GRUNDFOS

Submittal Data

PROJECT:	Magna-3	UNIT TAG:		QUANTITY:	1
		TYPE OF SERVICE:	Cast Iron Pump Configuration		
REPRESENTATIVE:	Hurley Engineering	SUBMITTED BY:	Devin Carle	DATE:	
ENGINEER:	TBD	APPROVED BY:		DATE:	
CONTRACTOR:	TBD	ORDER NO.:		DATE:	

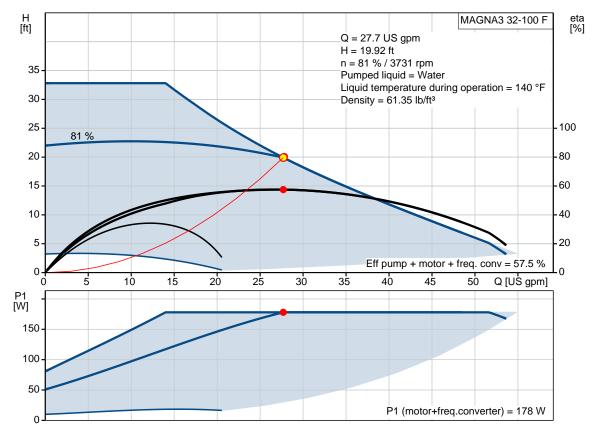


MAGNA3 32-100 F

Full range of intelligent, high-efficiency circulators for heating, cooling, ground source heat pump systems and domestic hot water applications

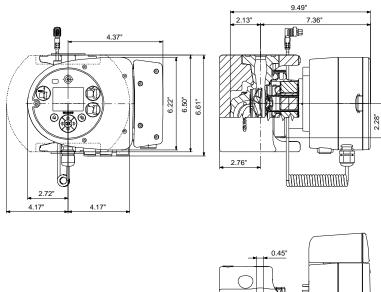
Product photo could vary from the actual product

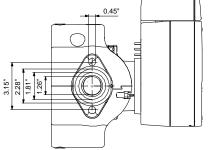
Conditions of Service		Pump Data		Motor Data	
Flow:	27.7 US gpm	Maximum operating pressure:	174.05 psi	P1 max:	9.7 178 W
Head:	19.92 ft	Liquid temperature range:	14 230 °F	Rated voltage:	115-230 V
Efficiency:	57.5 %	Maximum ambient temperature:	104 °F	Main frequency:	60 Hz
Liquid:	Water	Approvals:	98544605	Enclosure class:	X4D
Temperature:	140 °F	Flange standard:	GF	Insulation class:	F
NPSH required:	ft	Pipe connection:	GF15/26/40/43		
Viscosity:		Product number:	98126824		
Specific Gravity:	0.985				



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Submittal Data



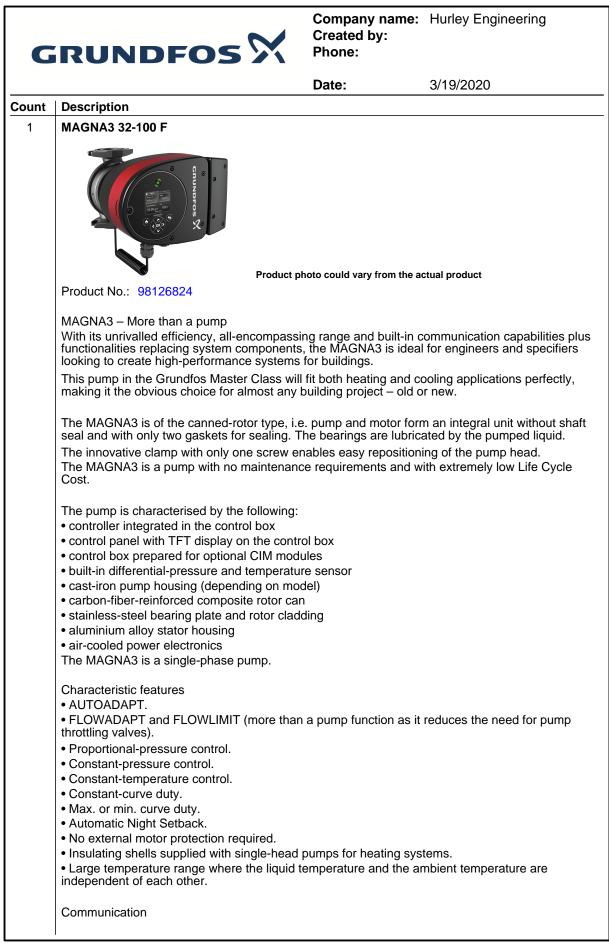


Materials:

Pump housing: Cast iron EN-GJL-2 ASTM A4

Impeller:

Cast iron EN-GJL-250 ASTM A48-250B PES 30%GF



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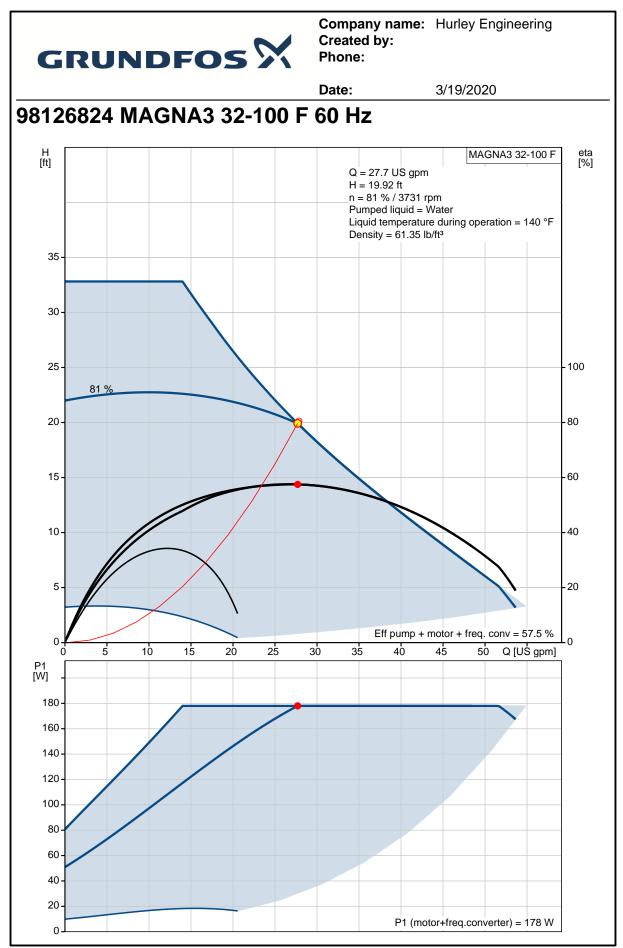
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Company name: Hurley Engineering Created by: Phone:

		Date:	3/19/2020		
Count	Description				
	The MAGNA3 enables communication via the following: • wireless Grundfos GO Remote • fieldbus communication via CIM modules • digital inputs • relay outputs • analog input (more than a pump function as heat energy meter)				
	Motor and electronic controller The MAGNA3 incorporates a 4-r	pole synchronous, permanen igher efficiency than a conve v an integrated frequency con	t-magnet motor (PM motor). This ntional asynchronous squirrel-cage nverter.		
	Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water 14 230 °F 140 °F 61.35 lb/ft³			
	Technical: Actual calculated flow: Resulting head of the pump: TF class: Approvals on nameplate:	27.7 US gpm 19.92 ft 110 98544605			
	Materials: Pump housing: Impeller:	Cast iron EN-GJL-250 ASTM A48-250B PES 30%GF			
	Installation: Range of ambient temperature: Maximum operating pressure: Flange standard: Pipe connection: Pressure stage: Port-to-port length:	32 104 °F 174.05 psi GF GF15/26/40/43 PN12 6 1/2 in			
	Electrical data: Power input - P1: Main frequency: Rated voltage: Maximum current consumption: Enclosure class (IEC 34-5): Insulation class (IEC 85):	9.7 178 W 60 Hz 1 x 115-230 V 0.29 1.61 A X4D F			
	Others: Energy (EEI): Net weight: Gross weight: Shipping volume: Country of origin:	0.18 13.9 lb 17.3 lb 748 ft ³ US			

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G	RUNDFO	os X	Company name: Created by: Phone:	Hurley Engineering
			Date:	3/19/2020
Count	Description			
	Custom tariff no.:	8413.70.20	005	

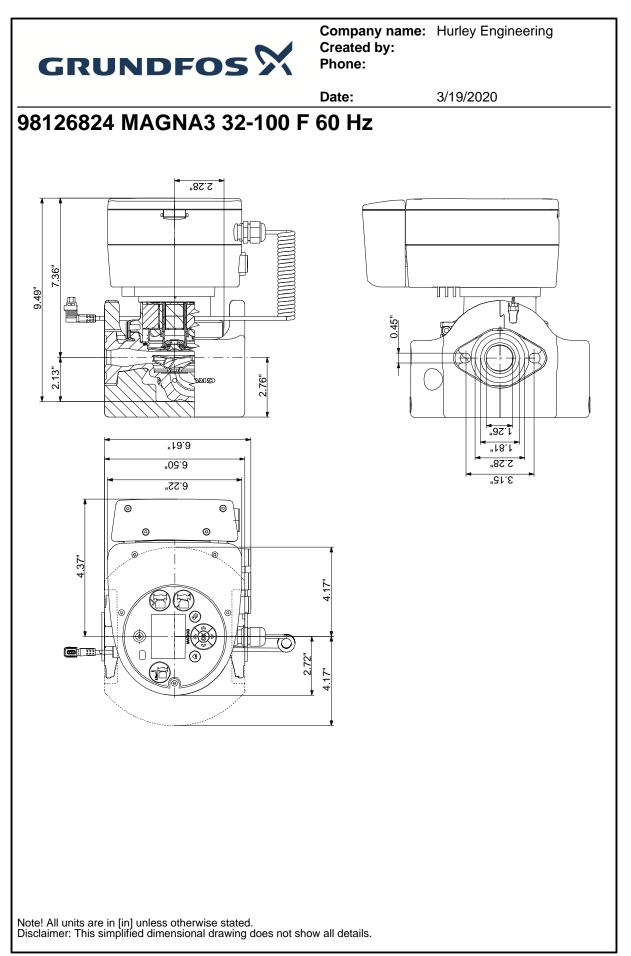


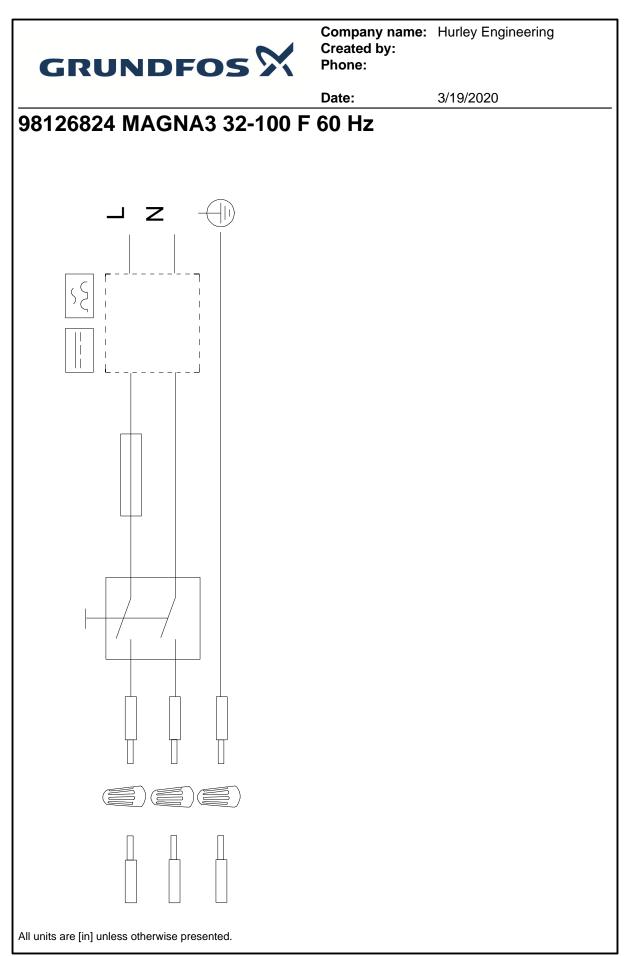
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Company name: Hurley Engineering Created by: Phone:

Description	Value	H [ft]	MAGNA3 32-100 F
General information:	Fuldo		Q = 27.7 US gpm
Product name:	MAGNA3 32-100 F		H = 19.92 ft n = 81 % / 3731 rpm
Product No.:	98126824	35 -	Pumped liquid = Water
EAN:	5710629499868		Liquid temperature during operation = 140 °F Density = 61.35 lb/ft ³
	5710629499868	30 -	
Technical:		_	
Actual calculated flow:	27.7 US gpm	25 -	100
Resulting head of the pump:	19.92 ft	81	%
Head max:	32.81 ft	20 -	- 80
TF class:	110	_	
Approvals on nameplate:	98544605	15 -	60
Model:	D	_	
Materials:		10 -	40
Pump housing:	Cast iron		
	EN-GJL-250	5-	20
	ASTM A48-250B	- /	Eff pump + motor + freq. conv = 57.5 %
Impeller:	PES 30%GF	0	10 20 30 40 Q [US gpm]
Installation:	. 20 00,00.	P1	
Range of ambient temperature:	32 104 °F	[W]	
Maximum operating pressure:	174.05 psi	150 -	
Flange standard:	GF	_	
Pipe connection:	GF15/26/40/43	100 -	
Pressure stage:	PN12		
Port-to-port length:	6 1/2 in	50 -	
Liquid:			
Pumped liquid:	Water		P1 (motor+freq.converter) = 178 W
Liquid temperature range:	14 230 °F	0	
Selected liquid temperature:	140 °F	_	9.49 2.13' 7.96' (IDE)
Density:	61.35 lb/ft ³		
Electrical data:			
Power input - P1:	9.7 178 W		
Main frequency:	60 Hz		
Rated voltage:	1 x 115-230 V		
Maximum current consumption:	0.29 1.61 A	<u>2.72'</u> 4.17' 4.17'	
Enclosure class (IEC 34-5):	X4D		
Insulation class (IEC 85):	F		
Others:			
Energy (EEI):	0.18		
Net weight:	13.9 lb		
Gross weight:	17.3 lb		
Shipping volume:	748 ft ³		
Country of origin:	US		
Custom tariff no.:	8413.70.2005	m	
	0413.70.2003		





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