

Count	Description
1	<p data-bbox="223 336 446 369">MAGNA1 40-180 F</p>  <p data-bbox="614 638 1077 660">Product photo could vary from the actual product</p> <p data-bbox="223 667 494 694">Product No.: 99221307</p> <p data-bbox="223 698 1460 795">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 data-bbox="263 806 1348 1019" 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 data-bbox="223 1041 1037 1075">MAGNA1 is the simple and efficient choice for most applications including</p> <ul data-bbox="263 1075 726 1310" style="list-style-type: none"> • Heating <ul data-bbox="295 1108 526 1198" style="list-style-type: none"> - Main pump - Mixing loops - Heating surfaces • Cooling <ul data-bbox="295 1220 726 1310" style="list-style-type: none"> - Air conditioning surfaces - Ground source heat pump systems - Smaller chiller applications <p data-bbox="223 1366 303 1400">Liquid:</p> <p data-bbox="223 1400 726 1523"> Pumped liquid: Water Liquid temperature range: 14 .. 230 °F Selected liquid temperature: 140 °F Density: 61.35 lb/ft³ </p> <p data-bbox="223 1545 343 1579">Technical:</p> <p data-bbox="223 1579 941 1646"> TF class: 110 Approvals on nameplate: CE, VDE, EAC, CN ROHS, WEEE </p> <p data-bbox="223 1668 335 1702">Materials:</p> <p data-bbox="223 1702 782 1792"> Pump housing: Cast iron EN-GJL-250 ASTM A48-250B </p> <p data-bbox="223 1792 734 1825">Impeller: PES 30%GF</p> <p data-bbox="223 1848 359 1881">Installation:</p> <p data-bbox="223 1881 726 2060"> Range of ambient temperature: 32 .. 104 °F Maximum operating pressure: 145.04 psi Flange standard: DIN Pipe connection: DN 40 Pressure stage: PN 6/10 Port-to-port length: 9 7/8 in </p>



Company name:

Created by:

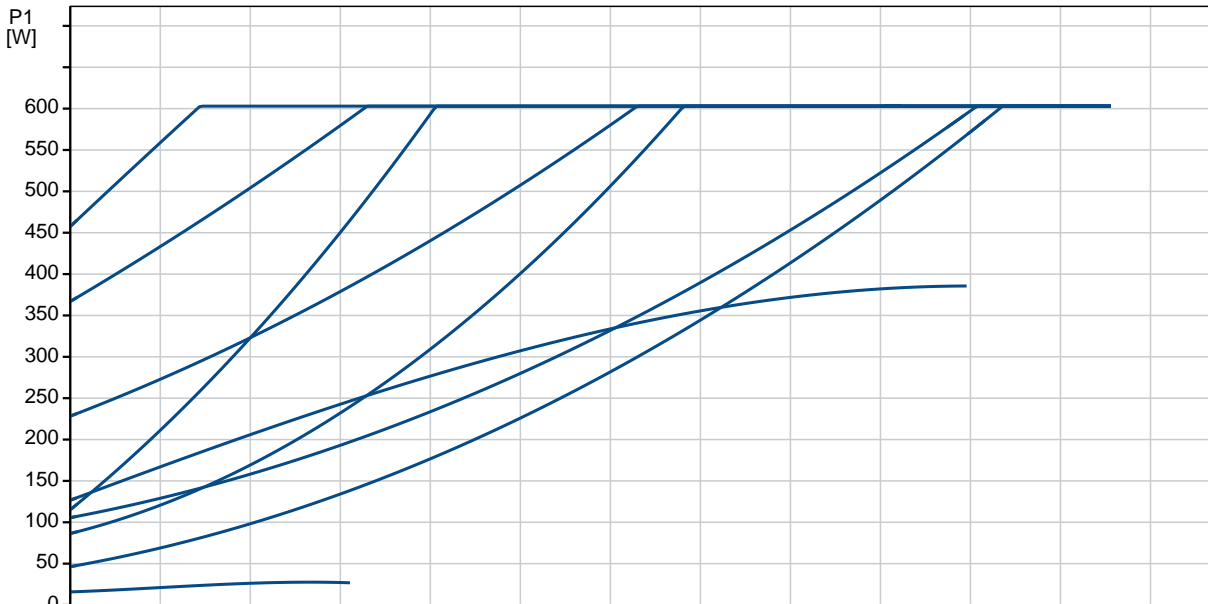
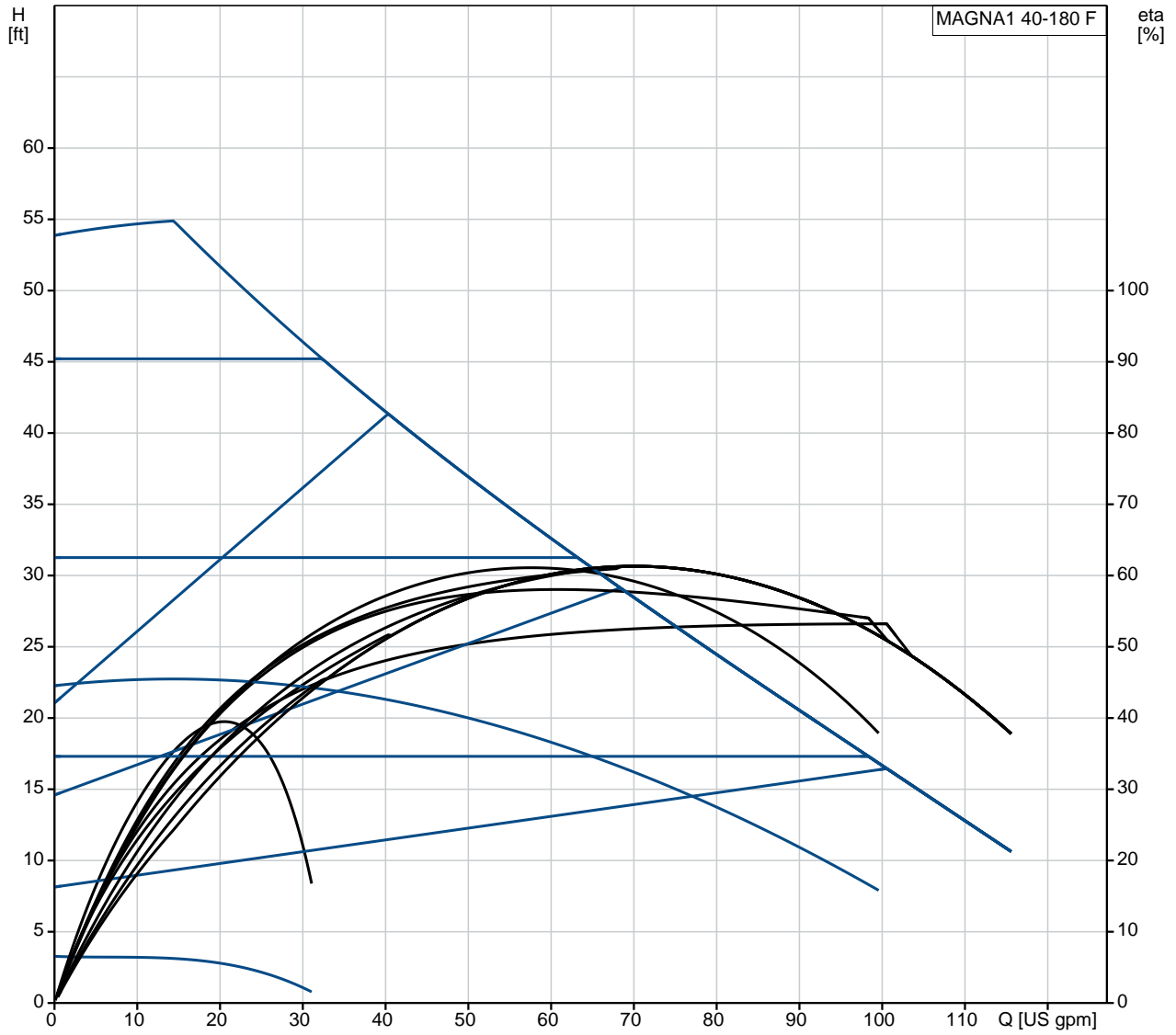
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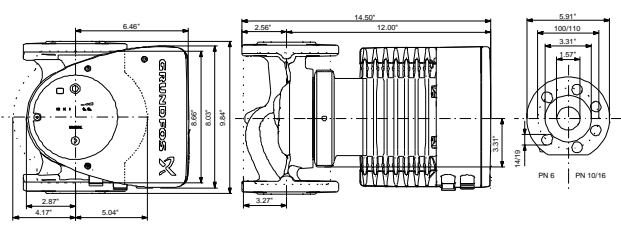
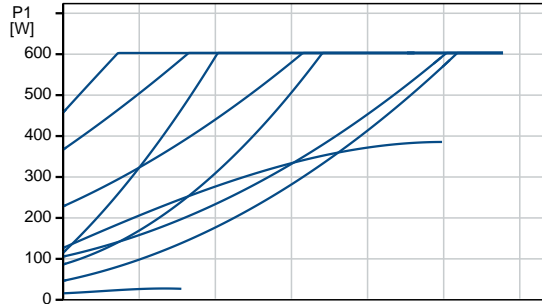
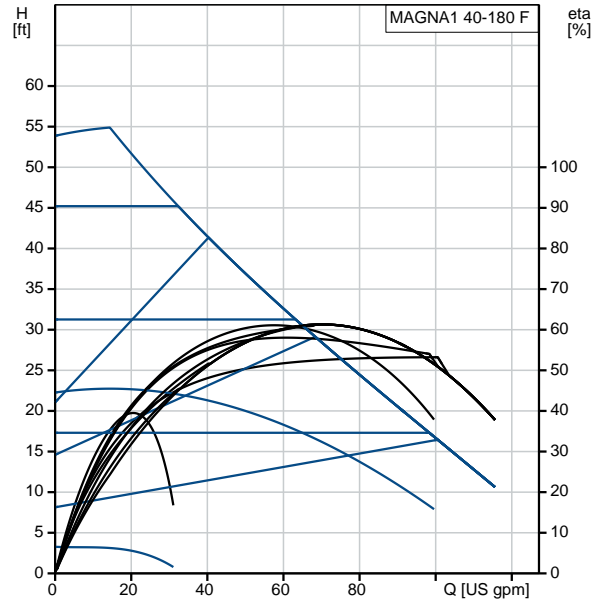
11/11/2020

Count	Description
	Electrical data:
	Power input - P1: 16.01 .. 615 W
	Main frequency: 50 / 60 Hz
	Rated voltage: 1 x 230 V
	Maximum current consumption: 0.22 .. 2.71 A
	Enclosure class (IEC 34-5): X4D
	Insulation class (IEC 85): F
	Others:
	Energy (EEI): 0.20
	Net weight: 35.9 lb
	Gross weight: 38.8 lb
	Shipping volume: 1.38 ft ³
	Finnish LVI No.: 4615192

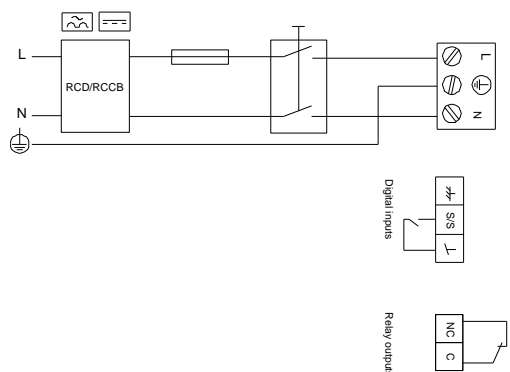
99221307 MAGNA1 40-180 F



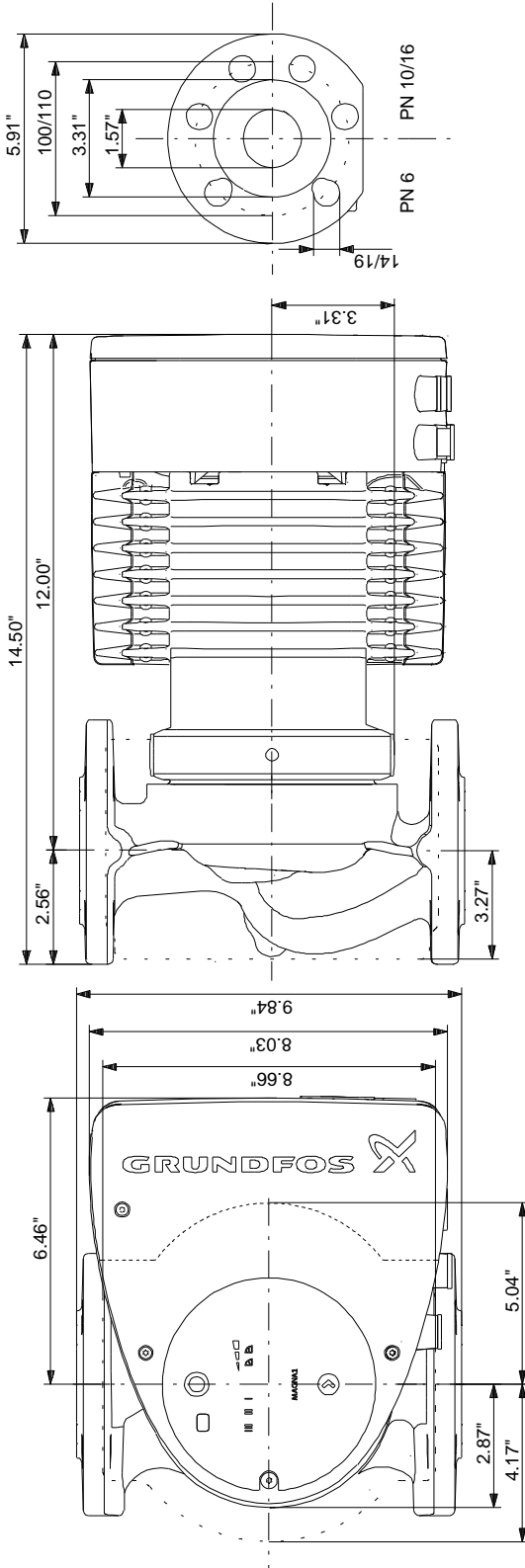
Description	Value
General information:	
Product name:	MAGNA1 40-180 F
Product No.:	99221307
EAN:	5712608942808
Technical:	
Head max:	59.06 ft
TF class:	110
Approvals on nameplate:	CE,VDE,EAC,CN ROHS,WEEE
Model:	C
Materials:	
Pump housing:	Cast iron
Pump housing:	EN-GJL-250
Pump housing:	ASTM A48-250B
Impeller:	PES 30%GF
Installation:	
Range of ambient temperature:	32 .. 104 °F
Maximum operating pressure:	145.04 psi
Flange standard:	DIN
Pipe connection:	DN 40
Pressure stage:	PN 6/10
Port-to-port length:	9 7/8 in
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	14 .. 230 °F
Selected liquid temperature:	140 °F
Density:	61.35 lb/ft ³
Electrical data:	
Power input - P1:	16.01 .. 615 W
Main frequency:	50 / 60 Hz
Rated voltage:	1 x 230 V
Maximum current consumption:	0.22 .. 2.71 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.20
Net weight:	35.9 lb
Gross weight:	38.8 lb
Shipping volume:	1.38 ft ³
Finnish LVI No.:	4615192



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



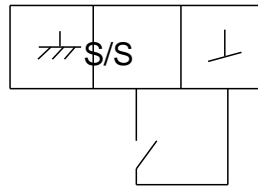
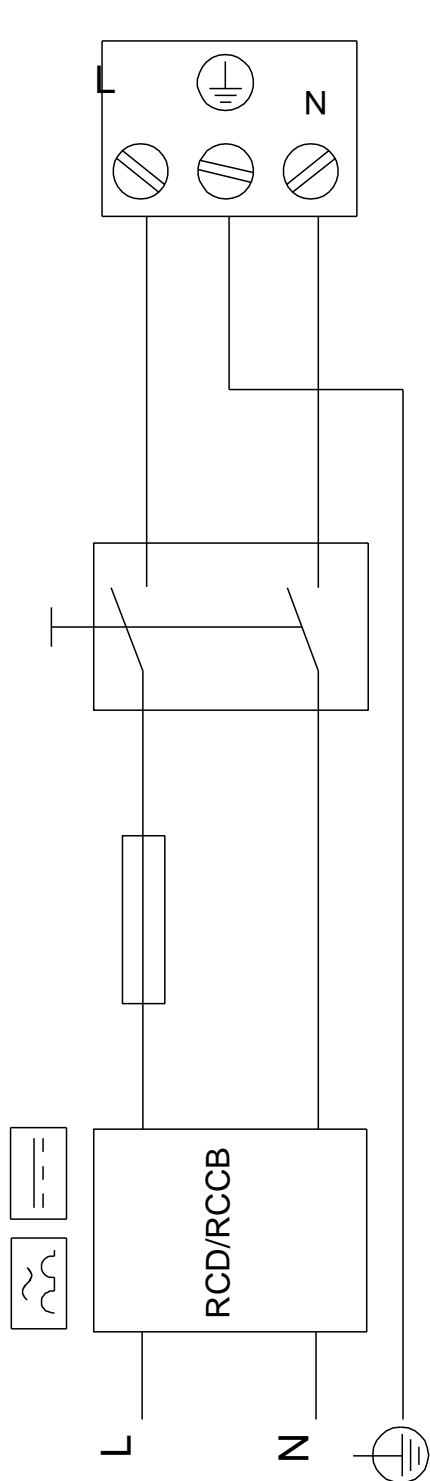
99221307 MAGNA1 40-180 F



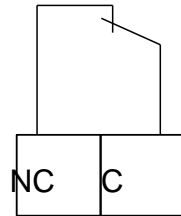
Note! All units are in [in] unless otherwise stated.
 Disclaimer: This simplified dimensional drawing does not show all details.

99221307 MAGNA1 40-180 F

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



Digital inputs



Relay outputs

All units are [in] unless otherwise presented.