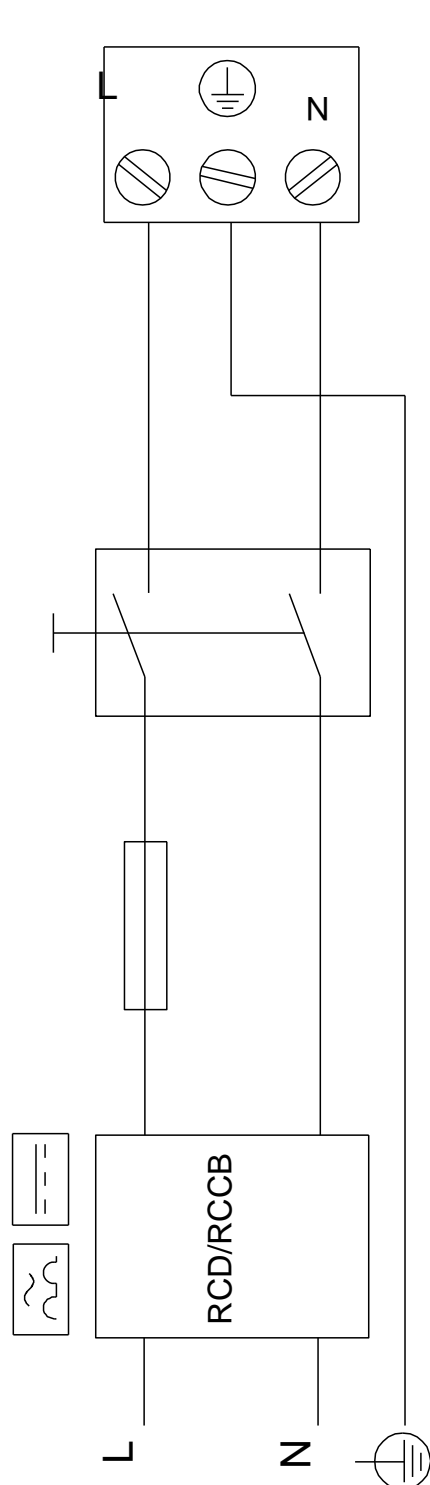
99221335 MAGNA1 50-100 F 50 Hz



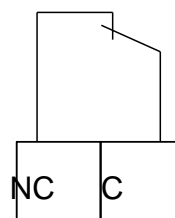
Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

99221335 MAGNA1 50-100 F 50 Hz

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



Digital inputs



Relay outputs

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