GRUNDFOS

Submittal Data

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

MAGNA1 65-120 F N

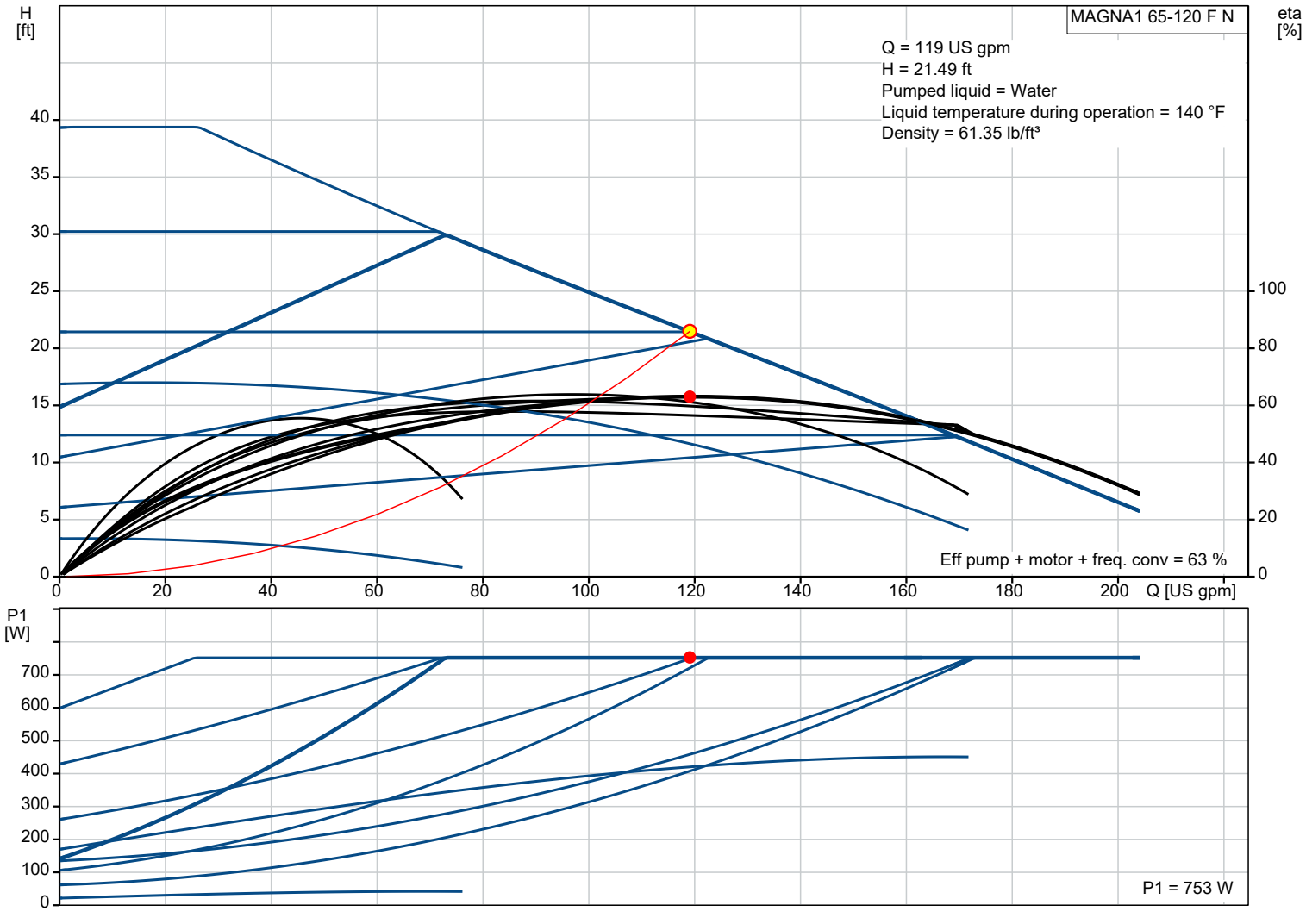
Product photo could vary from the actual product

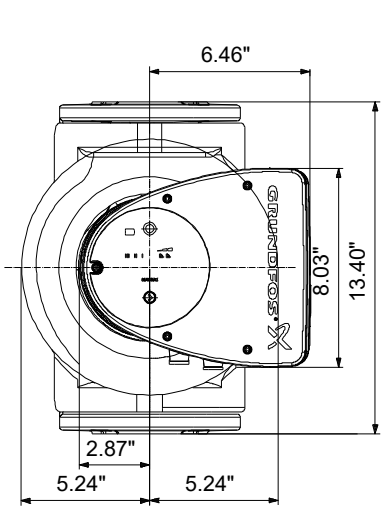
MAGNA1 N is the stainless steel variant for applications where the media requires this (e.g. domestic hot water). With MAGNA1, the job is done in an intuitive and efficient way.

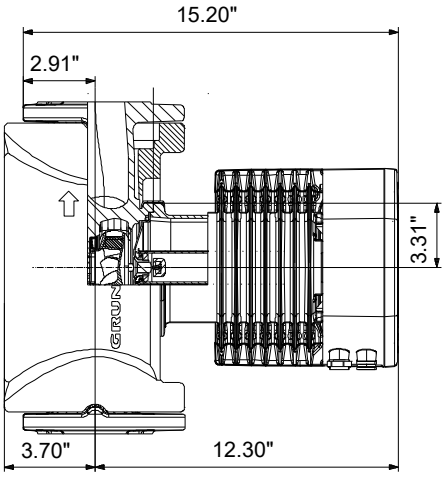
Conditions of Service	
Flow:	119 US gpm
Head:	21.49 ft
Efficiency:	63 %
Liquid:	Water
Temperature:	140 °F
NPSH required:	ft
Specific Gravity:	0.985

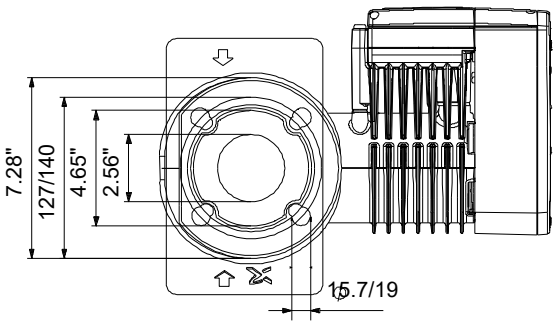
Pump Data	
Maximum operating pressure:	174.05 psi
Liquid temperature range:	14 .. 230 °F
Maximum ambient temperature:	104 °F
Approvals:	98544606
Flange standard:	GF
Pipe connection:	GF53/65
Product number:	On request

Motor Data	
P1 max:	24 .. 752 W
Rated voltage:	115 V
Main frequency:	60 Hz
Enclosure class:	X4D
Insulation class:	F









Materials:

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

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Company name: Hurley Engineering
Created by:
Phone:

Date: 4/22/2021

Count	Description
1	**MAGNA1 65-120 F N**

Product No.: On request

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.

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.

Heating systems
• Main pump
• mixing loops
• heating surfaces
• air-conditioning surfaces.
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.
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.

Benefits
• Safe selection.
• Simple installation.
• Low energy consumption. All MAGNA1 pumps comply with the EuP requirements.
• Nine light fields for indication of pump setting. Three proportional-pressure curves, three constant-pressure curves and three fixed-speed curves are available.
• Low noise level.
• No maintenance and long life.

Liquid:

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

Technical:

Actual calculated flow:	119 US gpm
Resulting head of the pump:	21.49 ft
TF class:	110
Approvals on nameplate:	98544606

Materials:

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

Installation:

Range of ambient temperature:	32 .. 104 °F
Maximum operating pressure:	174.05 psi
Flange standard:	GF
Pipe connection:	GF53/65
Pressure stage:	PN12

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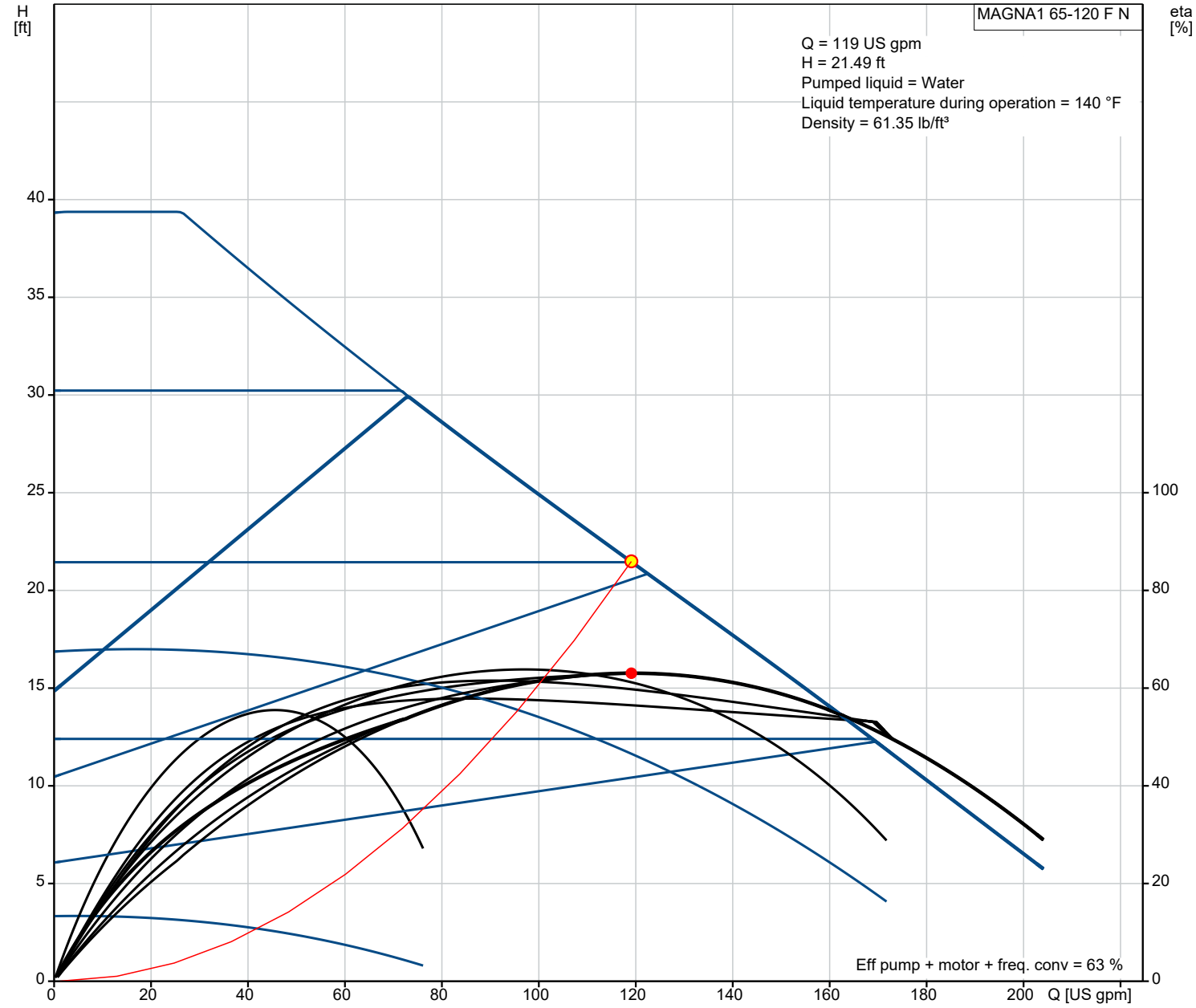
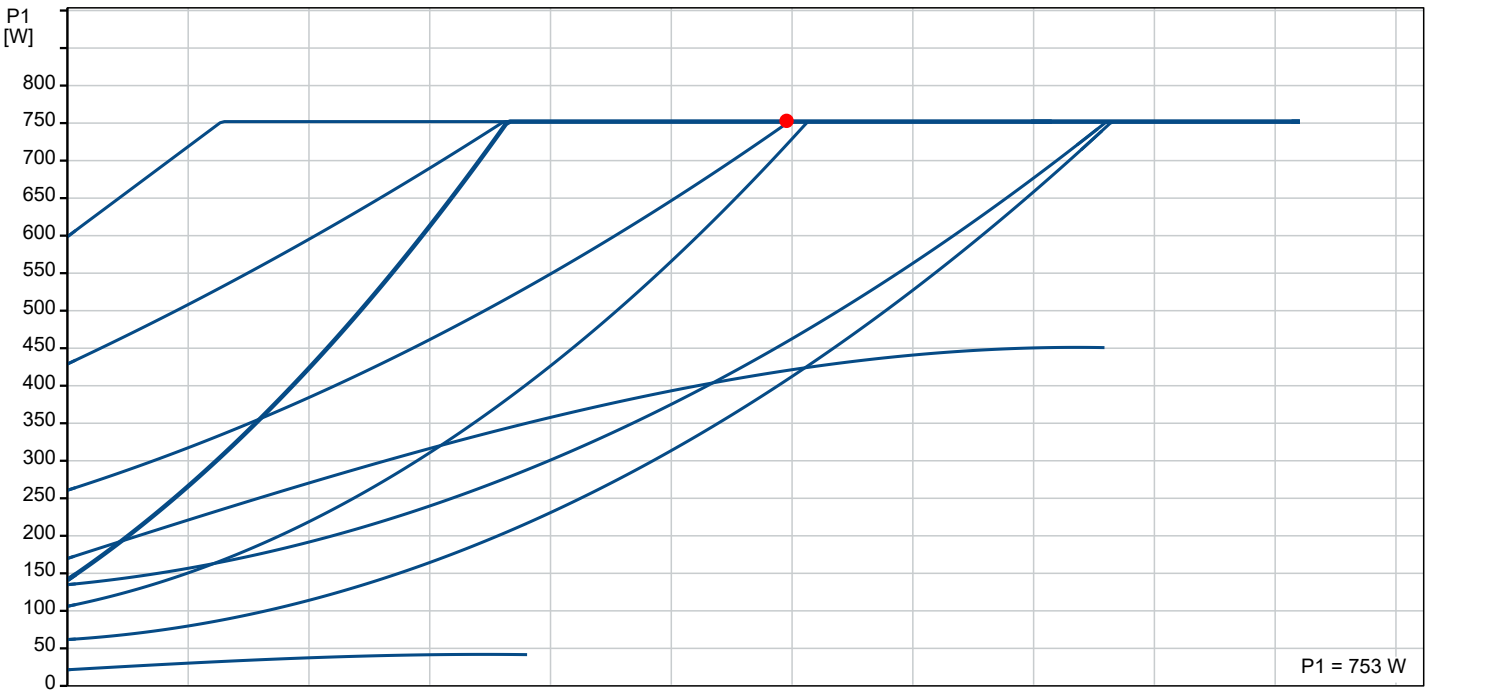
Count	Description	
	Port-to-port length:	13 7/16 in
	Electrical data:	
	Power input - P1:	24 .. 752 W
	Main frequency:	60 Hz
	Rated voltage:	1 x 115 V
	Maximum current consumption:	0.34 .. 6.6 A
	Enclosure class (IEC 34-5):	X4D
	Insulation class (IEC 85):	F
	Others:	
	Energy (EEI):	0.18
	Net weight:	47.6 lb
	Gross weight:	52.6 lb
	Shipping volume:	1.94 ft³
	Custom tariff no.:	8413.70.2015

Company name: Hurley Engineering
Created by:
Phone:

Date: 4/22/2021

On request MAGNA1 65-120 F N 60 Hz

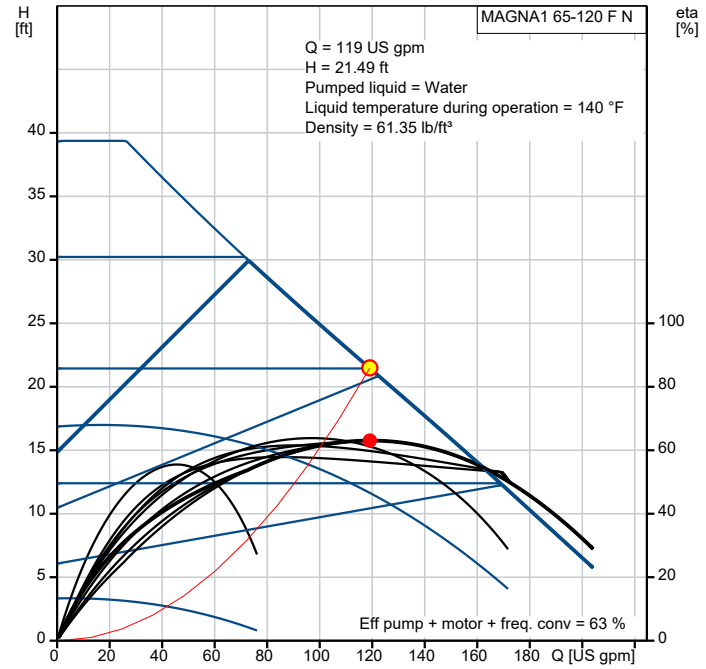


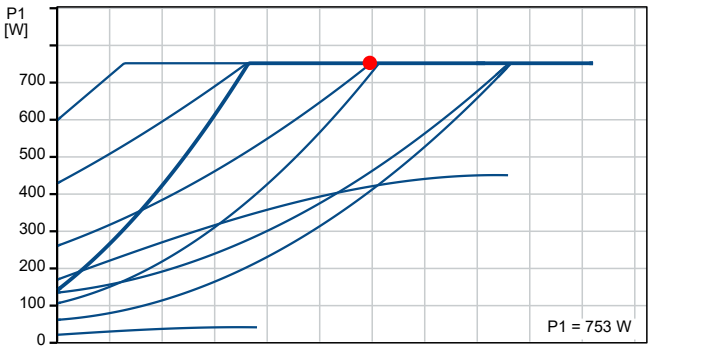


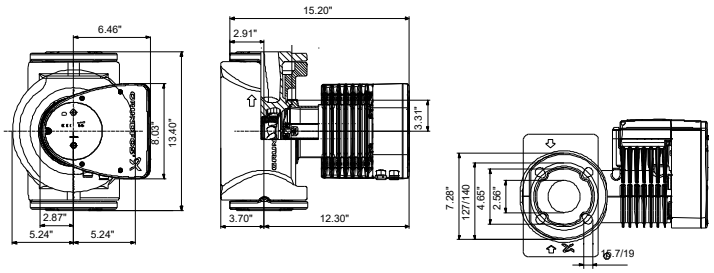
Company name: Hurley Engineering
Created by:
Phone:

Date: 4/22/2021

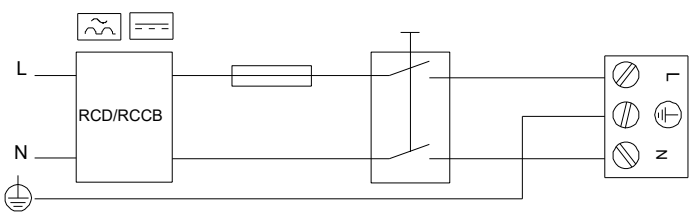
Description	Value
General information:	
Product name:	MAGNA1 65-120 F N
Product No.:	On request
EAN:	On request
Technical:	
Actual calculated flow:	119 US gpm
Resulting head of the pump:	21.49 ft
Head max:	39.37 ft
TF class:	110
Approvals on nameplate:	98544606
Model:	B
Materials:	
Pump housing:	Stainless steel
Pump housing:	EN 1.4308
Pump housing:	ASTM 351 CF8
Impeller:	PES 30%GF
Installation:	
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
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	14 .. 230 °F
Selected liquid temperature:	140 °F
Density:	61.35 lb/ft³
Electrical data:	
Power input - P1:	24 .. 752 W
Main frequency:	60 Hz
Rated voltage:	1 x 115 V
Maximum current consumption:	0.34 .. 6.6 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 ft³
Custom tariff no.:	8413.70.2015







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



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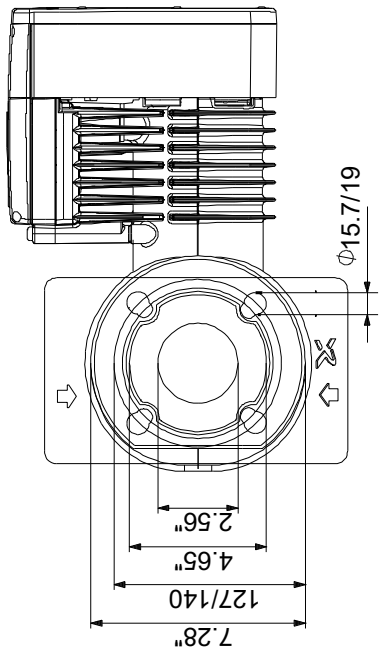
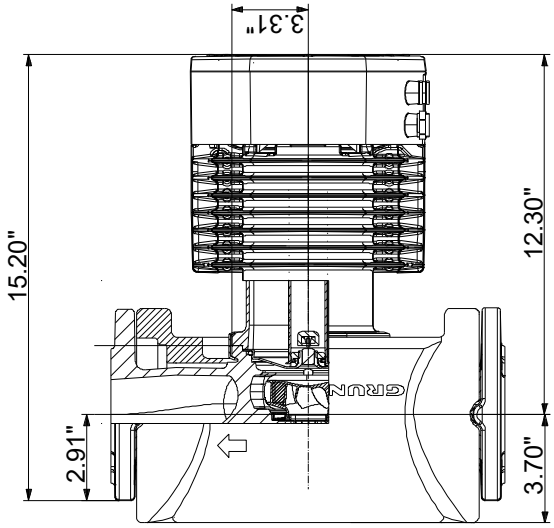
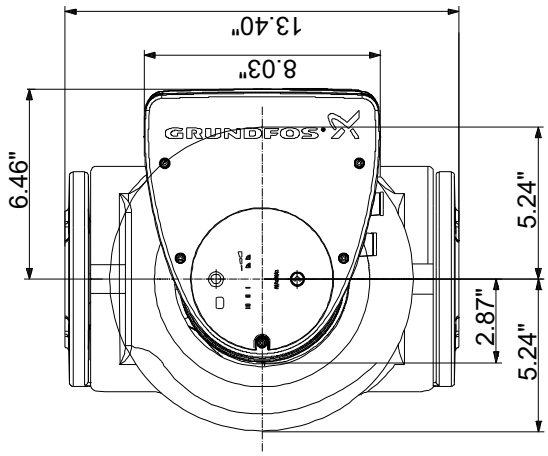
On request MAGNA1 65-120 F N 60 Hz







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

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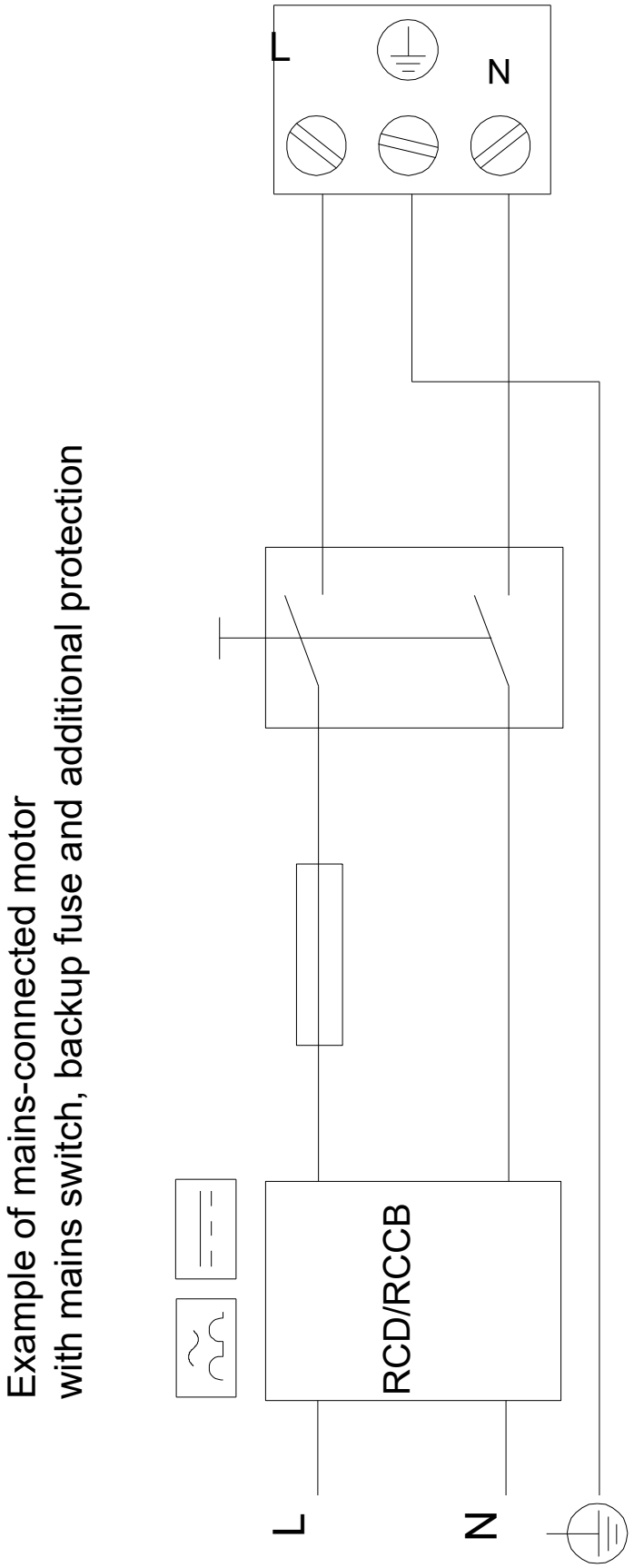
Created by:
Phone:

Date: 4/22/2021

On request MAGNA1 65-120 F N 60 Hz



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

All units are [in] unless otherwise presented.

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Company name: Hurley Engineering
Created by:
Phone:

Date: 4/22/2021

Order Data:

Product name: MAGNA1 65-120 F N
Amount: 1
Product No.: On request

Total: Price on request