

PROJECT:	Magna-1	UNIT TAG:	_____	QUANTITY:	1
REPRESENTATIVE:	Hurley Engineering	TYPE OF SERVICE:	Stainless Steel Pump Configuration	DATE:	_____
ENGINEER:	TBD	SUBMITTED BY:	Devin Carle	DATE:	_____
CONTRACTOR:	TBD	APPROVED BY:	_____	DATE:	_____
		ORDER NO.:	_____	DATE:	_____

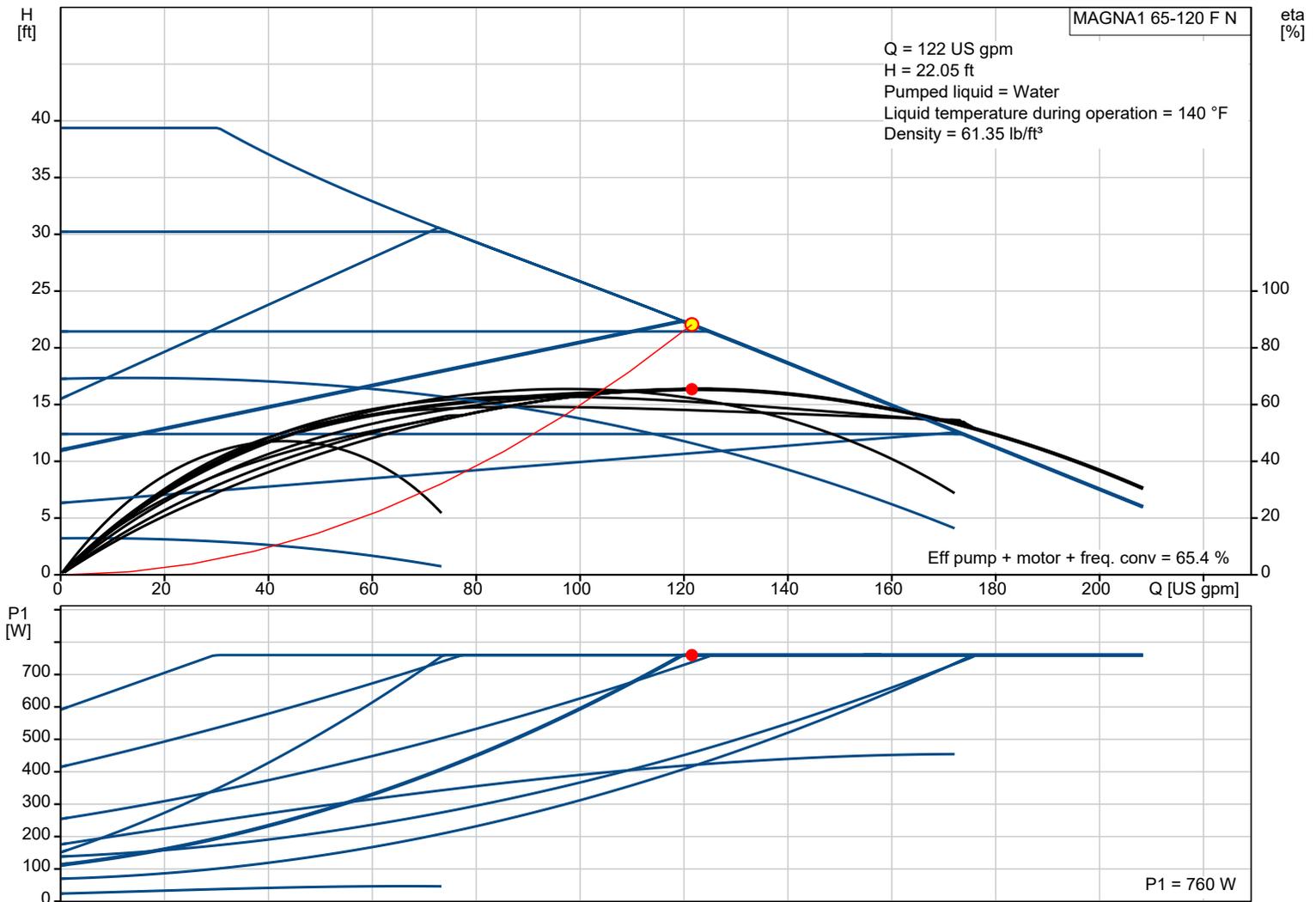
## MAGNA1 65-120 F N

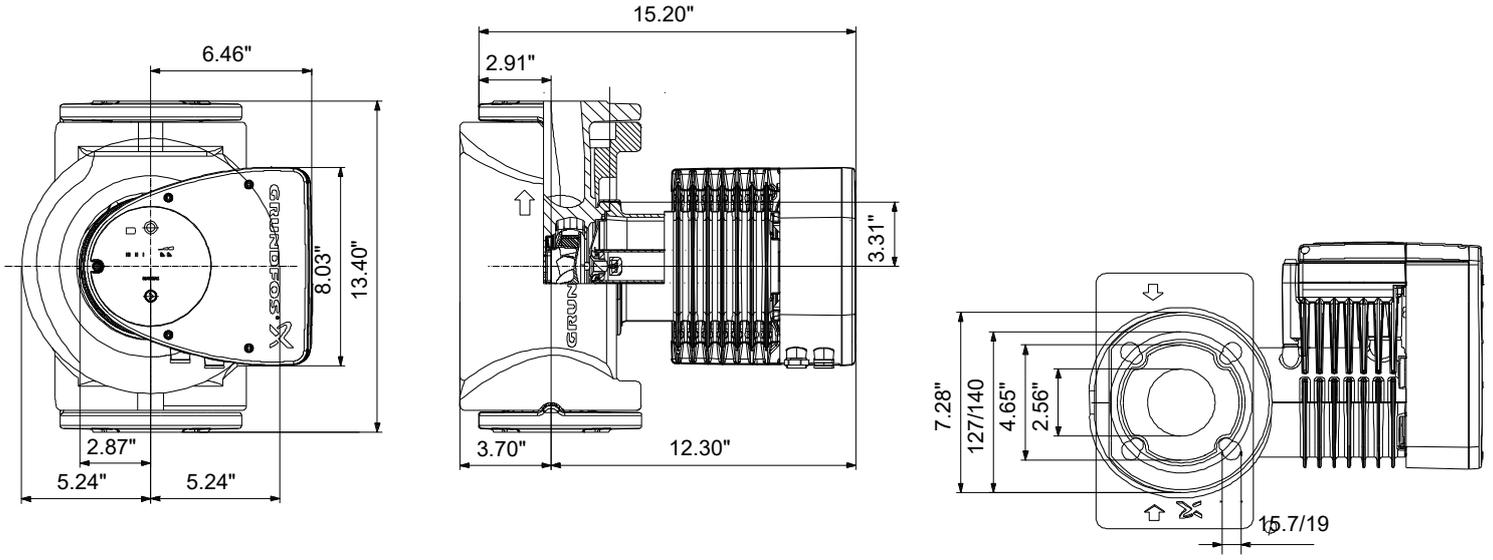


MAGNA1 N is the stainless steel variant for applications where the media requires this (e.g. domestic hot water). With MAGNA1, the job is done in an intuitive and efficient way.

Product photo could vary from the actual product

Conditions of Service		Pump Data		Motor Data	
Flow:	122 US gpm	Maximum operating pressure:	174.05 psi	P1 max:	24 .. 774 W
Head:	22.05 ft	Liquid temperature range:	14 .. 230 °F	Rated voltage:	208-230 V
Efficiency:	65.4 %	Maximum ambient temperature:	104 °F	Main frequency:	60 Hz
Liquid:	Water	Approvals:	98544606	Enclosure class:	X4D
Temperature:	140 °F	Flange standard:	GF	Insulation class:	F
NPSH required:	ft	Pipe connection:	GF53/65		
Specific Gravity:	0.985	Product number:	On request		





**Materials:**

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

Count	Description																														
1	<p data-bbox="121 235 352 262"><b>MAGNA1 65-120 F N</b></p> <div data-bbox="209 322 405 501" data-label="Image"> </div> <p data-bbox="121 555 395 582">Product No.: On request</p> <p data-bbox="121 613 1576 672">MAGNA1 circulator pump with easy selection of pump setting The pump 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.</p> <p data-bbox="121 703 1497 819">The bearings are lubricated by the pumped liquid. In order to avoid problems in connection with disposal, great importance has been attached to using as few different materials as possible. A pump with no maintenance requirements and extremely low life cycle cost.</p> <p data-bbox="121 851 300 878">Heating systems</p> <ul data-bbox="121 882 405 994" style="list-style-type: none"> <li>• Main pump</li> <li>• mixing loops</li> <li>• heating surfaces</li> <li>• air-conditioning surfaces.</li> </ul> <p data-bbox="121 999 1497 1079">The MAGNA1 circulator pumps are designed for circulating liquids in heating systems with variable flows where it is desirable to optimize the setting of the pump duty point, thus reducing energy costs. The pumps are also suitable for domestic hot-water systems.</p> <p data-bbox="121 1084 1369 1200">To ensure correct operation, it is important that the sizing range of the system falls within the duty range of the pump. The pump is also suitable for systems with hot-water priority as an external signal can immediately force the pump to operate according to the max. curve, for example in solar-heating systems.</p> <p data-bbox="121 1232 209 1258">Benefits</p> <ul data-bbox="121 1263 1465 1469" style="list-style-type: none"> <li>• Safe selection.</li> <li>• Simple installation.</li> <li>• Low energy consumption. All MAGNA1 pumps comply with the EuP requirements.</li> <li>• Nine light fields for indication of pump setting. Three proportional-pressure curves, three constant-pressure curves and three fixed-speed curves are available.</li> <li>• Low noise level.</li> <li>• No maintenance and long life.</li> </ul> <p data-bbox="121 1500 193 1527">Liquid:</p> <table data-bbox="121 1532 608 1648"> <tr> <td>Pumped liquid:</td> <td>Water</td> </tr> <tr> <td>Liquid temperature range:</td> <td>14 .. 230 °F</td> </tr> <tr> <td>Selected liquid temperature:</td> <td>140 °F</td> </tr> <tr> <td>Density:</td> <td>61.35 lb/ft<sup>3</sup></td> </tr> </table> <p data-bbox="121 1680 233 1706">Technical:</p> <table data-bbox="121 1711 619 1827"> <tr> <td>Actual calculated flow:</td> <td>122 US gpm</td> </tr> <tr> <td>Resulting head of the pump:</td> <td>22.05 ft</td> </tr> <tr> <td>TF class:</td> <td>110</td> </tr> <tr> <td>Approvals on nameplate:</td> <td>98544606</td> </tr> </table> <p data-bbox="121 1859 225 1886">Materials:</p> <table data-bbox="121 1890 651 2007"> <tr> <td>Pump housing:</td> <td>Stainless steel EN 1.4308 ASTM 351 CF8</td> </tr> <tr> <td>Impeller:</td> <td>PES 30%GF</td> </tr> </table> <p data-bbox="121 2038 240 2065">Installation:</p> <table data-bbox="121 2069 608 2208"> <tr> <td>Range of ambient temperature:</td> <td>32 .. 104 °F</td> </tr> <tr> <td>Maximum operating pressure:</td> <td>174.05 psi</td> </tr> <tr> <td>Flange standard:</td> <td>GF</td> </tr> <tr> <td>Pipe connection:</td> <td>GF53/65</td> </tr> <tr> <td>Pressure stage:</td> <td>PN12</td> </tr> </table>	Pumped liquid:	Water	Liquid temperature range:	14 .. 230 °F	Selected liquid temperature:	140 °F	Density:	61.35 lb/ft <sup>3</sup>	Actual calculated flow:	122 US gpm	Resulting head of the pump:	22.05 ft	TF class:	110	Approvals on nameplate:	98544606	Pump housing:	Stainless steel EN 1.4308 ASTM 351 CF8	Impeller:	PES 30%GF	Range of ambient temperature:	32 .. 104 °F	Maximum operating pressure:	174.05 psi	Flange standard:	GF	Pipe connection:	GF53/65	Pressure stage:	PN12
Pumped liquid:	Water																														
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Pressure stage:	PN12																														



Company name: Hurley Engineering

Created by:

Phone:

Date:

4/22/2021

Count Description

Port-to-port length: 13 7/16 in

Electrical data:

Power input - P1: 24 .. 774 W

Main frequency: 60 Hz

Rated voltage: 1 x 208-230 V

Maximum current consumption: 0.26 .. 3.42 A

Enclosure class (IEC 34-5): X4D

Insulation class (IEC 85): F

Others:

Energy (EEI): 0.18

Net weight: 47.6 lb

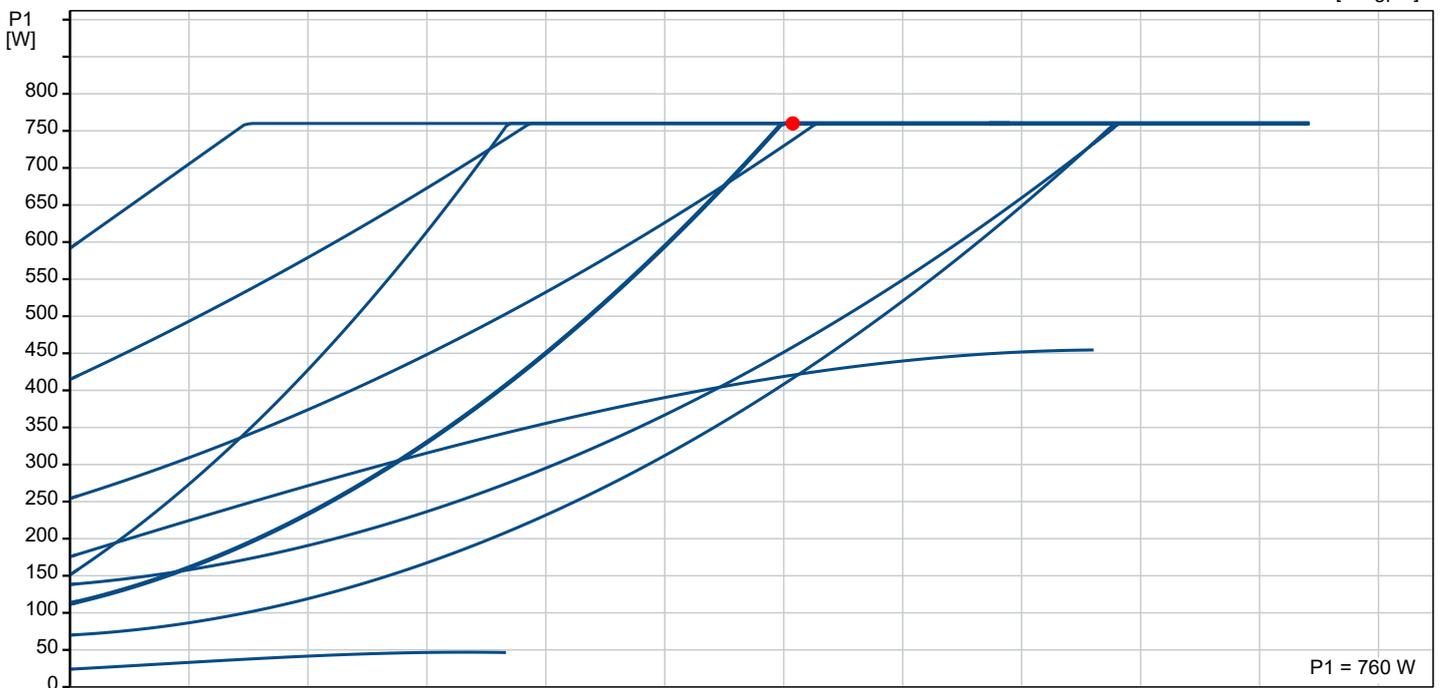
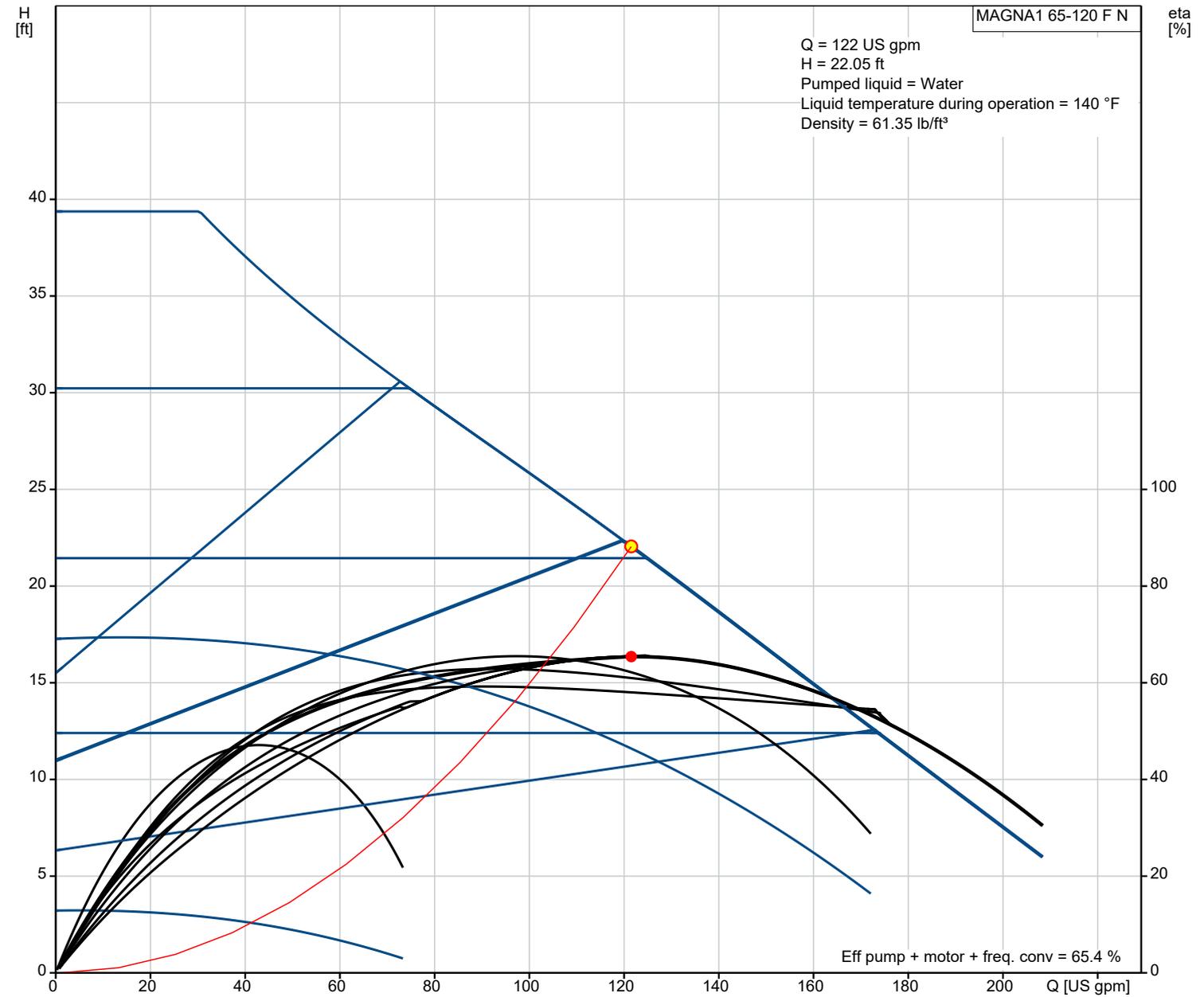
Gross weight: 52.6 lb

Shipping volume: 1.94 ft<sup>3</sup>

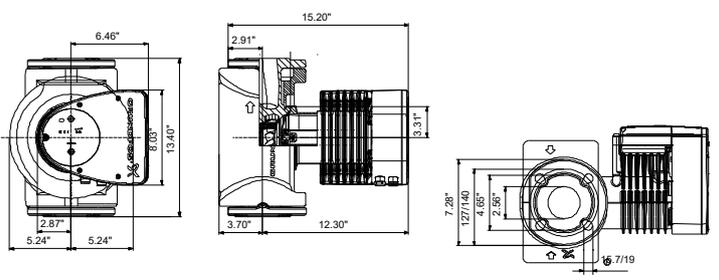
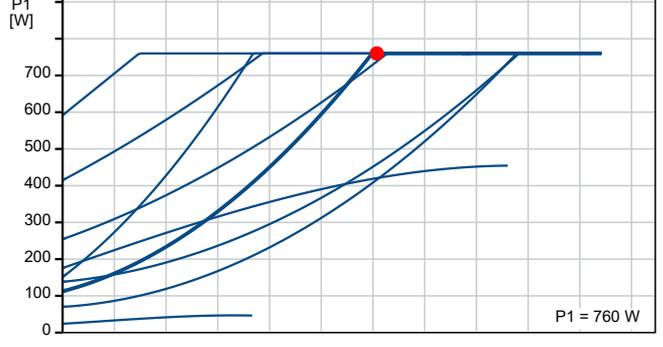
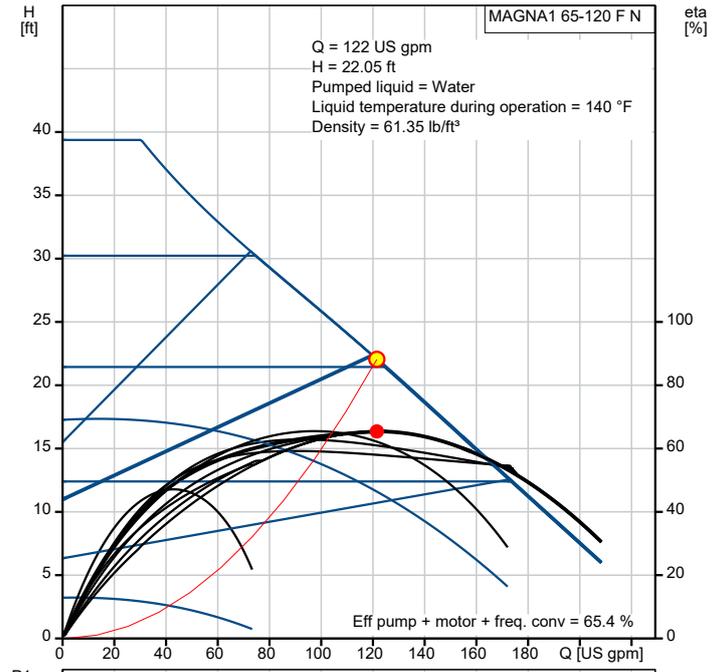
Country of origin: US

Custom tariff no.: 8413.70.2005

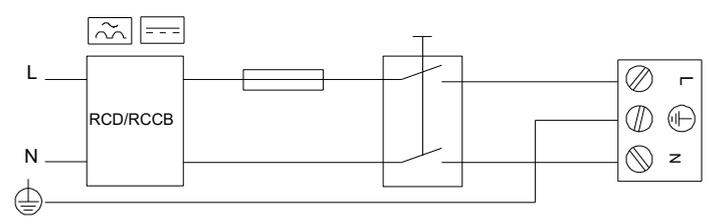
## On request MAGNA1 65-120 F N 60 Hz



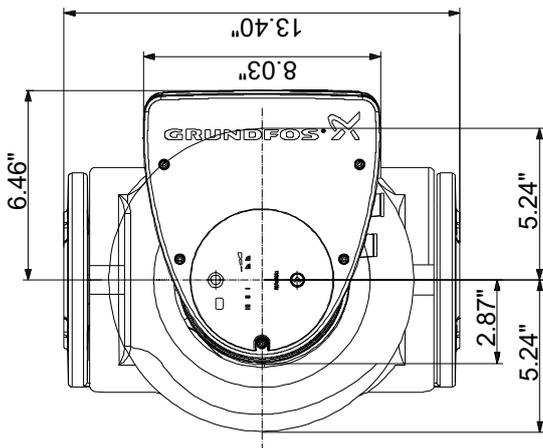
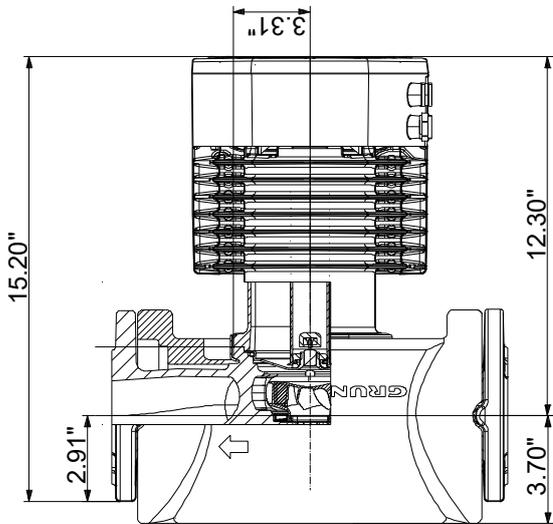
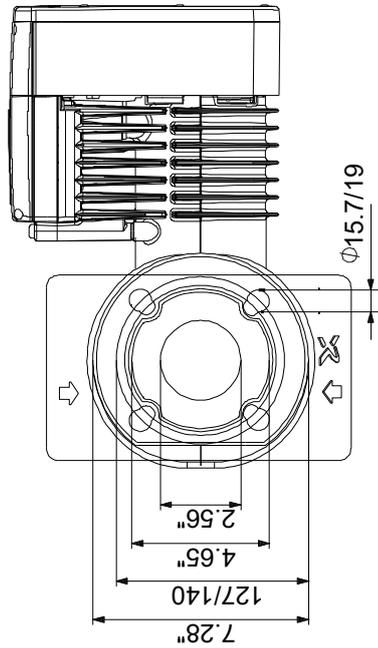
Description	Value
<b>General information:</b>	
Product name:	MAGNA1 65-120 F N
Product No.:	On request
EAN:	On request
<b>Technical:</b>	
Actual calculated flow:	122 US gpm
Resulting head of the pump:	22.05 ft
Head max:	39.37 ft
TF class:	110
Approvals on nameplate:	98544606
Model:	B
<b>Materials:</b>	
Pump housing:	Stainless steel
Pump housing:	EN 1.4308
Pump housing:	ASTM 351 CF8
Impeller:	PES 30%GF
<b>Installation:</b>	
Range of ambient temperature:	32 .. 104 °F
Maximum operating pressure:	174.05 psi
Flange standard:	GF
Pipe connection:	GF53/65
Pressure stage:	PN12
Port-to-port length:	13 7/16 in
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	14 .. 230 °F
Selected liquid temperature:	140 °F
Density:	61.35 lb/ft³
<b>Electrical data:</b>	
Power input - P1:	24 .. 774 W
Main frequency:	60 Hz
Rated voltage:	1 x 208-230 V
Maximum current consumption:	0.26 .. 3.42 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
<b>Others:</b>	
Energy (EEL):	0.18
Net weight:	47.6 lb
Gross weight:	52.6 lb
Shipping volume:	1.94 ft³
Country of origin:	US
Custom tariff no.:	8413.70.2005



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

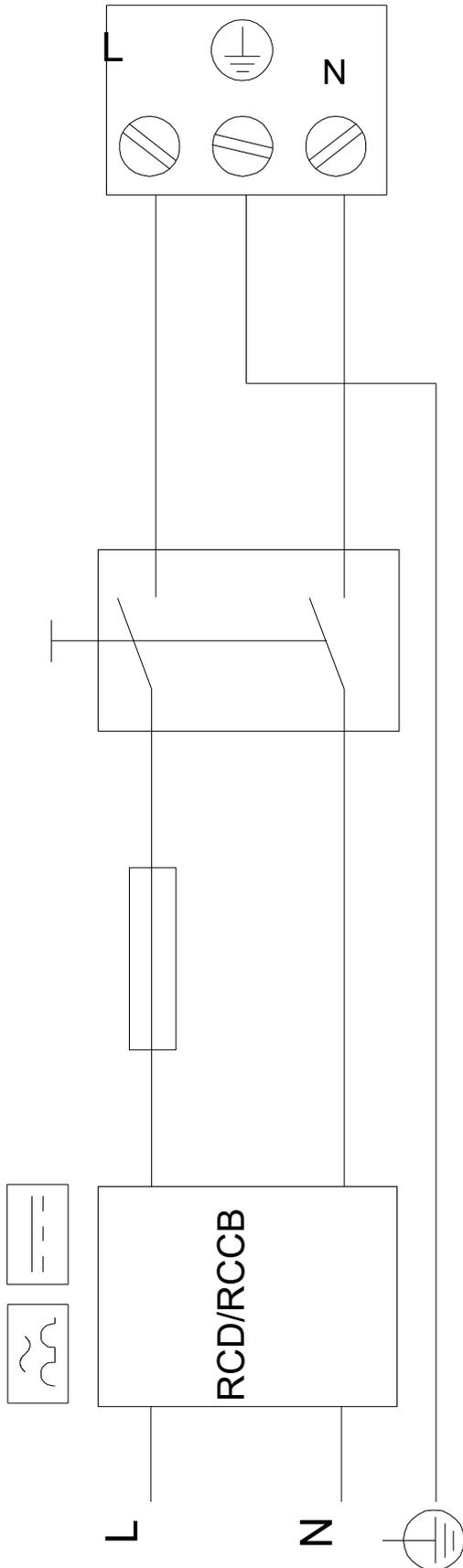


## On request MAGNA1 65-120 F N 60 Hz



## On request MAGNA1 65-120 F N 60 Hz

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





**Company name:** Hurley Engineering

**Created by:**

**Phone:**

**Date:**

4/22/2021

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**Order Data:**

Product name: MAGNA1 65-120 F N

Amount: 1

Product No.: On request

Total: Price on request

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