### **Submittal Data**

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



#### MAGNA3 100-120 GF

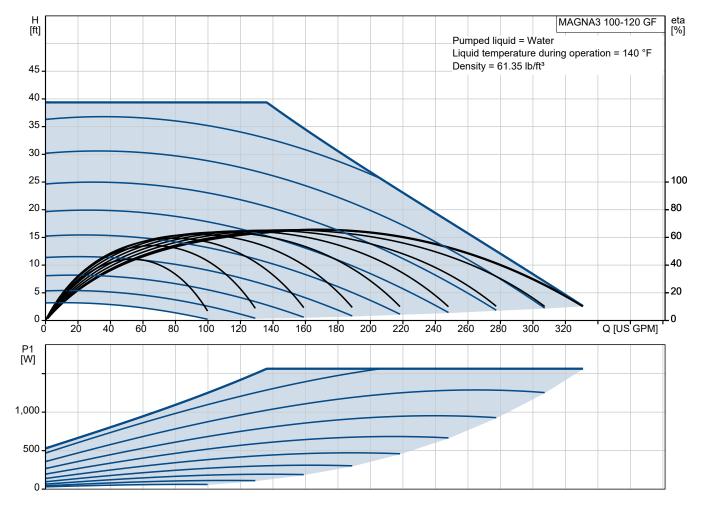
The MAGNA3 is the premium choice when system control and monitoring is key. MAGNA3 supports fieldbus by optional CIM modules, and connects directly with the Grundfos GO app via Bluetooth.

Note! Product picture may differ from actual product

Conditions	of Service
Liquid:	Water
Temperature:	140 °F
Specific Gravity:	0.985

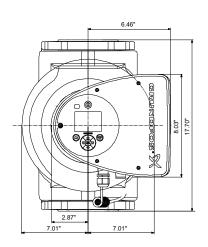
Pump Data	
Liquid temperature range:	14 230 °F
Maximum ambient temperature:	104 °F
Flange standard:	GF
Pipe connection:	GF100
Product number:	98126860

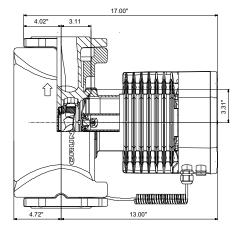
Motor Data	3
Mains frequency:	60 Hz
Enclosure class:	X4D

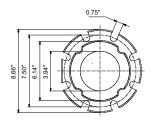


1

# Submittal Data







Materials:

Pump housing: Cast iron

Pump housing: ASTM A48-250B Impeller: Composite



**Date:** 19/07/2024

Qty. | Description

1 MAGNA3 100-120 GF



Note! Product picture may differ from actual product

Product No.: 98126860

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.

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

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.

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.

The pump includes fieldbus communication via CIM modules as well as analog and digital inputs and configurable relays.

Control features include AUTOADAPT and FLOWADAPT. FLOWADAPT which reduces the need for throttling valves, thus cutting costs on system components.

MAGNA3 is the superior choice for a wide range of heating and cooling applications, including:

Mixing loops

Heating surfaces

Air conditioning surfaces

Ground-source heat pump systems

Smaller chiller applications.

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.

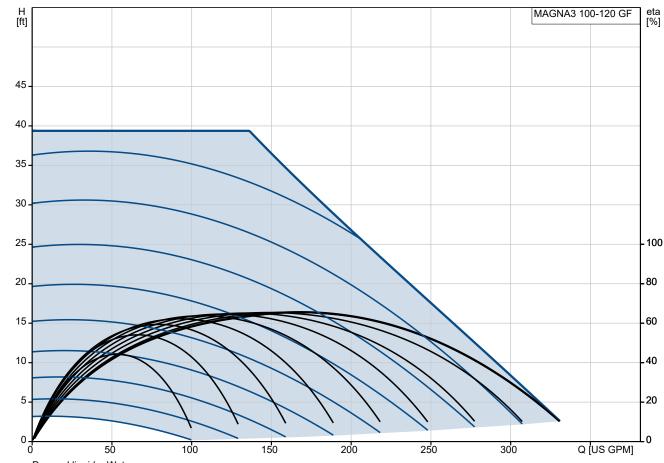
The pump housing is available in both cast-iron and stainless-steel versions. The composite rotor can is carbon-fibre reinforced, the bearing plate and rotor cladding are made of stainless steel and the stator housing is made of aluminium. The power electronics are air-cooled.

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.

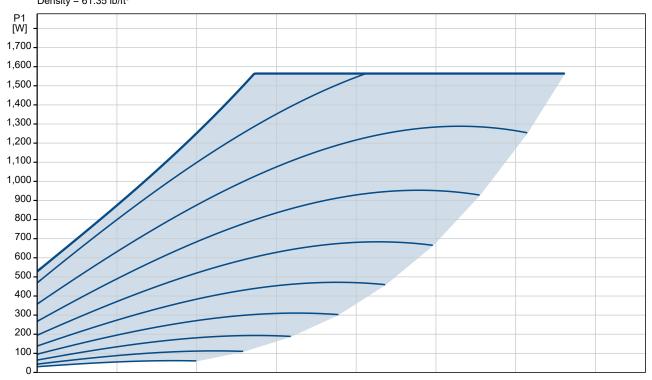


**Date:** 19/07/2024

#### 98126860 MAGNA3 100-120 GF 60 Hz



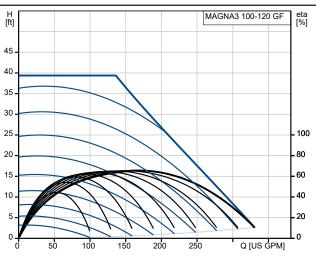
Pumped liquid = Water Liquid temperature during operation = 140 °F Density = 61.35 lb/ft³



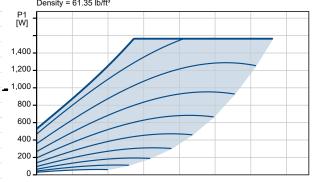


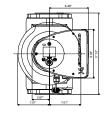
**Date:** 19/07/2024

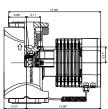
General information:         MAGNA3 100-120 GF           Product name:         MAGNA3 100-120 GF           Product No:         98126860           EAN number:         5710629500229           Price:         5710629500229           Technical:         165 US GPM           Rated flow:         165 US GPM           Rated head:         31.83 ft           Maximum head:         39.37 ft           TF class:         110           Approvals:         cETLus, Proposition 65           Model:         E           Materials:         Cest iron           Pump housing:         Cast iron           Pump housing:         EN 1561 EN-GJL-250           Pump housing:         ASTM A48-250B           Impeller:         Composite           Installation:         Cast iron           Range of ambient temperature:         32 104 °F           Maximum operating pressure:         174.05 psi           Flange standard:         GF           Pipe connection:         GF100           Pressure rating for connection:         PN 12           Port-to-port length:         17 3/4 in           Liquid:         Water           Liquid:         Water	Description	Value
Product No: 98126860  EAN number: 5710629500229  Price: Technical:  Rated flow: 165 US GPM  Rated head: 31.83 ft  Maximum head: 39.37 ft  TF class: 110  Approvals: cETLus, Proposition 65  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: 32104 °F  Maximum operating pressure: 174.05 psi  Flange standard: GF  Pipe connection: GF100  Pressure rating for connection: PN 12  Port-to-port length: 17 3/4 in  Liquid:  Pumped liquid: Water  Liquid temperature range: 14230 °F  Selected liquid temperature: 140 °F  Density: 61.35 lb/ft³  Electrical data:  Maximum power input - P1: 1564 W  P1 min.: 31 W  Mains frequency: 60 Hz  Rated voltage: 1 x 208-230 V  Minimum current consumption: 0.32 A  Maximum current consumption: 6.78 A  Enclosure class (IEC 34-5): X4D  Insulation class (IEC 85): F  Others:  Energy (EEI): 0.17  Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US		
EAN number: 5710629500229  Price: Technical: Rated flow: 165 US GPM Rated head: 31.83 ft Maximum head: 39.37 ft TF class: 110 Approvals: CETLus, Proposition 65 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: 32 104 °F Maximum operating pressure: 174.05 psi Flange standard: GF Pipe connection: GF100 Pressure rating for connection: PN 12 Port-to-port length: 17 3/4 in Liquid: Vater Liquid temperature range: 14 230 °F Selected liquid temperature: 140 °F Density: 61.35 lb/ft³  Electrical data: Maximum power input - P1: 1564 W P1 min.: 31 W Mains frequency: 60 Hz Rated voltage: 1 x 208-230 V Minimum current consumption: 0.32 A Maximum current consumption: 0.32 A Maximum current consumption: 0.32 A Maximum current consumption: 6.78 A Enclosure class (IEC 34-5): X4D Insulation class (IEC 85): F  Others: Energy (EEI): 0.17 Net weight: 75.7 lb Gross weight: 82.2 lb Shipping volume: 3.21 ft³ Country of origin: US	Product name:	MAGNA3 100-120 GF
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Rated head:       31.83 ft         Maximum head:       39.37 ft         TF class:       110         Approvals:       cETLus, Proposition 65         Model:       E         Materials:       E         Pump housing:       Cast iron         Pump housing:       EN 1561 EN-GJL-250         Pump housing:       ASTM A48-250B         Impeller:       Composite         Impeller:       Composite         Installation:       32 104 °F         Range of ambient temperature:       32 104 °F         Maximum operating pressure:       174.05 psi         Flange standard:       GF         Pipe connection:       GF100         Pressure rating for connection:       PN 12         Port-to-port length:       17 3/4 in         Liquid:       Water         Liquid:       Water         Liquid temperature range:       14 230 °F         Selected liquid temperature:       140 °F         Density:       61.35 lb/ft³         Electrical data:       Maximum power input - P1:       1564 W         P1 min.:       31 W         Mains frequency:       60 Hz         Rated voltage:       1 x 208-230 V     <	Technical:	
Maximum head:  TF class:  Approvals:  Model:  E  Materials:  Pump housing:  Range of ambient temperature:  Maximum operating pressure:  Flange standard:  Flange standard:  Fliep connection:  Port-to-port length:  Liquid:  Pumped liquid:  Liquid temperature:  Density:  Electrical data:  Maximum power input - P1:  P1 min.:  Mains frequency:  Ast in Ad8-250B  Composite  Flange standard:  Flange stan	Rated flow:	165 US GPM
TF class:  Approvals: Approvals: Model:  E  Materials: Pump housing: Pump housing: Pump housing: ASTM A48-250B Pump housing: Installation: Range of ambient temperature: Maximum operating pressure: Flange standard: Pipe connection: PN 12 Port-to-port length: Liquid: Pumped liquid: Liquid temperature: and "F" Density: Electrical data: Maximum power input - P1: P1 min.: Maximum power input - P1: P1 min.: Maximum current consumption: ASTM A48-250B Composite  Flange standard: FF  GF  GF  GF  GF  GF  GF  GF  GF  GF	Rated head:	31.83 ft
Approvals:  Model:  Materials:  Pump housing:  Range of ambient temperature:  Maximum operating pressure:  Flange standard:  Pipe connection:  Pressure rating for connection:  Port-to-port length:  Liquid:  Pumped liquid:  Liquid temperature:  Maximum power input - P1:  Patient old August	Maximum head:	39.37 ft
Model:  Materials: Pump housing: ASTM A48-250B Reference	TF class:	110
Materials:Pump housing:Cast ironPump housing:EN 1561 EN-GJL-250Pump housing:ASTM A48-250BImpeller:CompositeInstallation:CompositeRange of ambient temperature:32 104 °FMaximum operating pressure:174.05 psiFlange standard:GFPipe connection:GF100Pressure rating for connection:PN 12Port-to-port length:17 3/4 inLiquid:WaterLiquid temperature range:14 230 °FSelected liquid temperature:140 °FDensity:61.35 lb/ft³Electrical data:Maximum power input - P1:1564 WP1 min.:31 WMains frequency:60 HzRated voltage:1 x 208-230 VMinimum current consumption:0.32 AMaximum current consumption:6.78 AEnclosure class (IEC 34-5):X4DInsulation class (IEC 85):FOthers:Energy (EEI):0.17Net weight:75.7 lbGross weight:82.2 lbShipping volume:3.21 ft³Country of origin:US	Approvals:	cETLus, Proposition 65
Pump housing: Cast iron Pump housing: EN 1561 EN-GJL-250 Pump housing: ASTM A48-250B Impeller: Composite Installation: Range of ambient temperature: 32 104 °F Maximum operating pressure: 174.05 psi Flange standard: GF Pipe connection: GF100 Pressure rating for connection: PN 12 Port-to-port length: 17 3/4 in  Liquid: Pumped liquid: Water Liquid temperature range: 14 230 °F Selected liquid temperature: 140 °F Density: 61.35 lb/ft³  Electrical data: Maximum power input - P1: 1564 W P1 min.: 31 W Mains frequency: 60 Hz Rated voltage: 1 x 208-230 V Minimum current consumption: 0.32 A Maximum current consumption: 6.78 A Enclosure class (IEC 34-5): X4D Insulation class (IEC 85): F  Others: Energy (EEI): 0.17 Net weight: 75.7 lb Gross weight: 82.2 lb Shipping volume: 3.21 ft³ Country of origin: US	Model:	E
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Installation:  Range of ambient temperature: 32 104 °F  Maximum operating pressure: 174.05 psi  Flange standard: GF  Pipe connection: GF100  Pressure rating for connection: PN 12  Port-to-port length: 17 3/4 in  Liquid:  Pumped liquid: Water  Liquid temperature range: 14 230 °F  Selected liquid temperature: 140 °F  Density: 61.35 lb/ft³  Electrical data:  Maximum power input - P1: 1564 W  P1 min.: 31 W  Mains frequency: 60 Hz  Rated voltage: 1 x 208-230 V  Minimum current consumption: 0.32 A  Maximum current consumption: 6.78 A  Enclosure class (IEC 34-5): X4D  Insulation class (IEC 85): F  Others:  Energy (EEI): 0.17  Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US	Pump housing:	ASTM A48-250B
Range of ambient temperature:  Maximum operating pressure:  Flange standard:  GF  Pipe connection:  Pressure rating for connection:  Port-to-port length:  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Electrical data:  Maximum power input - P1:  P1 min.:  Mains frequency:  Rated voltage:  Maximum current consumption:  Maximum current consumption:  Maximum current consumption:  Belocoure class (IEC 85):  Others:  Energy (EEI):  Net weight:  Grand Arabar Ara	Impeller:	Composite
Maximum operating pressure:  Flange standard:  Fipe connection:  Pressure rating for connection:  Port-to-port length:  Cliquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Flectrical data:  Maximum power input - P1:  P1 min.:  Mains frequency:  Rated voltage:  Maximum current consumption:  Maximum current consumption:  Enclosure class (IEC 34-5):  Insulation class (IEC 85):  F  Others:  Energy (EEI):  Net weight:  Gross weight:  Shipping volume:  Country of origin:  I 7 3/4 in  Water  L17 4/0 in  17 3/4 in  Water  L2 30 °F  61.35 lb/ft³  F  61.35 lb/ft³	Installation:	
Flange standard:  Pipe connection:  Pressure rating for connection:  Port-to-port length:  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Electrical data:  Maximum power input - P1:  P1 min.:  Rated voltage:  Naximum current consumption:  Maximum current consumption:  Enclosure class (IEC 34-5):  Insulation class (IEC 85):  F  Others:  Energy (EEI):  Net weight:  Gross weight:  Shipping volume:  Country of origin:  PN 12  Water  17 3/4 in  Water  17 3/4 in  Water  18 4 230 °F  61.35 lb/ft³  61.35 lb/ft³  F  61.35 lb/ft³  F  61.35 lb/ft³  81.30 lb/ft³  F  61.35 lb/	Range of ambient temperature:	32 104 °F
Pipe connection: GF100 Pressure rating for connection: PN 12 Port-to-port length: 17 3/4 in  Liquid:  Pumped liquid: Water  Liquid temperature range: 14 230 °F Selected liquid temperature: 140 °F Density: 61.35 lb/ft³  Electrical data:  Maximum power input - P1: 1564 W P1 min.: 31 W Mains frequency: 60 Hz Rated voltage: 1 x 208-230 V Minimum current consumption: 0.32 A Maximum current consumption: 6.78 A Enclosure class (IEC 34-5): X4D Insulation class (IEC 85): F  Others: Energy (EEI): 0.17 Net weight: 75.7 lb Gross weight: 82.2 lb Shipping volume: 3.21 ft³ Country of origin: US	Maximum operating pressure:	174.05 psi
Pressure rating for connection: Port-to-port length:  Liquid: Pumped liquid: Uquid temperature range: Selected liquid temperature: Density: Density: Belectrical data: Maximum power input - P1: Mains frequency: Rated voltage: Ninimum current consumption: Density at 208-230 V Minimum current consumption: Consumer class (IEC 34-5): Density: Densi	Flange standard:	GF
Port-to-port length: 17 3/4 in  Liquid:  Pumped liquid: Water  Liquid temperature range: 14 230 °F  Selected liquid temperature: 140 °F  Density: 61.35 lb/ft³  Electrical data:  Maximum power input - P1: 1564 W  P1 min.: 31 W  Mains frequency: 60 Hz  Rated voltage: 1 x 208-230 V  Minimum current consumption: 0.32 A  Maximum current consumption: 6.78 A  Enclosure class (IEC 34-5): X4D  Insulation class (IEC 85): F  Others:  Energy (EEI): 0.17  Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US	Pipe connection:	GF100
Liquid:  Pumped liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  61.35 lb/ft³  Electrical data:  Maximum power input - P1:  Mains frequency:  Rated voltage:  Maximum current consumption:  Maximum current consumption:  6.78 A  Enclosure class (IEC 34-5):  Insulation class (IEC 85):  Cothers:  Energy (EEI):  Net weight:  Gross weight:  Shipping volume:  Country of origin:  Water  Water  14 230 °F  84.	Pressure rating for connection:	PN 12
Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  61.35 lb/ft³  Electrical data:  Maximum power input - P1:  Mains frequency:  Rated voltage:  Maximum current consumption:  Maximum current consumption:  6.78 A  Enclosure class (IEC 34-5):  Insulation class (IEC 85):  F  Others:  Energy (EEI):  Net weight:  Gross weight:  Shipping volume:  Country of origin:  Water  14 230 °F  14 230 °F  61.35 lb/ft³  E1.0 4.0 °F  61.35 lb/ft³  E1.0 5.7 lb  Gross weight:  Shipping volume:  Country of origin:  US	Port-to-port length:	17 3/4 in
Liquid temperature range: 14 230 °F  Selected liquid temperature: 140 °F  Density: 61.35 lb/ft³  Electrical data:  Maximum power input - P1: 1564 W  P1 min.: 31 W  Mains frequency: 60 Hz  Rated voltage: 1 x 208-230 V  Minimum current consumption: 0.32 A  Maximum current consumption: 6.78 A  Enclosure class (IEC 34-5): X4D  Insulation class (IEC 85): F  Others:  Energy (EEI): 0.17  Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US	Liquid:	
Selected liquid temperature: 140 °F  Density: 61.35 lb/ft³  Electrical data:  Maximum power input - P1: 1564 W  P1 min.: 31 W  Mains frequency: 60 Hz  Rated voltage: 1 x 208-230 V  Minimum current consumption: 0.32 A  Maximum current consumption: 6.78 A  Enclosure class (IEC 34-5): X4D  Insulation class (IEC 85): F  Others:  Energy (EEI): 0.17  Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US	Pumped liquid:	Water
Density:         61.35 lb/ft³           Electrical data:         Maximum power input - P1:         1564 W           P1 min.:         31 W           Mains frequency:         60 Hz           Rated voltage:         1 x 208-230 V           Minimum current consumption:         0.32 A           Maximum current consumption:         6.78 A           Enclosure class (IEC 34-5):         X4D           Insulation class (IEC 85):         F           Others:         Energy (EEI):         0.17           Net weight:         75.7 lb           Gross weight:         82.2 lb           Shipping volume:         3.21 ft³           Country of origin:         US	Liquid temperature range:	14 230 °F
Electrical data:  Maximum power input - P1: 1564 W P1 min.: 31 W  Mains frequency: 60 Hz Rated voltage: 1 x 208-230 V  Minimum current consumption: 0.32 A  Maximum current consumption: 6.78 A  Enclosure class (IEC 34-5): X4D  Insulation class (IEC 85): F  Others: Energy (EEI): 0.17  Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US	Selected liquid temperature:	140 °F
Maximum power input - P1: 1564 W P1 min.: 31 W Mains frequency: 60 Hz Rated voltage: 1 x 208-230 V Minimum current consumption: 0.32 A Maximum current consumption: 6.78 A Enclosure class (IEC 34-5): X4D Insulation class (IEC 85): F  Others: Energy (EEI): 0.17 Net weight: 75.7 lb Gross weight: 82.2 lb Shipping volume: 3.21 ft³ Country of origin: US	Density:	61.35 lb/ft³
P1 min.:       31 W         Mains frequency:       60 Hz         Rated voltage:       1 x 208-230 V         Minimum current consumption:       0.32 A         Maximum current consumption:       6.78 A         Enclosure class (IEC 34-5):       X4D         Insulation class (IEC 85):       F         Others:       Energy (EEI):         Net weight:       75.7 lb         Gross weight:       82.2 lb         Shipping volume:       3.21 ft³         Country of origin:       US	Electrical data:	
Mains frequency:  Rated voltage:  1 x 208-230 V  Minimum current consumption:  0.32 A  Maximum current consumption:  6.78 A  Enclosure class (IEC 34-5):  Insulation class (IEC 85):  F  Others:  Energy (EEI):  Net weight:  Gross weight:  Shipping volume:  Country of origin:  0.17  V 208-230 V  AU  0.17  0.	Maximum power input - P1:	1564 W
Rated voltage: 1 x 208-230 V  Minimum current consumption: 0.32 A  Maximum current consumption: 6.78 A  Enclosure class (IEC 34-5): X4D  Insulation class (IEC 85): F  Others:  Energy (EEI): 0.17  Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US	P1 min.:	31 W
Minimum current consumption:  0.32 A  Maximum current consumption: 6.78 A  Enclosure class (IEC 34-5): Insulation class (IEC 85):  Cothers: Energy (EEI): Net weight: Gross weight: Shipping volume: 3.21 ft³  Country of origin:  0.32 A  0.32 A  0.32 A  0.78 A  Enclosure class (IEC 85): F  Others:  Energy (EEI): 0.17  Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US	Mains frequency:	60 Hz
Maximum current consumption: 6.78 A  Enclosure class (IEC 34-5): X4D  Insulation class (IEC 85): F  Others:  Energy (EEI): 0.17  Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US	Rated voltage:	1 x 208-230 V
Enclosure class (IEC 34-5): X4D Insulation class (IEC 85): F  Others: Energy (EEI): 0.17 Net weight: 75.7 lb Gross weight: 82.2 lb Shipping volume: 3.21 ft³ Country of origin: US	Minimum current consumption:	0.32 A
Insulation class (IEC 85): F  Others:  Energy (EEI): 0.17  Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US	Maximum current consumption:	6.78 A
Others:  Energy (EEI): 0.17  Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US	Enclosure class (IEC 34-5):	X4D
Others:  Energy (EEI): 0.17  Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US	Insulation class (IEC 85):	F
Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US		
Net weight: 75.7 lb  Gross weight: 82.2 lb  Shipping volume: 3.21 ft³  Country of origin: US	Energy (EEI):	0.17
Shipping volume: 3.21 ft³ Country of origin: US		75.7 lb
Country of origin: US	Gross weight:	82.2 lb
Country of origin: US	Shipping volume:	3.21 ft³
Custom tariff no.: 8413.70.2015	Country of origin:	US
	Custom tariff no.:	8413.70.2015



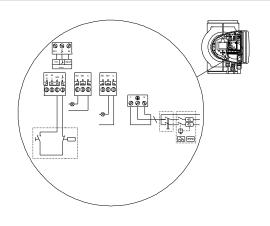
Pumped liquid = Water Liquid temperature during operation = 140 °F Density = 61.35 lb/ft³







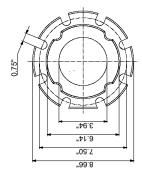


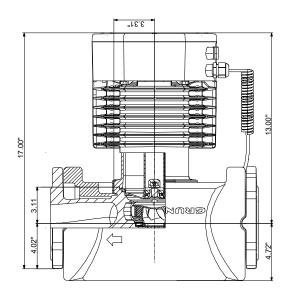


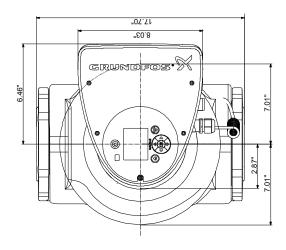


19/07/2024 Date:

# 98126860 MAGNA3 100-120 GF 60 Hz





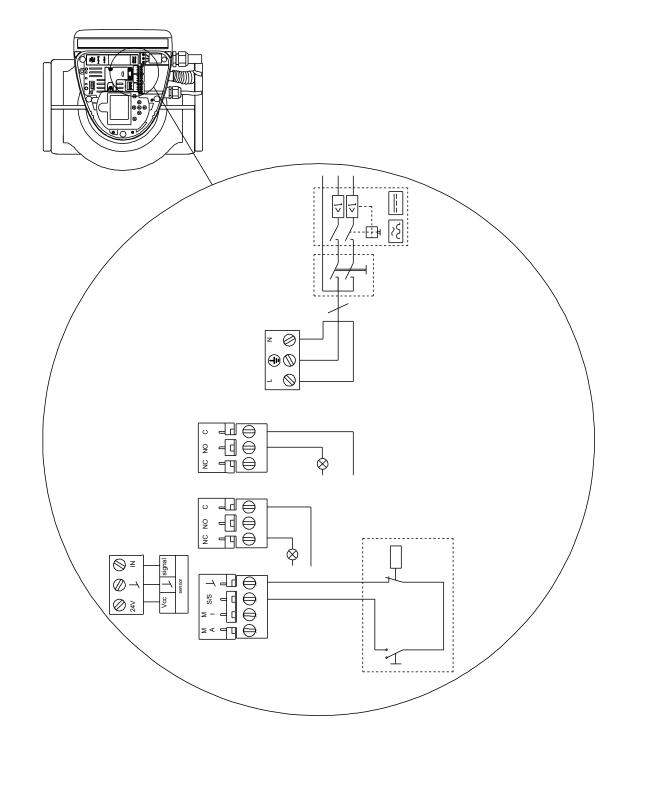


Note! All units are in [in] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



**Date:** 19/07/2024

## 98126860 MAGNA3 100-120 GF 60 Hz



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



**Date:** 19/07/2024

Order Data:

Position	on   Your pos.   Product name   Amount   Product No   T				Total
		MAGNA3 100-120 GF	1	98126860	