


Position	Count	Description
	1	<p>MAGNA3 D 80-100 F</p>  <p style="text-align: center;">Product photo could vary from the actual product</p> <p>Product No.: 98126864</p> <p>MAGNA3 – More than a pump 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"> • 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 (depending on model) • carbon-fiber-reinforced composite rotor can • stainless-steel bearing plate and rotor cladding • aluminium alloy stator housing • air-cooled power electronics <p>The MAGNA3 is a single-phase pump.</p> <p>Characteristic features</p> <ul style="list-style-type: none"> • AUTOADAPT. • FLOWADAPT and FLOWLIMIT (more than a pump function as it reduces the need for pump throttling valves). • Proportional-pressure control. • Constant-pressure control. • Constant-temperature control. • Constant-curve duty. • Max. or min. curve duty. • Automatic Night Setback. • No external motor protection required. • Insulating shells supplied with single-head pumps for heating systems. • Large temperature range where the liquid temperature and the ambient temperature are independent of each other. <p>Communication</p> <p>The MAGNA3 enables communication via the following:</p> <ul style="list-style-type: none"> • wireless Grundfos GO Remote

Position	Count	Description																																																				
		<ul style="list-style-type: none"> • fieldbus communication via CIM modules • digital inputs • relay outputs • analog input (more than a pump function as heat energy meter) <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>Liquid:</p> <table border="0"> <tr> <td>Pumped liquid:</td> <td>Water</td> </tr> <tr> <td>Liquid temperature range:</td> <td>14 .. 230 °F</td> </tr> <tr> <td>Liquid temp:</td> <td>140 °F</td> </tr> <tr> <td>Density:</td> <td>61.35 lb/ft³</td> </tr> </table> <p>Technical:</p> <table border="0"> <tr> <td>TF class:</td> <td>110</td> </tr> <tr> <td>Approvals on nameplate:</td> <td>ETL, FCC W_RADIAL</td> </tr> </table> <p>Materials:</p> <table border="0"> <tr> <td>Pump housing:</td> <td>Cast iron</td> </tr> <tr> <td></td> <td>EN-GJL-250</td> </tr> <tr> <td></td> <td>ASTM A48-250B</td> </tr> <tr> <td>Impeller:</td> <td>PES 30%GF</td> </tr> </table> <p>Installation:</p> <table border="0"> <tr> <td>Range of ambient temperature:</td> <td>32 .. 104 °F</td> </tr> <tr> <td>Maximum operating pressure:</td> <td>174 psi</td> </tr> <tr> <td>Flange standard:</td> <td>GF</td> </tr> <tr> <td>Pipe connection:</td> <td>GF80</td> </tr> <tr> <td>Pressure stage:</td> <td>PN12</td> </tr> <tr> <td>Port-to-port length:</td> <td>14 3/16 in</td> </tr> </table> <p>Electrical data:</p> <table border="0"> <tr> <td>Power input - P1:</td> <td>32 .. 1052 W</td> </tr> <tr> <td>Main frequency:</td> <td>60 Hz</td> </tr> <tr> <td>Rated voltage:</td> <td>1 x 208-230 V</td> </tr> <tr> <td>Maximum current consumption:</td> <td>0.32 .. 4.62 A</td> </tr> <tr> <td>Enclosure class (IEC 34-5):</td> <td>X4D</td> </tr> <tr> <td>Insulation class (IEC 85):</td> <td>F</td> </tr> </table> <p>Others:</p> <table border="0"> <tr> <td>Energy (EEI):</td> <td>0.17</td> </tr> <tr> <td>Net weight:</td> <td>117 lb</td> </tr> <tr> <td>Gross weight:</td> <td>138 lb</td> </tr> <tr> <td>Shipping volume:</td> <td>7.35 ft³</td> </tr> </table>	Pumped liquid:	Water	Liquid temperature range:	14 .. 230 °F	Liquid temp:	140 °F	Density:	61.35 lb/ft ³	TF class:	110	Approvals on nameplate:	ETL, FCC W_RADIAL	Pump housing:	Cast iron		EN-GJL-250		ASTM A48-250B	Impeller:	PES 30%GF	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	Power input - P1:	32 .. 1052 W	Main frequency:	60 Hz	Rated voltage:	1 x 208-230 V	Maximum current consumption:	0.32 .. 4.62 A	Enclosure class (IEC 34-5):	X4D	Insulation class (IEC 85):	F	Energy (EEI):	0.17	Net weight:	117 lb	Gross weight:	138 lb	Shipping volume:	7.35 ft ³
Pumped liquid:	Water																																																					
Liquid temperature range:	14 .. 230 °F																																																					
Liquid temp:	140 °F																																																					
Density:	61.35 lb/ft ³																																																					
TF class:	110																																																					
Approvals on nameplate:	ETL, FCC W_RADIAL																																																					
Pump housing:	Cast iron																																																					
	EN-GJL-250																																																					
	ASTM A48-250B																																																					
Impeller:	PES 30%GF																																																					
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																																																					
Power input - P1:	32 .. 1052 W																																																					
Main frequency:	60 Hz																																																					
Rated voltage:	1 x 208-230 V																																																					
Maximum current consumption:	0.32 .. 4.62 A																																																					
Enclosure class (IEC 34-5):	X4D																																																					
Insulation class (IEC 85):	F																																																					
Energy (EEI):	0.17																																																					
Net weight:	117 lb																																																					
Gross weight:	138 lb																																																					
Shipping volume:	7.35 ft ³																																																					

Description	Value
General information:	
Product name:	MAGNA3 D 80-100 F
Product No.:	98126864
EAN:	5710629500267
Price:	On request
Technical:	
Head max:	32.81 ft
TF class:	110
Approvals on nameplate:	ETL, FCC W_RADIAL
Model:	A
Materials:	
Pump housing:	Cast iron EN-GJL-250 ASTM A48-250B
Impeller:	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/ft ³
Electrical data:	
Power input - P1:	32 .. 1052 W
Main frequency:	60 Hz
Rated voltage:	1 x 208-230 V
Maximum current consumption:	0.32 .. 4.62 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.17
Net weight:	117 lb
Gross weight:	138 lb
Shipping volume:	7.35 ft ³

