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	1	<p><b>MAGNA3 80-100 F N</b></p>  <p>Product No.: <a href="#">98126858</a></p> <p><b>MAGNA3 – More than a pump</b>            With its unrivalled efficiency, all-encompassing range and built-in communication capabilities plus functionalities replacing system components, the MAGNA3 is ideal for engineers and specifiers looking to create high-performance systems for buildings.</p> <p>This pump in the Grundfos Master Class will fit both heating and cooling applications perfectly, making it the obvious choice for almost any building project – old or new.</p> <p>The MAGNA3 is of the canned-rotor type, i.e. 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>The innovative clamp with only one screw enables easy repositioning of the pump head.</p> <p>The MAGNA3 is a pump with no maintenance requirements and with extremely low Life Cycle Cost.</p> <p>The pump is characterised by the following:</p> <ul style="list-style-type: none"> <li>• controller integrated in the control box</li> <li>• control panel with TFT display on the control box</li> <li>• control box prepared for optional CIM modules</li> <li>• built-in differential-pressure and temperature sensor</li> <li>• cast-iron pump housing (depending on model)</li> <li>• carbon-fiber-reinforced composite rotor can</li> <li>• stainless-steel bearing plate and rotor cladding</li> <li>• aluminium alloy stator housing</li> <li>• air-cooled power electronics</li> </ul> <p>The MAGNA3 is a single-phase pump.</p> <p><b>Characteristic features</b></p> <ul style="list-style-type: none"> <li>• AUTOADAPT.</li> <li>• FLOWADAPT and FLOWLIMIT (more than a pump function as it reduces the need for pump throttling valves).</li> <li>• Proportional-pressure control.</li> <li>• Constant-pressure control.</li> <li>• Constant-temperature control.</li> <li>• Constant-curve duty.</li> <li>• Max. or min. curve duty.</li> <li>• Automatic Night Setback.</li> <li>• No external motor protection required.</li> <li>• Insulating shells supplied with single-head pumps for heating systems.</li> <li>• Large temperature range where the liquid temperature and the ambient temperature are independent of each other.</li> </ul> <p><b>Communication</b>            The MAGNA3 enables communication via the following:</p> <ul style="list-style-type: none"> <li>• wireless Grundfos GO Remote</li> <li>• fieldbus communication via CIM modules</li> <li>• digital inputs</li> <li>• relay outputs</li> <li>• analog input (more than a pump function as heat energy meter)</li> </ul>

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		<p>Motor and electronic controller</p> <p>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.</p> <p>The pump speed is controlled by an integrated frequency converter.</p> <p>A differential-pressure and temperature sensor is incorporated in the pump.</p> <p><b>Liquid:</b></p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: 14 .. 230 °F</p> <p>Liquid temp: 140 °F</p> <p>Density: 61.35 lb/ft<sup>3</sup></p> <p><b>Technical:</b></p> <p>TF class: 110</p> <p>Approvals on nameplate: ETL, FCC W_RADIAL, UL DW 372</p> <p><b>Materials:</b></p> <p>Pump housing: Stainless steel EN 1.4308 ASTM 351 CF8</p> <p>Impeller: PES 30%GF</p> <p><b>Installation:</b></p> <p>Range of ambient temperature: 32 .. 104 °F</p> <p>Maximum operating pressure: 174 psi</p> <p>Flange standard: GF</p> <p>Pipe connection: GF80</p> <p>Pressure stage: PN12</p> <p>Port-to-port length: 14 3/16 in</p> <p><b>Electrical data:</b></p> <p>Power input - P1: 31 .. 1041 W</p> <p>Main frequency: 60 Hz</p> <p>Rated voltage: 1 x 208-230 V</p> <p>Maximum current consumption: 0.32 .. 4.6 A</p> <p>Enclosure class (IEC 34-5): X4D</p> <p>Insulation class (IEC 85): F</p> <p><b>Others:</b></p> <p>Energy (EEI): 0.17</p> <p>Net weight: 66 lb</p> <p>Gross weight: 71.8 lb</p> <p>Shipping volume: 2.54 ft<sup>3</sup></p>

Description	Value
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**General information:**

Product name:	MAGNA3 80-100 F N
Product No.:	98126858
EAN:	5710629500205
Price:	On request

**Technical:**

Head max:	32.81 ft
TF class:	110
Approvals on nameplate:	ETL, FCC W_RADIAL, UL DW 372
Model:	A

**Materials:**

Pump housing:	Stainless steel EN 1.4308
Impeller:	ASTM 351 CF8 PES 30%GF

**Installation:**

Range of ambient temperature:	32 .. 104 °F
Maximum operating pressure:	174 psi
Flange standard:	GF
Pipe connection:	GF80
Pressure stage:	PN12
Port-to-port length:	14 3/16 in

**Liquid:**

Pumped liquid:	Water
Liquid temperature range:	14 .. 230 °F
Liquid temp:	140 °F
Density:	61.35 lb/ft³

**Electrical data:**

Power input - P1:	31 .. 1041 W
Main frequency:	60 Hz
Rated voltage:	1 x 208-230 V
Maximum current consumption:	0.32 .. 4.6 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F

**Others:**

Energy (EEI):	0.17
Net weight:	66 lb
Gross weight:	71.8 lb
Shipping volume:	2.54 ft³

