Submittal Data

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

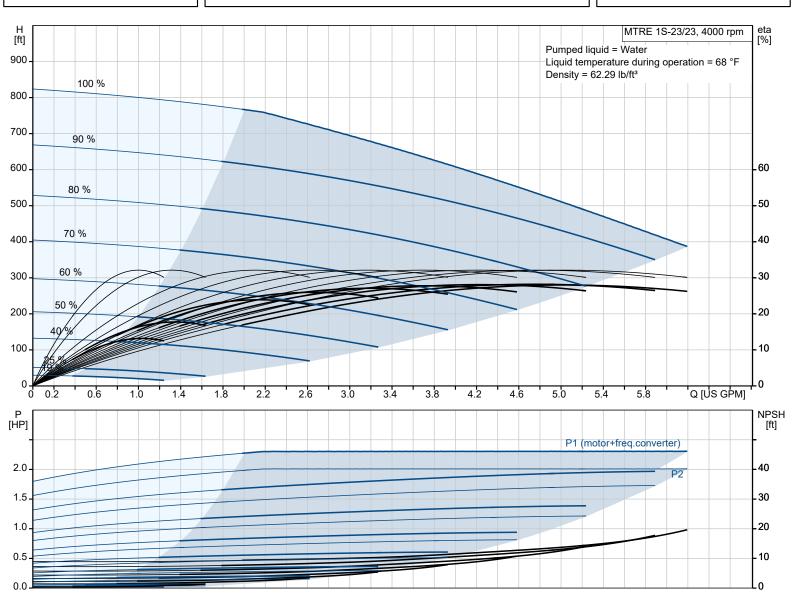


MTRE 1S-23/23 A-WB-A-HUUV

Vertical multistage centrifugal pump with integrated frequency converter designed for tank top mounting and for pumping of cooling lubricants and cutting oils for machine tools, cooling applications, industrial liquid transfer and similar applications.

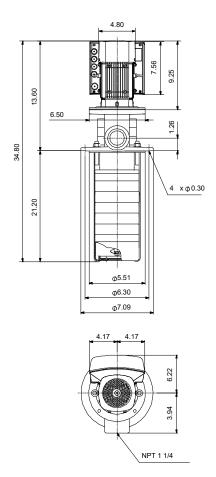
Note! Product picture may differ from actual product

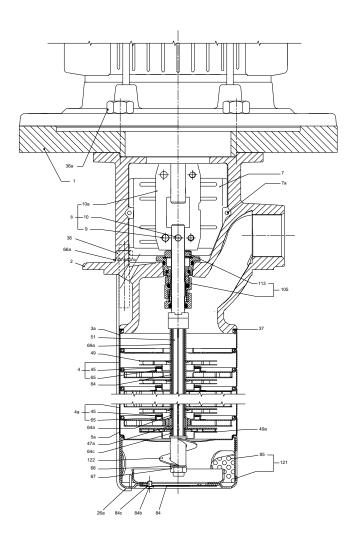
Conditions	of Service	rvice Pump Data		Motor Data	
Liquid:	Water	Max pressure at stated temp:	363 psi / 194 °F	Rated power - P2:	2 HP
Temperature:	68 °F	Liquid temperature range:	14 194 °F	Rated voltage:	200-240 V
Specific Gravity:	1.000	Maximum ambient temperature:	122 °F	Mains frequency:	60 Hz
		Approvals motor:	CE, RCM, cURus, IE5, IES2,	Enclosure class:	IP55
		Shaft seal:	HUUV	Insulation class:	F
		Product number:	98400095	Motor protection:	ELEC
				Motor type:	90C
				Eta 1/1:	87.4 %





Submittal Data





Materials:

Impeller:
Impeller:
Impeller:
Material code:

Stainless steel AISI 304 EN 1.4301 A



Date:

13/01/2023

Qty. | Description

1 MTRE 1S-23/23 A-WB-A-HUUV



Product No.: 98400095

Multistage, immersible, self-priming, centrifugal pump for vertical installation in tanks etc. The pump head and base are in cast iron – all other wetted parts are in stainless steel. The pump has the following characteristics TEST:

- Dimensions according to DIN 5440.
- Impellers, intermediate chambers and spline shaft are made of Stainless steel.
- Mechanical shaft seal according to EN 12756.
- Power transmission via sintered metal split coupling.

A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. The pump is fitted with a 1-phase, fan-cooled, permanent-magnet, synchronous motor.

The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement.

The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.

The display gives an intuitive and user-friendly interface to all functions.

The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop".

The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
 "Alarm": Motor has stopped (flashing red indicator lights).
- "Alarm": Motor has stopped (flashing red indicator lights).

Communication with the pump is also possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

The terminal box has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:

- two dedicated digital inputs
- three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V
- 5 V voltage supply to potentiometer and sensor
- one analog output, 0-10 V, 0(4)-20 mA
- · two configurable digital inputs or open-collector outputs
- two Pt100/Pt1000 inputs
- LiqTec, dry-running protection sensor input
- · Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- GENIbus connection
- interface for Grundfos CIM fieldbus module.

Controls: Frequency converter:	Built-in
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water 14 194 °F 68 °F 62.29 lb/ft³
Technical: Pump speed on which pump data Rated flow: Rated head: Chambers:	are based: 3350 rpm 4.84 US GPM 442.9 ft 23



Company name: Created by:

Qty. | Description

Phone: Date: 13/01/2023

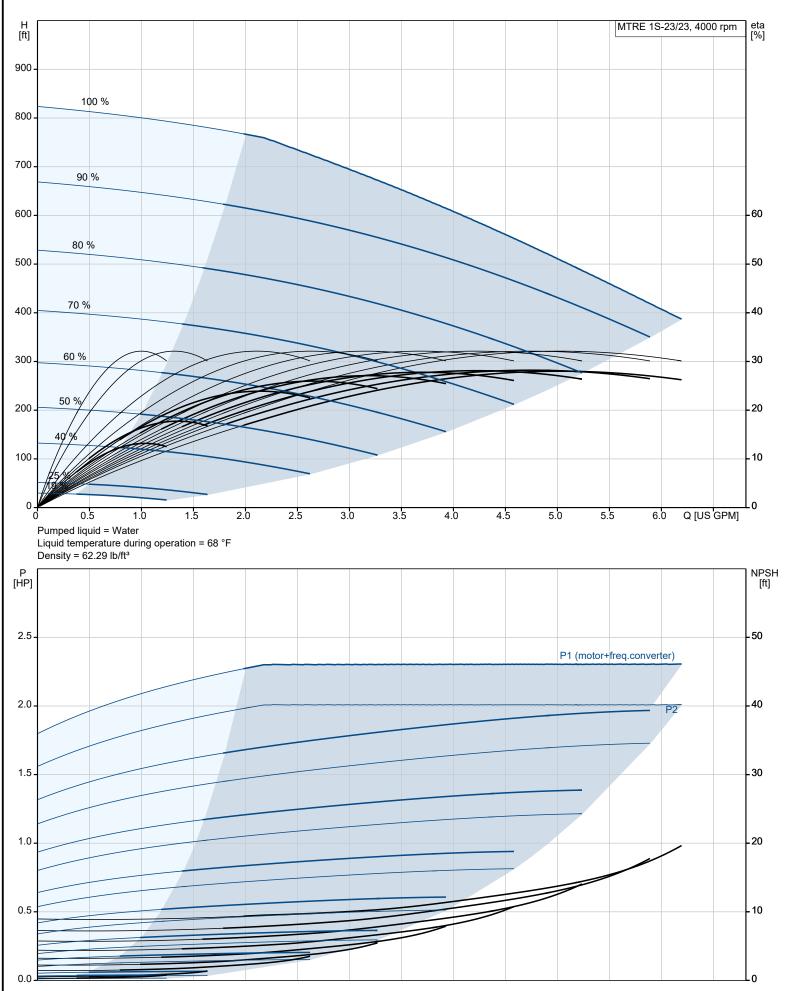
1 Drainage back to tank: Ν Pump orientation: Vertical HUUV Code for shaft seal: Approvals: CE CE, RCM, cURus, IE5, IES2, Approvals on motor nameplate: ISO9906:2012 3B Curve tolerance: Cable gland entry: 4xM20 blind plug Materials: Cast iron Pump head: EN 1561 EN-GJL-200 **ASTM A48-25B** Impeller: Stainless steel EN 1.4301 AISI 304 Installation: t max amb: 122 °F 362.59 psi Maximum operating pressure: 363 psi / 194 °F Max pressure at stated temp: Type of connection: NPT(F) Size of outlet connection: 1 1/4 inch Immersion depth: 21.2 in Flange size for motor: 56C Electrical data: Motor standard: NEMA Motor type: 90C IE Efficiency class: IE5 Rated power - P2: 2 HP Mains frequency: 60 Hz Suitable for 50/60 Hz: Υ Rated voltage: 1 x 200-240 V Service factor: 1.0 Rated current: 9.10-7.60 A Cos phi - power factor: 0.99 Rated speed: 360-4000 rpm Efficiency: 87.4% Motor efficiency at full load: 87.4 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98362279 Cable gland entry: 4xM20 blind plug Others: Terminal box position: 6 Minimum efficiency index, MEI ≥: 0.67 Net weight: 44.6 lb Gross weight: 85 lb Shipping volume: 8.12 ft³ Country of origin: US Custom tariff no .: 8413.70.2040



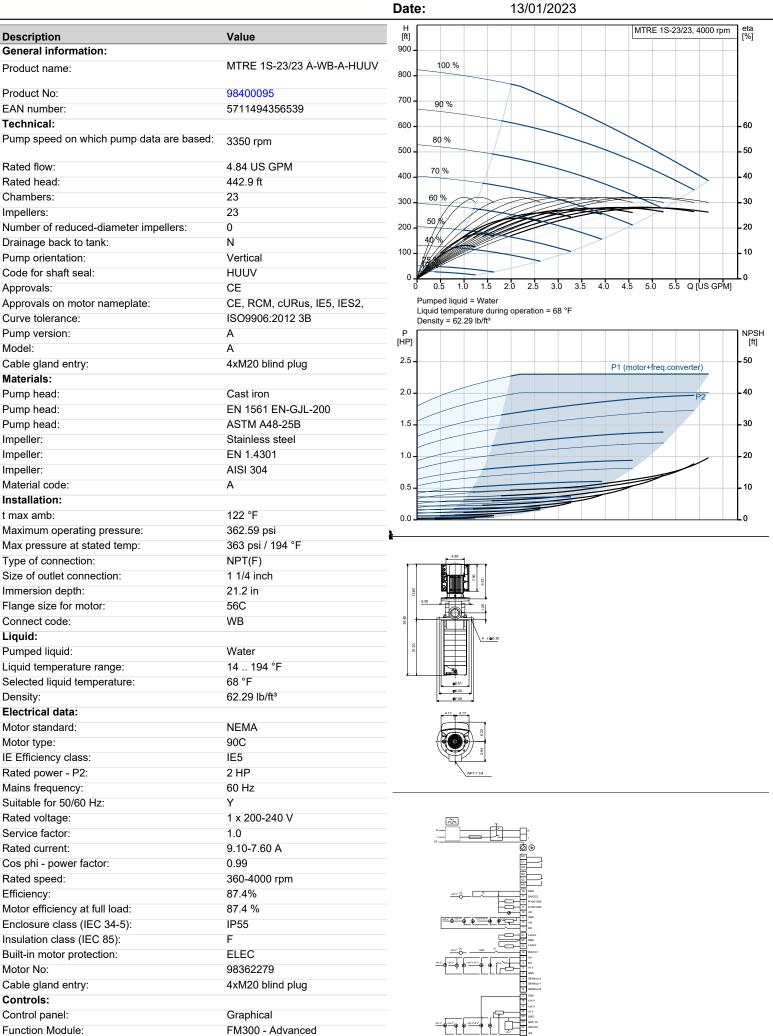
13/01/2023

Date:

98400095 MTRE 1S-23/23 A-WB-A-HUUV 60 Hz



Company name: Created by: Phone:





Date:

13/01/2023

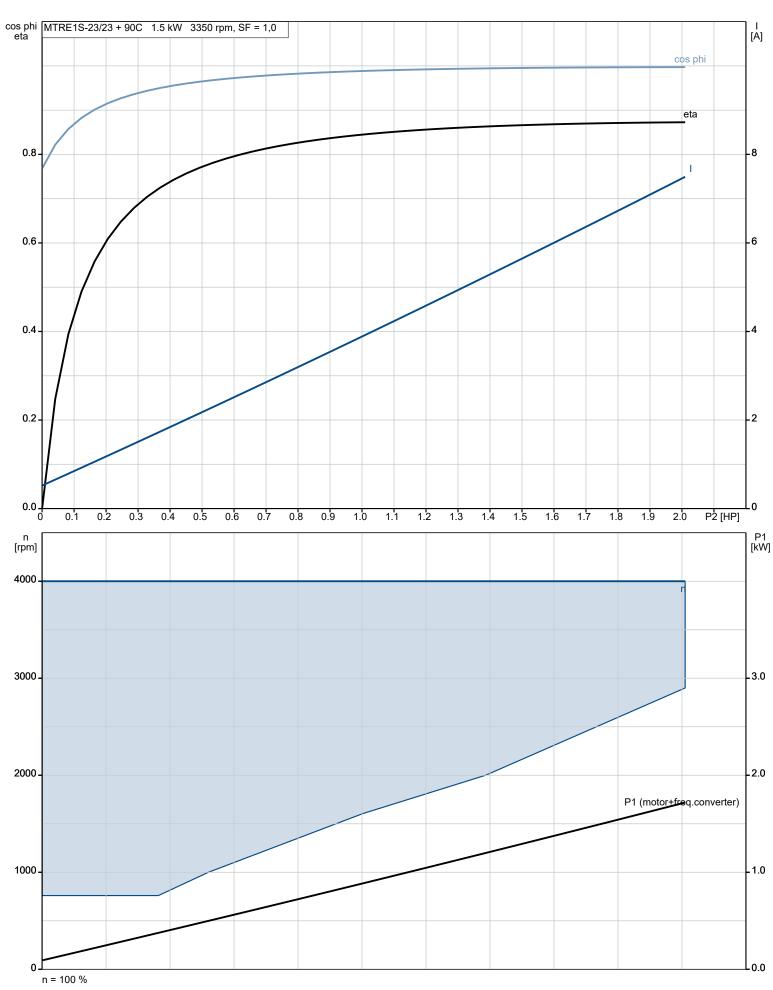
Description	Value
Frequency converter:	Built-in
Others:	
Terminal box position:	6
Minimum efficiency index, MEI ≥:	0.67
Net weight:	44.6 lb
Gross weight:	85 lb
Shipping volume:	8.12 ft ³
Country of origin:	US
Custom tariff no.:	8413.70.2040



13/01/2023

Date:

98400095 MTRE 1S-23/23 A-WB-A-HUUV 60 Hz

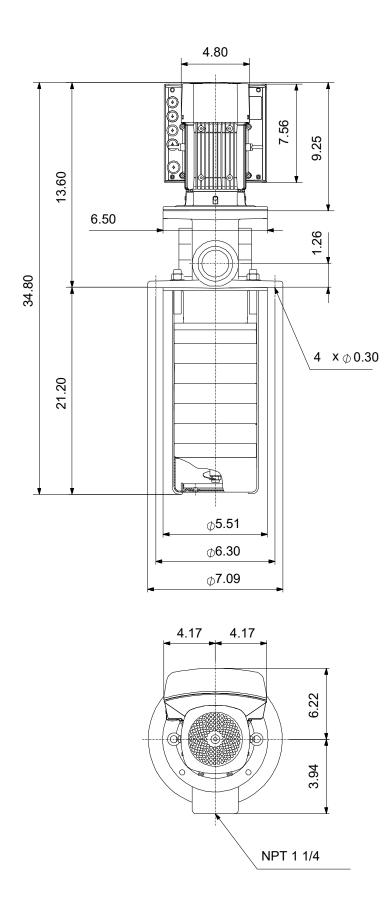


Company name: Created by: Phone:

Date:

13/01/2023

98400095 MTRE 1S-23/23 A-WB-A-HUUV 60 Hz



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

Company name: Created by: Phone:

Date:

13/01/2023

98400095 MTRE 1S-23/23 A-WB-A-HUUV 60 Hz

