

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:	

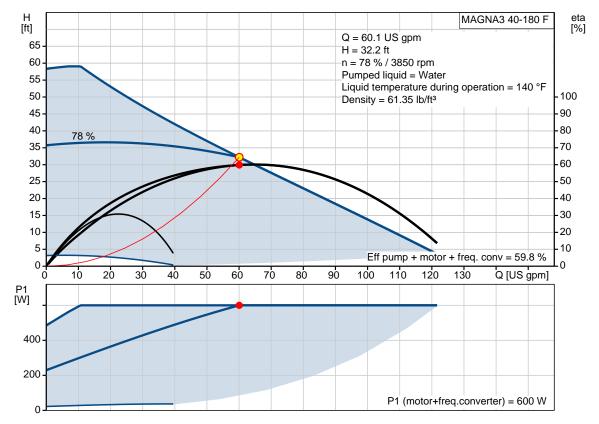


MAGNA3 40-180 F

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

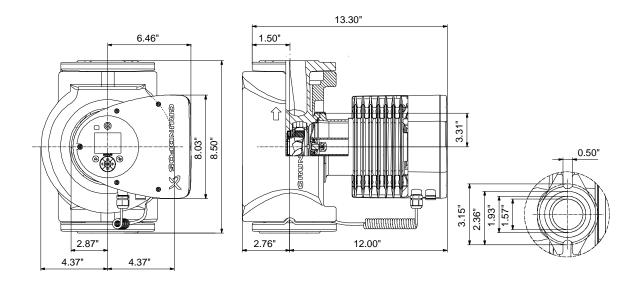
Product photo could vary from the actual product

Conditions of Service		Pump Data	Motor Data		
Flow: Head: Efficiency: Liquid: Temperature: NPSH required: Viscosity: Specific Gravity:	60.1 US gpm 32.2 ft 59.8 % Water 140 °F ft 0.985	Maximum operating pressure: Liquid temperature range: Maximum ambient temperature: Approvals: Flange standard: Pipe connection: Product number:	174.05 psi 14 230 °F 104 °F 98544605 GF GF15/26/40/43 98126836	P1 max: Rated voltage: Main frequency: Enclosure class: Insulation class:	16 600 W 208-230 V 60 Hz X4D F





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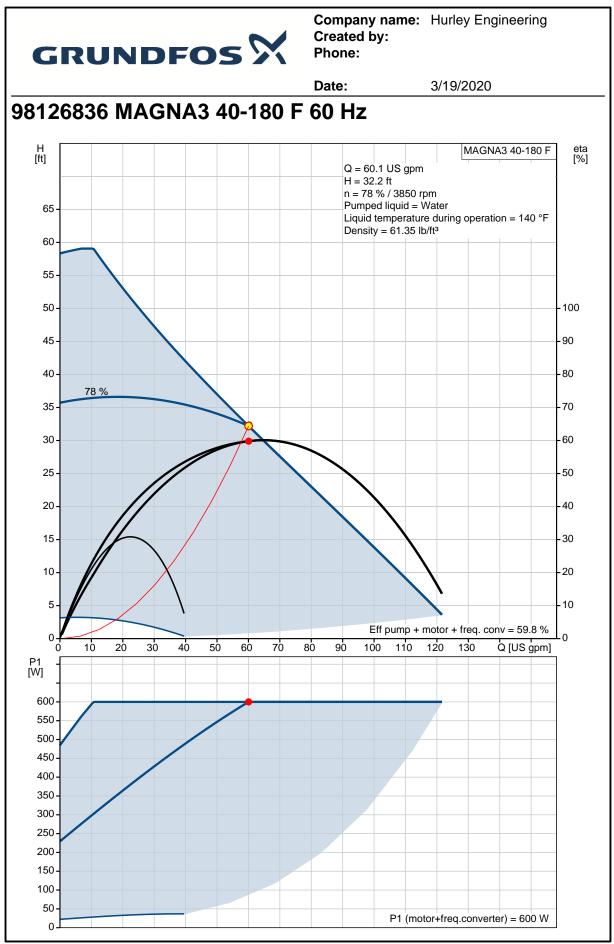


Materials:

Pump housing:	Cast iron
	EN-GJL-250
	ASTM A48-250B
Impeller:	PES 30%GF

G	RUNDFOS	Company name: Created by: Phone:	Hurley Engineering
		Date:	3/19/2020
Count	Description		
1	MAGNA3 40-180 F		
	Product No.: 98126836 MAGNA3 – More than a pump With its unrivalled efficiency, all-encompassir functionalities replacing system components, looking to create high-performance systems of This pump in the Grundfos Master Class will making it the obvious choice for almost any b The MAGNA3 is of the canned-rotor type, i.e seal and with only two gaskets for sealing. Th The innovative clamp with only one screw en The MAGNA3 is a pump with no maintenance Cost. The pump is characterised by the following: • controller integrated in the control box • control panel with TFT display on the control • control box prepared for optional CIM modu • built-in differential-pressure and temperature • caston-fiber-reinforced composite rotor can • stainless-steel bearing plate and rotor clado • aluminium alloy stator housing • air-cooled power electronics The MAGNA3 is a single-phase pump. Characteristic features • AUTOADAPT. • FLOWADAPT and FLOWLIMIT (more than throttling valves). • Proportional-pressure control. • Constant-pressure control.	the MAGNA3 is ideal for buildings. fit both heating and co building project – old o . pump and motor form he bearings are lubrica ables easy repositioni e requirements and w bl box lles e sensor lel) ling	for engineers and specifiers poling applications perfectly, r new. In an integral unit without shaft ated by the pumped liquid. Ing of the pump head. ith extremely low Life Cycle
	 Constant-curve duty. Max. or min. curve duty. Automatic Night Setback. No external motor protection required. Insulating shells supplied with single-head p Large temperature range where the liquid teindependent of each other. Communication The MAGNA3 enables communication via the 	emperature and the ar	

G	RUNDFOS	X	Company name: Created by: Phone:	Hurley Engineering		
			Date:	3/19/2020		
Count	Description					
	 wireless Grundfos GO Remote fieldbus communication via CIN digital inputs relay outputs analog input (more than a pum) 	/I modules	heat energy meter)			
	Motor and electronic controller 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.					
	The pump speed is controlled by an integrated frequency converter. A differential-pressure and temperature sensor is incorporated in the pump.					
	Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	nped liquid: Water id temperature range: 14 230 °F ected liquid temperature: 140 °F				
	Technical: Actual calculated flow: Resulting head of the pump: TF class: Approvals on nameplate:	60.1 US gpr 32.2 ft 110 98544605	m			
	Materials: Pump housing: Impeller:	Cast iron EN-GJL-250 ASTM A48- PES 30%G	250B			
	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 PN12 8 9/16 in				
	Electrical data: Power input - P1: Main frequency: Rated voltage: Maximum current consumption: Enclosure class (IEC 34-5): Insulation class (IEC 85):	16 600 W 60 Hz 1 x 208-230 0.18 2.65 X4D F	V			
	Others: Energy (EEI): Net weight: Gross weight: Shipping volume: Country of origin: Custom tariff no.:	0.19 30.8 lb 34.1 lb 1060 ft ³ US 8413.70.200	05			

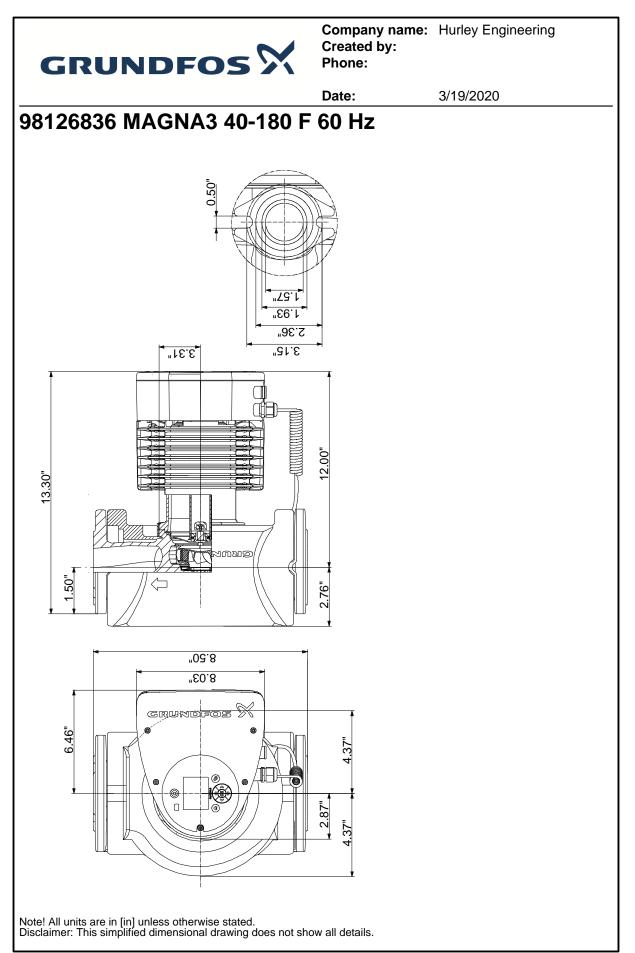


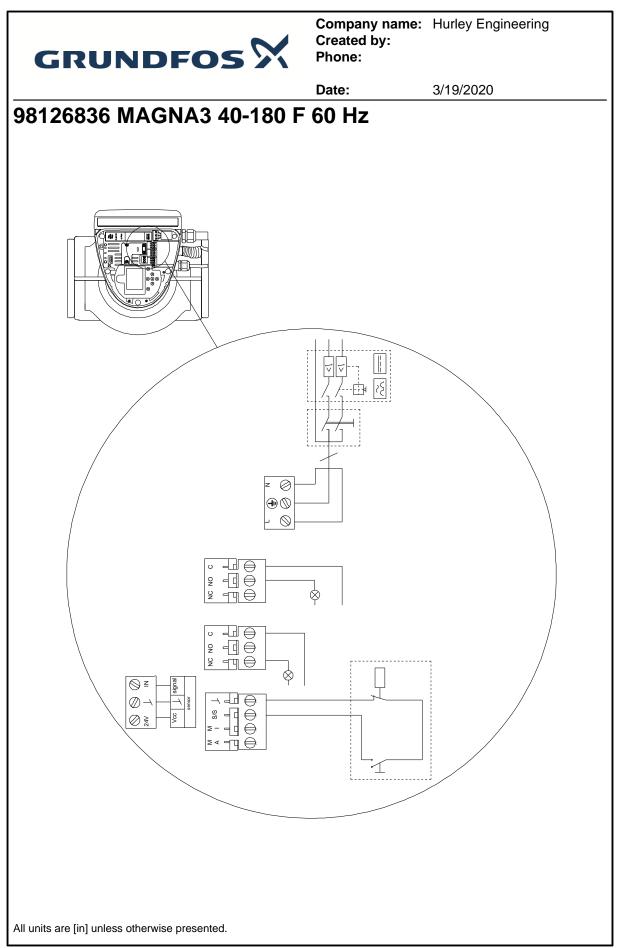
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Company name: Hurley Engineering Created by: Phone:

Description	Value	H [ft]	MAG	NA3 40-180 F
General information:	Taluc		Q = 60.1 US gpm	
Product name:	MAGNA3 40-180 F	65 -	H = 32.2 ft n = 78 % / 3850 rpm	
Product No.:	98126836	60 -	Pumped liquid = Water	
EAN:	5710629499981	55 -	Liquid temperature during operators Density = 61.35 lb/ft ³	ation = 140 °F
EAN.	5710629499981	50 -	Density = 01.00 lb/lt	- 100
Technical:	5710029499901			- 90
Actual calculated flow:	60.1 LIC apm	45 -		
	60.1 US gpm	40 - 7	8 %	- 80
Resulting head of the pump:	32.2 ft	35 -		- 70
Head max:	59.06 ft			- 60
TF class:	110	25 -		- 50
Approvals on nameplate:	98544605	20 -		- 40
Model:	D			
Materials:		15 -		- 30
Pump housing:	Cast iron	10 -		-20
	EN-GJL-250	5-		10
	ASTM A48-250B	0	Eff pump + motor + freq. o	
Impeller:	PES 30%GF	Ó	20 40 60 80 100	Q [US gpm]
Installation:		P1 - [W]		
Range of ambient temperature:	32 104 °F			
Maximum operating pressure:	174.05 psi	500 -		4
Flange standard:	GF	400 -		
Pipe connection:	GF15/26/40/43	-		
Pressure stage:	PN12			
Port-to-port length:	8 9/16 in	200 -		
Liquid:		100 -		
Pumped liquid:	Water		P1 (motor+freq.conve	erter) = 600 W
Liquid temperature range:	14 230 °F			
Selected liquid temperature:	140 °F		5.46" 1.50" -	
Density:	61.35 lb/ft ³			
Electrical data:	0110012/11			
Power input - P1:	16 600 W			
Main frequency:	60 Hz			
Rated voltage:	1 x 208-230 V		•*/	
Maximum current consumption:	0.18 2.65 A			3.15
Enclosure class (IEC 34-5):	X4D	2.87*	2.76" 12.00"	
Insulation class (IEC 85):	F	4.37" 4.	37*	
Others:	I			
	0.19			
Energy (EEI):				
Net weight:	30.8 lb			
Gross weight:	34.1 lb			
Shipping volume:	1060 ft ³			
Country of origin:	US			
Custom tariff no.:	8413.70.2005			





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