# Submittal Data

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

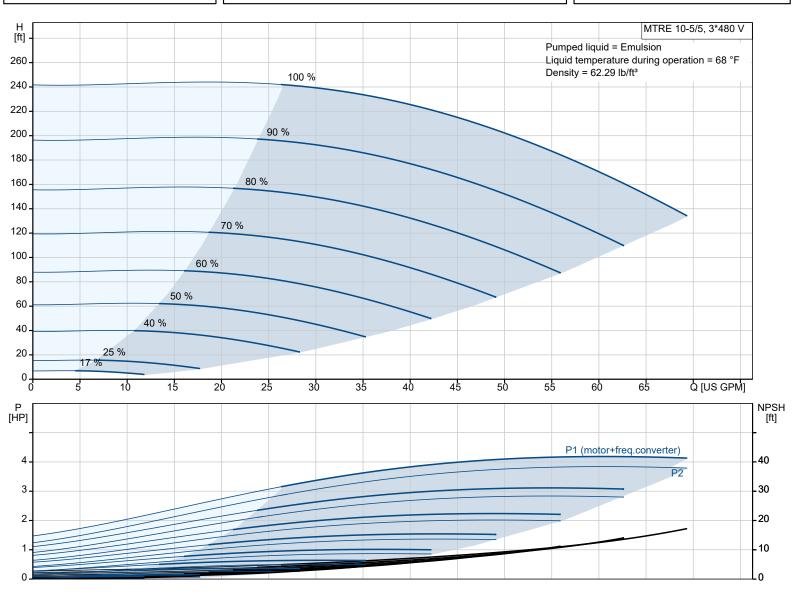


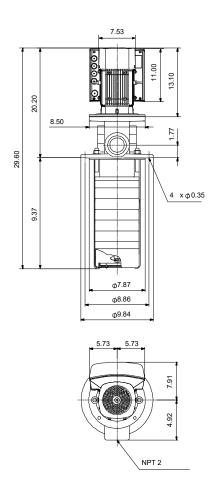
#### MTRE 10-5/5 A-WB-A-HUUV

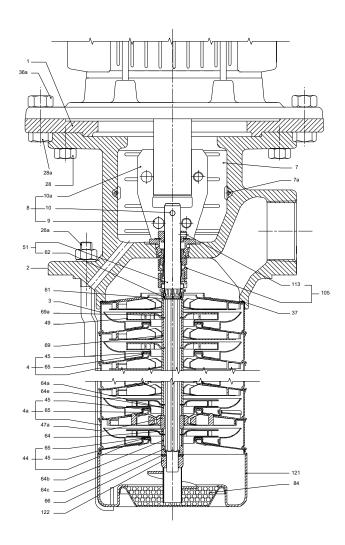
Vertical multistage centrifugal pump with integrated frequency converter designed for tank top mounting and for pumping of cooling lubricants and cutting oils for machine tools, cooling applications, industrial liquid transfer and similar applications.

Note! Product picture may differ from actual product

Conditions o	of Service	Pump Data		Motor Da	ata
Efficiency: Liquid: Temperature: NPSH required: Specific Gravity:	% Emulsion 68 °F ft 1.000	Max pressure at stated temp: Liquid temperature range: Maximum ambient temperature: Shaft seal: Product number:	363 psi / 194 °F 14 194 °F 122 °F HUUV 99077572	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	5 HP 440-480 V 60 Hz IP55 F ELEC 112C 92.5 %







#### Materials:

Impeller:
Impeller:
Impeller:
Material code:

Stainless steel AISI 304 EN 1.4301 A



Date:

08/04/2024

#### Qty. | Description

1 MTRE 10-5/5 A-WB-A-HUUV



#### Product No.: 99077572

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 TEST has the following characteristics:

- 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 3-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).

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.

Immersion depth:	9.37 in
Controls: Frequency converter:	Built-in
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Emulsion 14 194 °F 68 °F 62.29 lb/ft³
Technical: Pump speed on which pump data Rated flow: Rated head:	are based: 3461 rpm 53.3 US GPM 191.3 ft



#### Qty. Description

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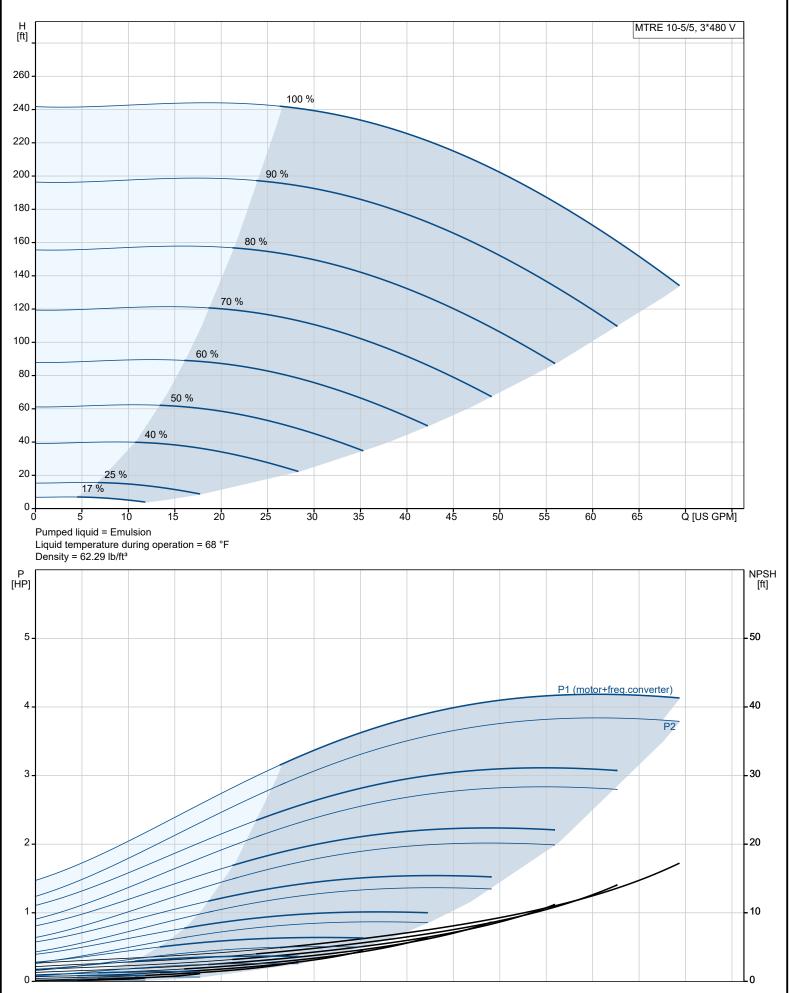
Chambers:	5
Drainage back to tank:	Ν
Pump orientation:	Vertical
Code for shaft seal:	HUUV
Approvals:	CE,UKCA,RCM,cURus/cCSAus
Approvals for motor:	CE, RCM, cURus, IE5, IES2,UKCA, SEPRO
Energy approvals for motor:	CE
Curve tolerance:	ISO9906:2012 3B
Cable gland entry:	5 x NPT 1/2"
Materials:	Casting
Pump head:	Cast iron
	EN 1561 EN-GJL-200
Impeller	ASTM A48-25B
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Installation:	
Maximum ambient temperatur	re: 122 °F
Maximum operating pressure:	: 362.59 psi
Max pressure at stated temp:	363 psi / 194 °F
Type of connection:	NPT(F)
Size of outlet connection:	2 inch
Immersion depth:	9.37 in
Flange size for motor:	182TC
Electrical data:	
Motor standard:	NEMA
Motor type:	112C
Rated power - P2:	5 HP
Mains frequency:	60 Hz
Suitable for 50/60 Hz:	Ŷ
Rated voltage:	3 x 440-480 V
Service factor:	1.15
Rated current:	6.20-5.80 A
Cos phi - power factor:	0.90-0.88
Rated speed:	360-4000 rpm
IE Efficiency class:	IE5
Motor efficiency at full load:	92.5 %
Enclosure class (IEC 34-5):	92.5 % IP55
Insulation class (IEC 85):	F
Motor No:	99256771
Others:	
Terminal box position:	6
Minimum efficiency index, ME	
Net weight:	110 lb
Gross weight:	174 lb
	40 0 #3
Shipping volume:	16.9 ft <sup>3</sup>
Shipping volume: Country of origin: Custom tariff no.:	US 8413.70.2040



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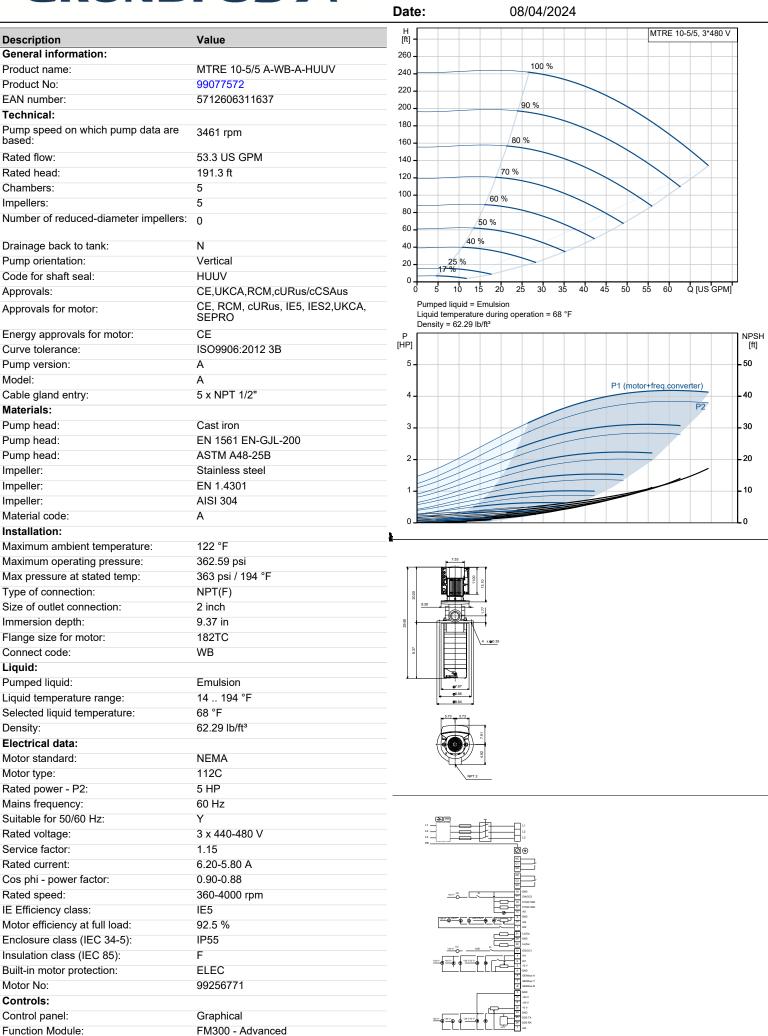
Date:

## 99077572 MTRE 10-5/5 A-WB-A-HUUV 60 Hz



# GRUNDFOS

#### Company name: Created by: Phone:





Date:

08/04/2024

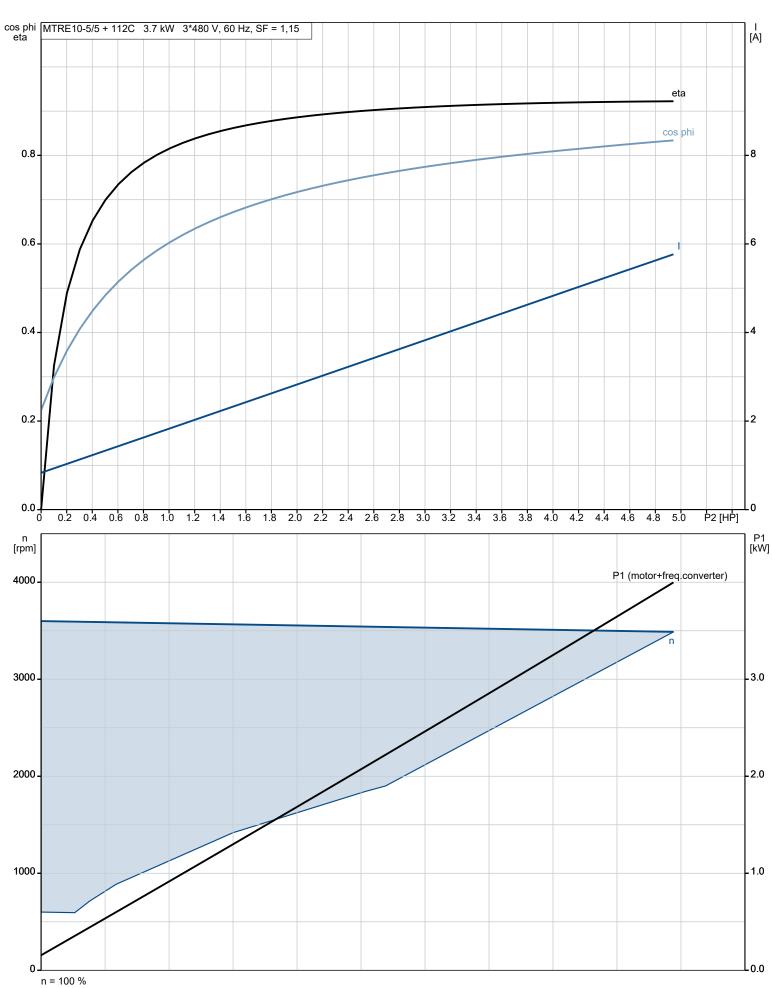
Description	Value
Frequency converter:	Built-in
Others:	
Terminal box position:	6
Minimum efficiency index, MEI ≥:	0.70
Net weight:	110 lb
Gross weight:	174 lb
Shipping volume:	16.9 ft <sup>3</sup>
Country of origin:	US
Custom tariff no.:	8413.70.2040



08/04/2024

Date:

## 99077572 MTRE 10-5/5 A-WB-A-HUUV 60 Hz



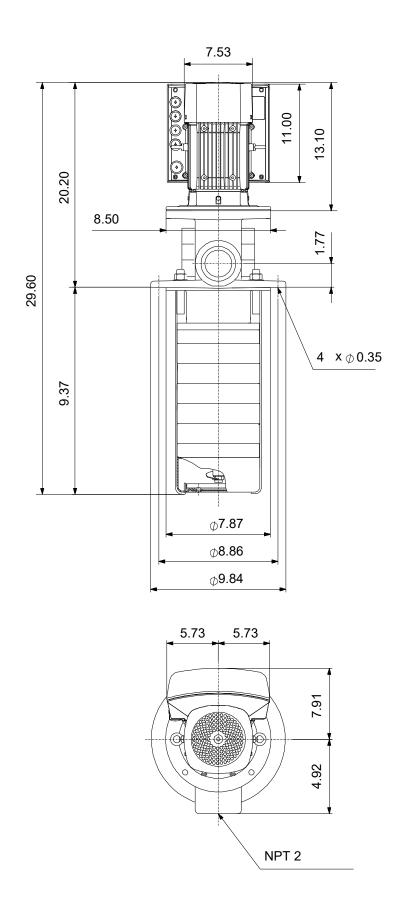
**GRUNDFOS** 

Company name: Created by: Phone:

Date:

08/04/2024

# 99077572 MTRE 10-5/5 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. **GRUNDFOS** 

Company name: Created by: Phone:

08/04/2024

## 99077572 MTRE 10-5/5 A-WB-A-HUUV 60 Hz

