

Submittal Data

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

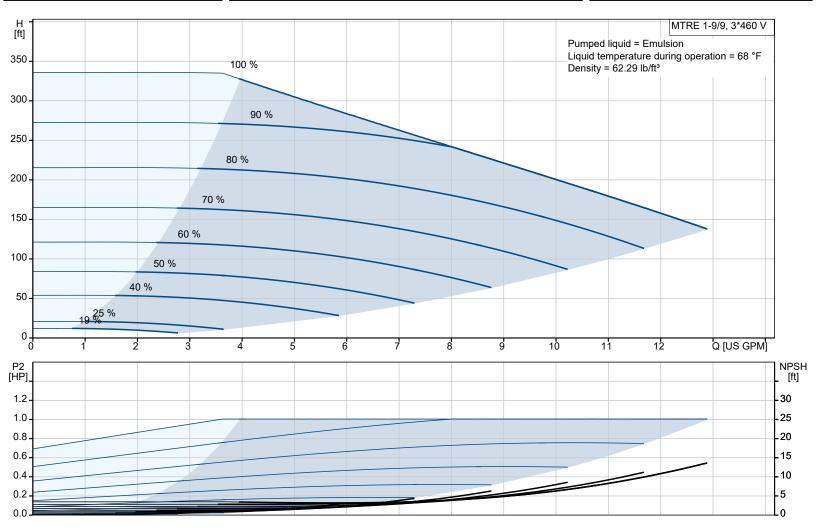


MTRE 1-9/9 A-WB-A-HUUV

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.

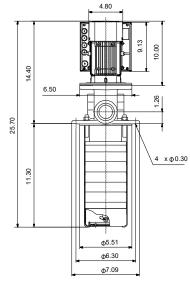
Note! Product picture may differ from actual product

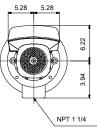
Conditions of	of Service	Pump Data		Motor Da	ata
Efficiency: Liquid: Temperature: NPSH required: Specific Gravity:	% Emulsion 68 °F ft 1.000	Max pressure at stated temp: Liquid temperature range: Maximum ambient temperature: Shaft seal: Product number:	363 psi / 194 °F 14 194 °F 122 °F HUUV 98400051	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	1 HP 440-480 V 60 Hz IP55 F ELEC 80A 86.4 %

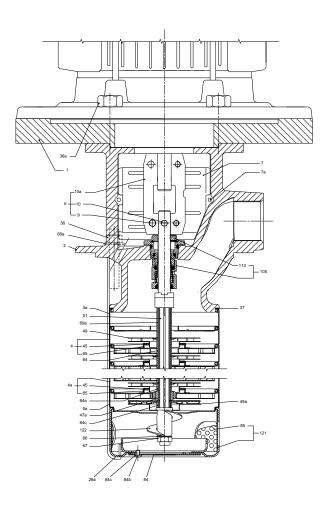




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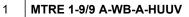
Materials:

Impeller:
Impeller:
Impeller:
Material code:

Stainless steel AISI 304 EN 1.4301 A



Qty. | Description





Product No.: 98400051

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 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.

Controls: Frequency converter:

er: Built-in

Liquid:	
Pumped liquid:	Emulsion
Liquid temperature range:	14 194 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft ³

Technical:

Date:

07/02/2023



Qty 1

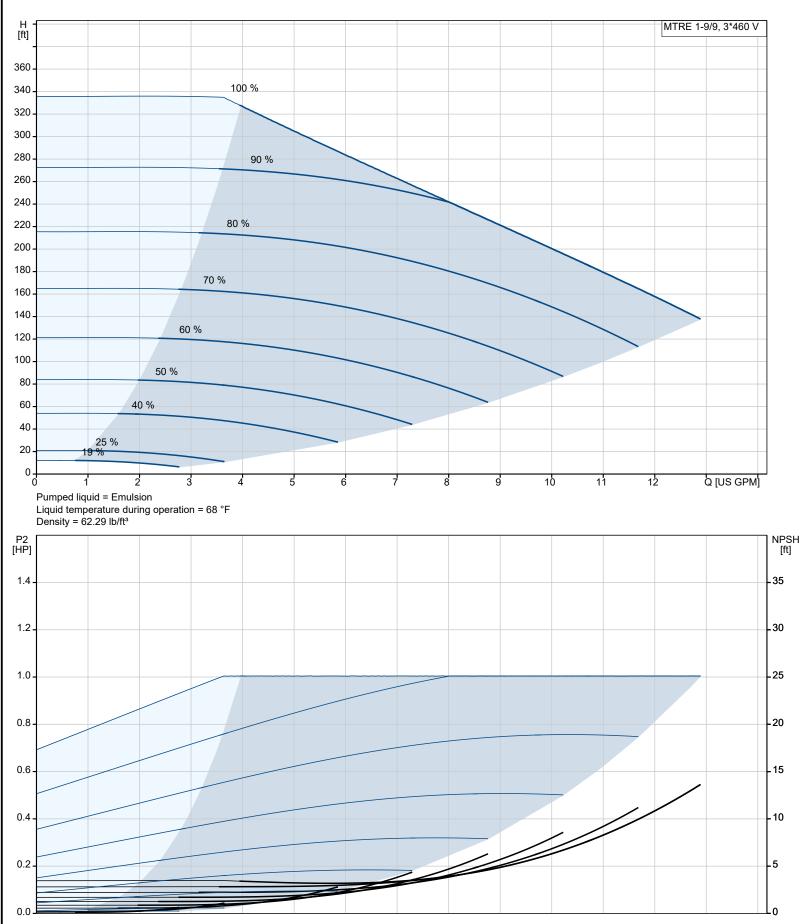
	Date: 07/02/2023
Description	
Pump speed on which pump data	a are based: 3484 rpm
Rated flow:	9.69 US GPM
Rated head:	197.5 ft
Chambers:	9
Drainage back to tank:	Ν
Pump orientation:	Vertical
Code for shaft seal:	HUUV
Approvals:	CE
Approvals for motor:	CE, RCM, cURus, IE5, IES2,UKCA, SEPRO
Energy approvals for motor:	CE
Curve tolerance:	ISO9906:2012 3B
Cable gland entry:	4xM20 blind plug
Mada siala	
Materials: Pump head:	Cast iron
Fump neau.	EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller	
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Installation:	
t max amb:	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:	1 1/4 inch
Immersion depth:	11.3 in
Flange size for motor:	56C
Electrical data:	
	NEMA
Motor standard:	
Motor type:	80A
IE Efficiency class:	
Rated power - P2:	1 HP
Mains frequency:	60 Hz
Suitable for 50/60 Hz:	Y
Rated voltage:	3 x 440-480 V
Service factor:	1.25
Rated current:	1.65 A
Cos phi - power factor:	0.73
Rated speed:	360-4000 rpm
IE efficiency:	86.4%
Motor efficiency at full load:	86.4 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	99256782
Cable gland entry:	4xM20 blind plug
Others:	
Terminal box position:	6
Minimum efficiency index, MEI ≥:	
Net weight:	42 lb
Gross weight:	74.4 lb
Shipping volume:	5.97 ft ³
Country of origin:	US
Custom tariff no.:	8413.70.2040



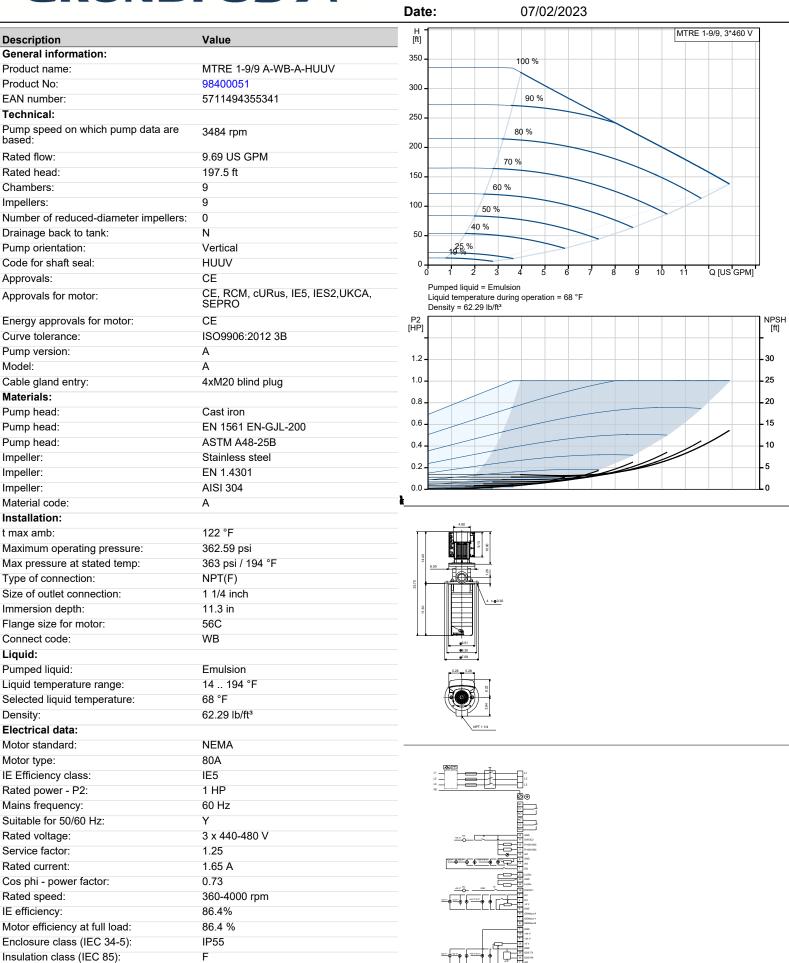
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98400051 MTRE 1-9/9 A-WB-A-HUUV 60 Hz







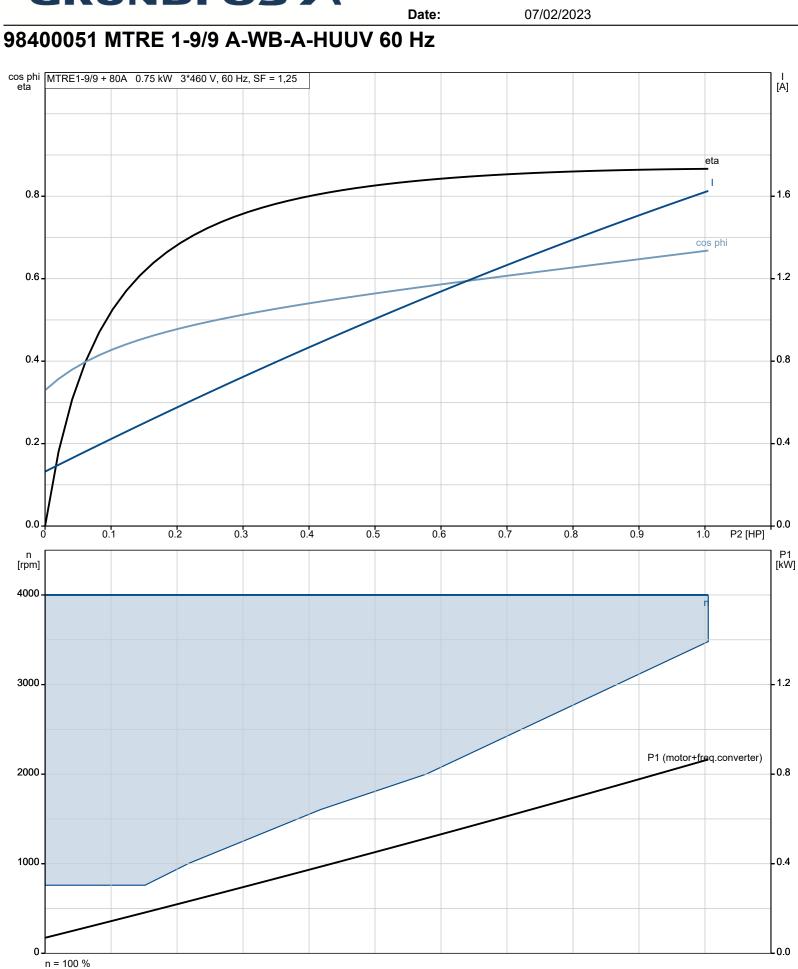


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Value Description Built-in motor protection: ELEC Motor No: 99256782 Cable gland entry: 4xM20 blind plug Controls: Control panel: Graphical FM300 - Advanced Function Module: Frequency converter: Built-in Others: Terminal box position: 6 Minimum efficiency index, MEI ≥: 0.70 Net weight: 42 lb Gross weight: 74.4 lb Shipping volume: 5.97 ft³ Country of origin: US Custom tariff no .: 8413.70.2040



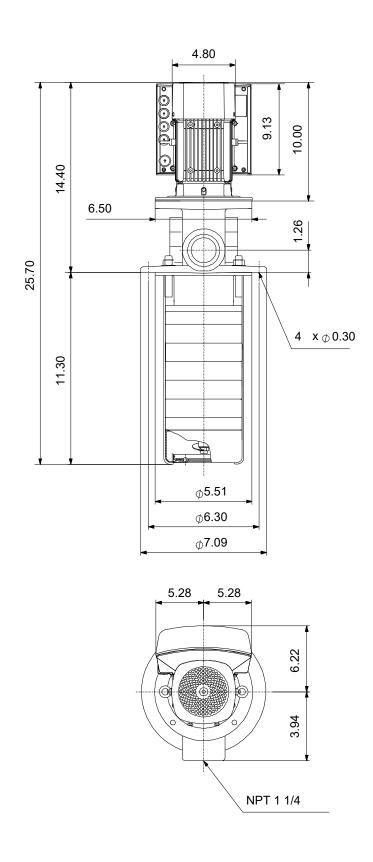




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98400051 MTRE 1-9/9 A-WB-A-HUUV 60 Hz



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



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