

Submittal Data

PROJECT:	UNIT TAG:	QUANTITY:
REPRESENTATIVE: _____	TYPE OF SERVICE:	DATE: _____
ENGINEER:	SUBMITTED BY:	DATE:
CONTRACTOR:	APPROVED BY:	DATE:
	ORDER NO.:	DATE:

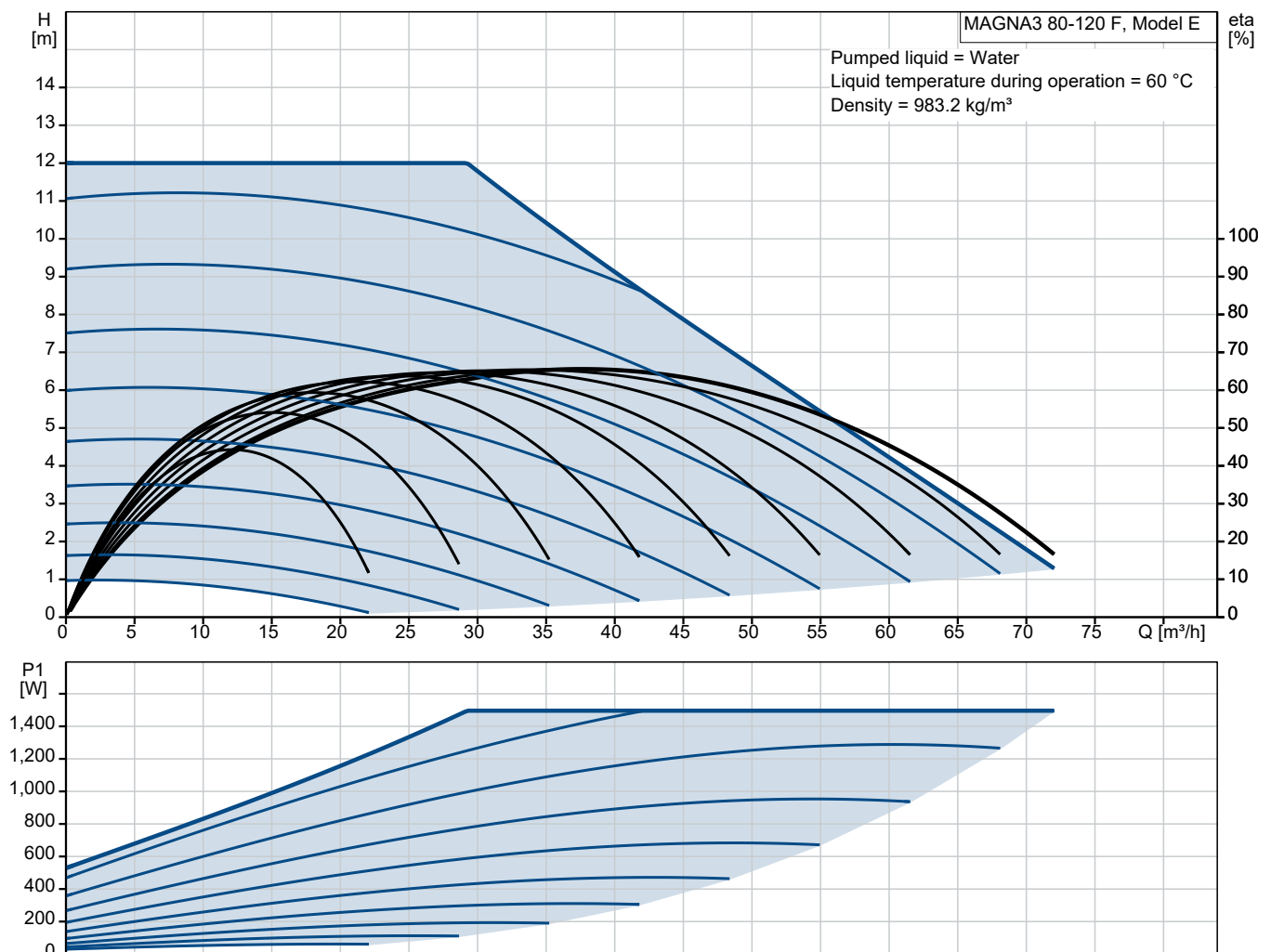


MAGNA3 80-120 F

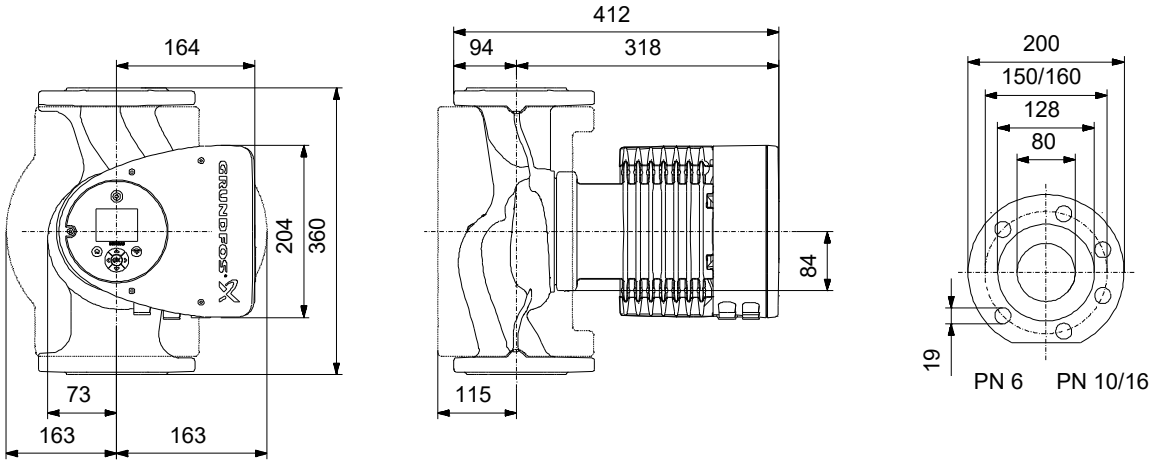
The MAGNA3 is the premium choice when system control and monitoring is key. MAGNA3 supports fieldbus by optional CIM modules, and connects directly with the Grundfos GO app via Bluetooth.

Note! Product picture may differ from actual product


Conditions of Service		Pump Data		Motor Data	
Liquid:	Water	Liquid temperature range:	-10 .. 110 °C	Mains frequency:	50 / 60 Hz
Temperature:	60 °C	Maximum ambient temperature:	40 °C	Enclosure class:	X4D
Specific Gravity:	0.985	Product number:	On request		



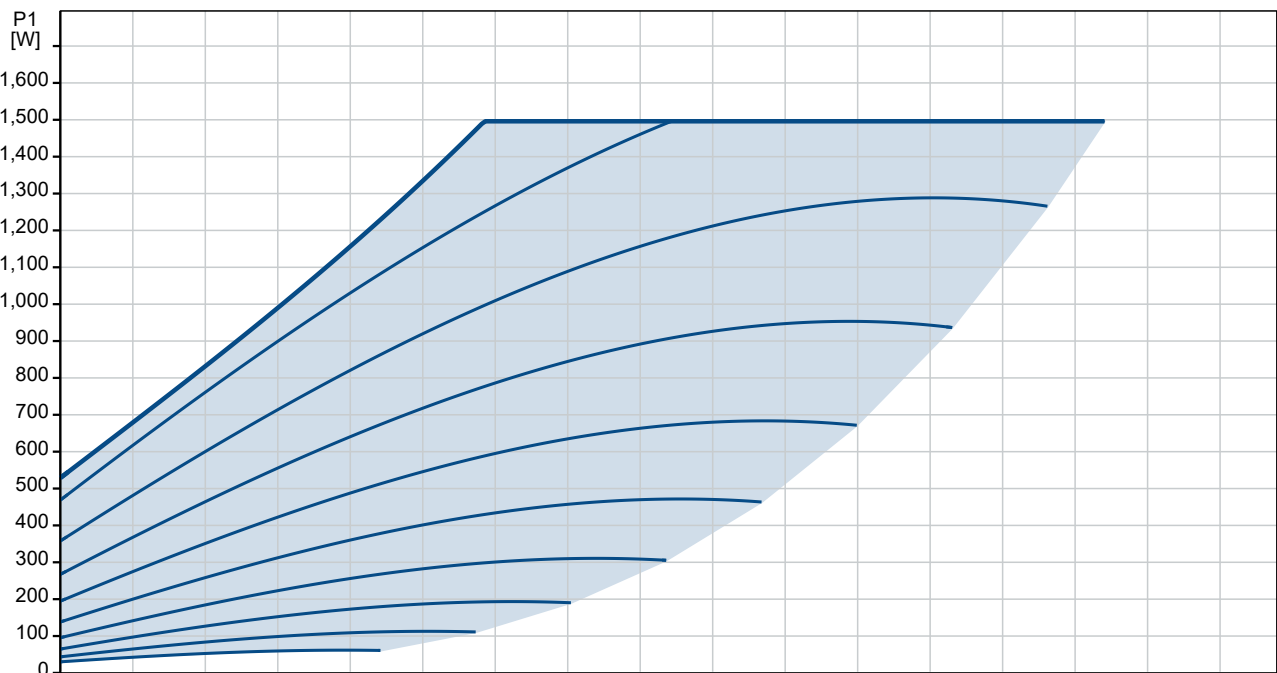
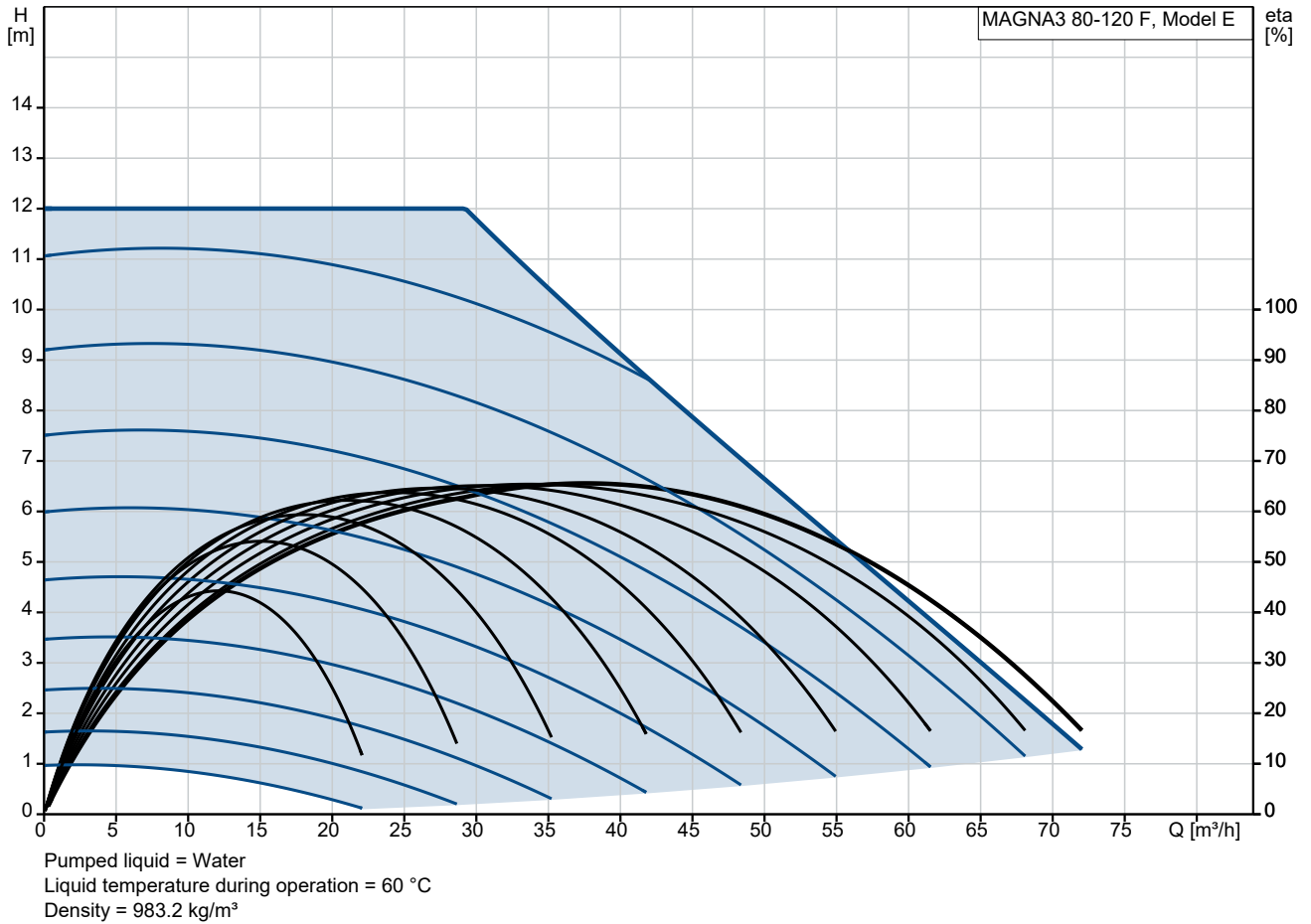
Submittal Data



Materials:
 Pump housing: Cast iron
 Pump housing: ASTM A48-250B
 Impeller: Composite

Qty.	Description
1	<p data-bbox="204 450 411 479">MAGNA3 80-120 F</p> <div data-bbox="240 512 544 797">  </div> <p data-bbox="592 795 1062 819">Note! Product picture may differ from actual product</p> <p data-bbox="204 826 478 853">Product No.: On request</p> <p data-bbox="204 918 1426 992">The Grundfos MAGNA3 circulator pump is the ideal choice for almost any building project – old or new. With its unrivalled energy efficiency, all-encompassing range and built-in communication capabilities, MAGNA3 is ideal for engineers and specifiers looking to create high-performance heating and cooling systems.</p> <p data-bbox="204 1003 1426 1077">The pump is maintenance-free due to the canned-rotor type design. This also 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.</p> <p data-bbox="204 1088 1453 1142">MAGNA3 features an intuitive display and allows you to connect wirelessly with the Grundfos GO Remote app, giving you access to advanced reporting and monitoring.</p> <p data-bbox="204 1149 1398 1198">MAGNA3 model E has Bluetooth, which allows you to connect directly to Grundfos Go app on your smart phone without any need for a dongle.</p> <p data-bbox="204 1205 1426 1256">The pump includes fieldbus communication via CIM modules as well as analog and digital inputs and configurable relays.</p> <p data-bbox="204 1263 1453 1314">Control features include AUTOADAPT and FLOWADAPT. FLOWADAPT which reduces the need for throttling valves, thus cutting costs on system components.</p> <p data-bbox="204 1321 1212 1350">MAGNA3 is the superior choice for a wide range of heating and cooling applications, including:</p> <ul data-bbox="204 1357 943 1500" style="list-style-type: none"> • Mixing loops Heating surfaces Air conditioning surfaces Ground-source heat pump systems Smaller chiller applications. <p data-bbox="204 1507 1406 1559">MAGNA3 is a single-phase pump and characterised by having the controller and control display integrated in the control box. The pump also has a built-in differential-pressure and temperature sensor.</p> <p data-bbox="204 1565 1445 1639">The pump housing is available in both cast-iron and stainless-steel versions. The composite rotor can is carbon-fibre reinforced, the bearing plate and rotor cladding are made of stainless steel and the stator housing is made of aluminium. The power electronics are air-cooled.</p> <p data-bbox="204 1646 1453 1720">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.</p>

On request MAGNA3 80-120 F



Project:

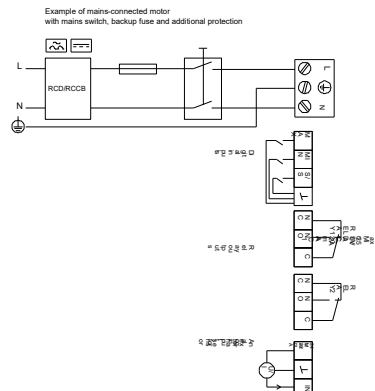
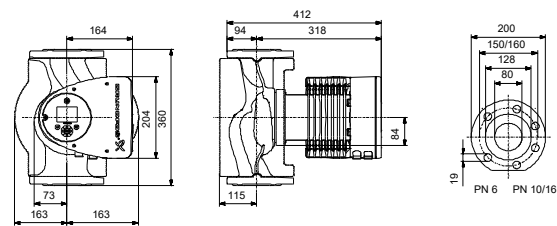
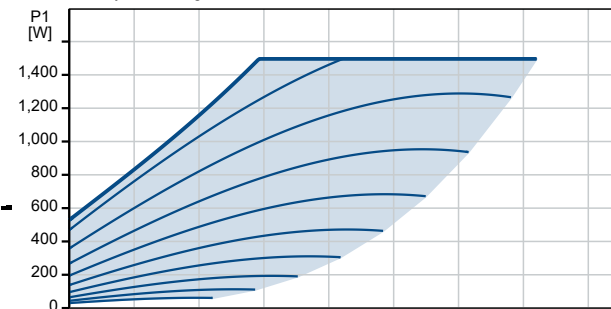
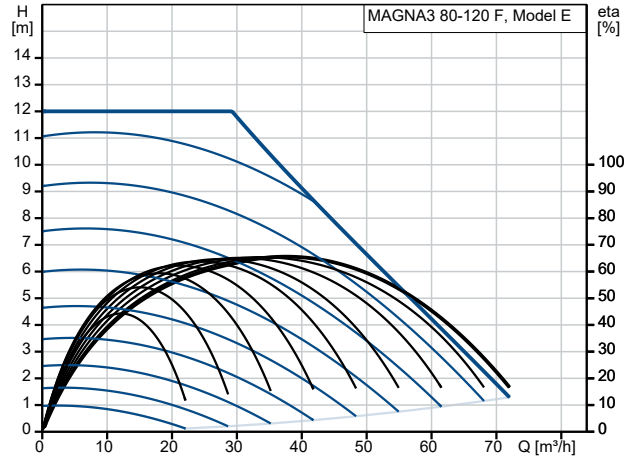
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Client:

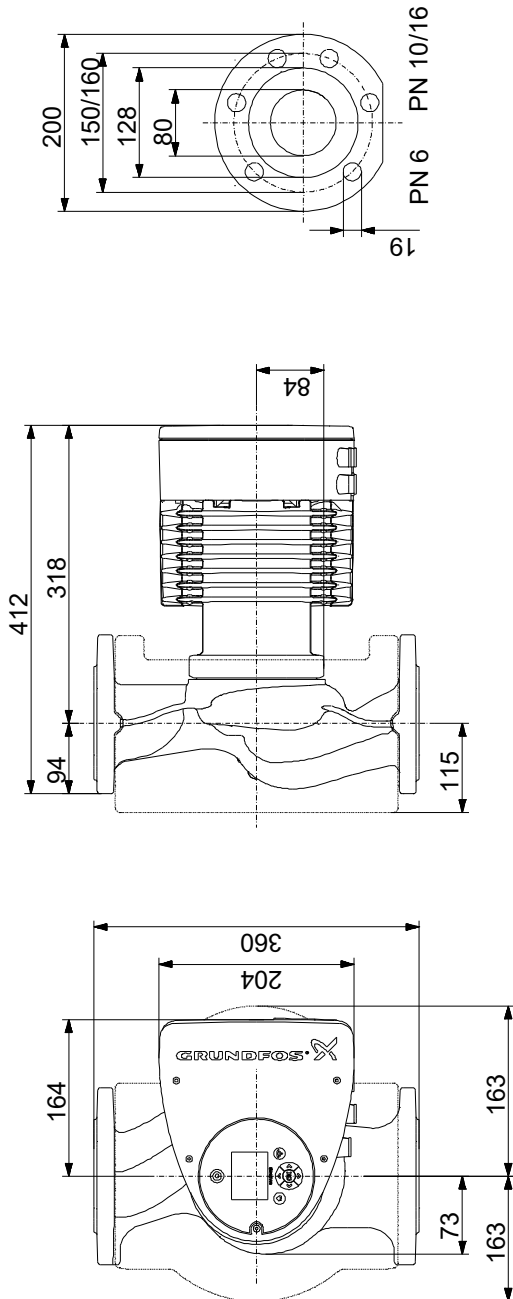
Client Number:

Contact:

Description	Value
General information:	
Product name:	MAGNA3 80-120 F
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	37.41 m ³ /h
Rated head:	9.79 m
Maximum head:	120 dm
TF class:	110
Approvals:	CE, VDE
Model:	E
Materials:	
Pump housing:	Cast iron
Pump housing:	EN 1561 EN-GJL-250
Pump housing:	ASTM A48-250B
Impeller:	Composite
Installation:	
Range of ambient temperature:	0 .. 40 °C
Maximum operating pressure:	16 bar
Type of connection:	DIN
Size of connection:	DN 80
Pressure rating for connection:	PN 16
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 ³
Electrical data:	
Maximum power input - P1:	1496 W
P1 min.:	31 W
Mains frequency:	50 / 60 Hz
Rated voltage:	1 x 230 V
Minimum current consumption:	0.32 A
Maximum current consumption:	6.65 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.17
Net weight:	29.7 kg
Gross weight:	32.4 kg
Shipping volume:	0.071 m ³
Sales region:	D
Country of origin:	DE
Custom tariff no.:	84137030
Environmental approvals:	WEEE



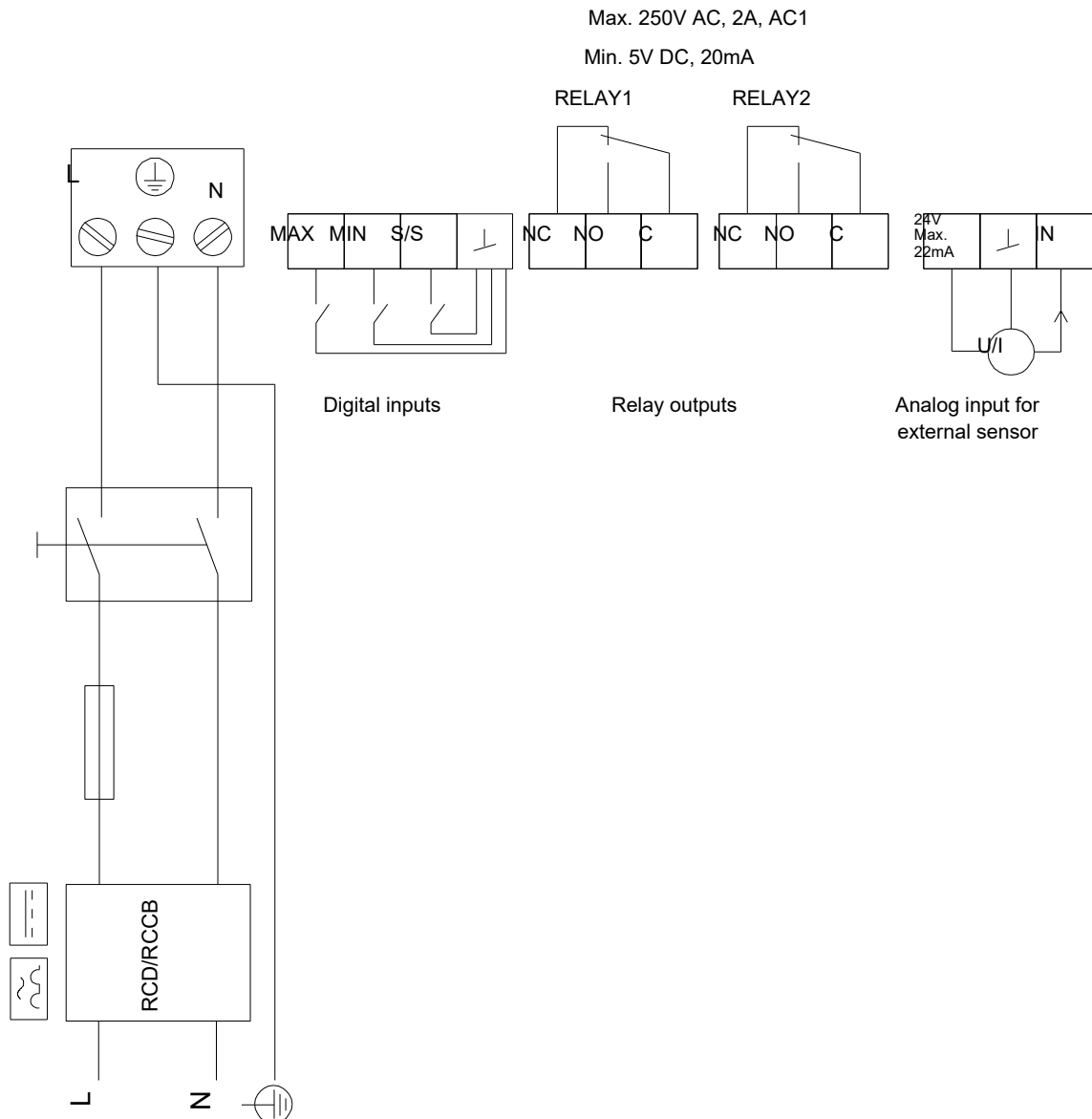
On request MAGNA3 80-120 F



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

On request MAGNA3 80-120 F

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



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

