Qty. | Description

1 MTRE 1S-19/19 HS-W-A-HUUV



Product No.: On request

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. MTRE-HS is a single-pump solution capable of generating up to 38 bar.

The pump 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.

An operating panel on the motor terminal box enables 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 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:

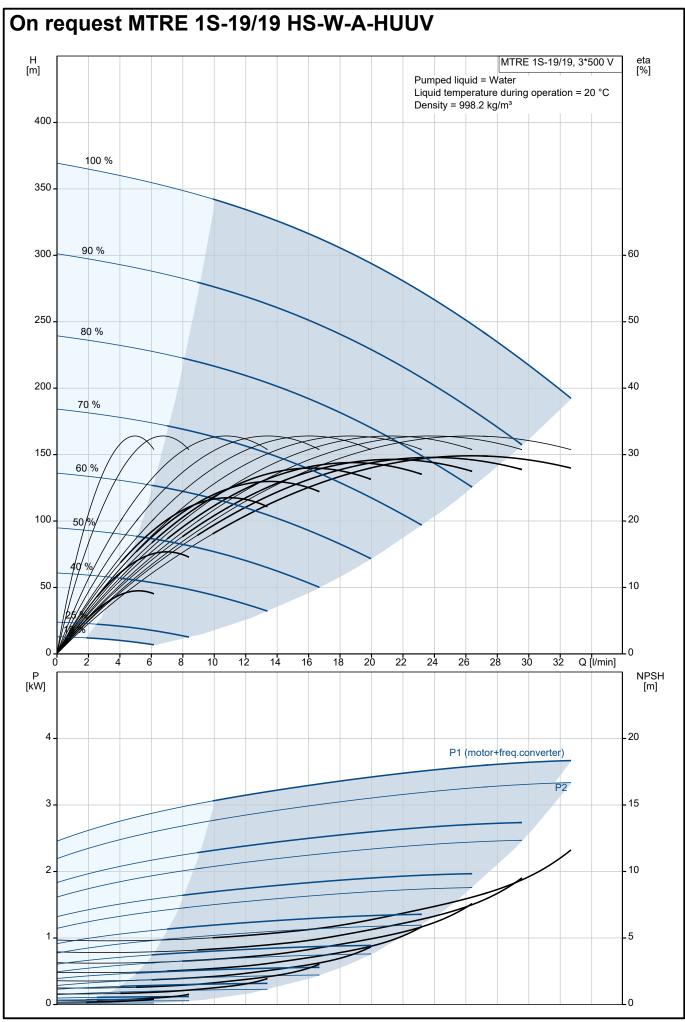
Pumped liquid: Water
Liquid temperature range: -10 .. 90 °C
Selected liquid temperature: 20 °C
Density: 998.2 kg/m³

Technical:

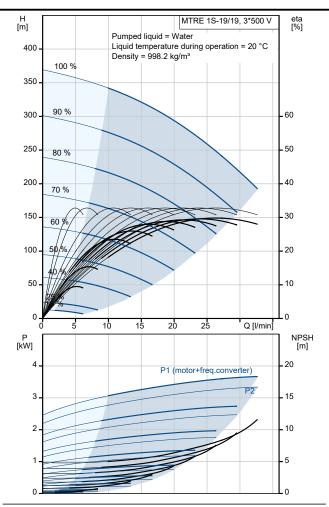
Pump speed on which pump data are based: 5374 rpm

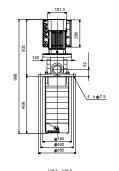
Rated flow: 15 l/min
Rated head: 350.6 m
Chambers: 19
Drainage back to tank: N

Description Pump orientation: Vertical Code for shaft seal: HUUV Approvals: CE Approvals on motor nameplate: CE,RCM,cURus,EAC,IES2,IE5,UKCA Curve tolerance: ISO9906:2012 3B Cable gland entry: 4xM20 + M25 blind plug Materials: Pump head: Cast iron EN 1561 EN-GJL-200 **ASTM A48-25B** Impeller: Stainless steel EN 1.4301 **AISI 304** Installation: t max amb: 50 °C Maximum operating pressure: 38 bar Max pressure at stated temp: 38 bar / 90 °C Type of connection: G Size of outlet connection: 1 1/4 inch Immersion depth: 466 mm Flange size for motor: FT130 Electrical data: Motor standard: IEC Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Mains frequency: 50 / 60 Hz Suitable for 50/60 Hz: Υ Rated voltage: 3 x 380-500 V Rated current: 7.60-6.10 A Cos phi - power factor: 0.92-0.87 Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98971055 Cable gland entry: 4xM20 + M25 blind plug Others: Terminal box position: Minimum efficiency index, MEI ≥: 0.67 Net weight: 51.2 kg Gross weight: 56.8 kg Shipping volume: 0 m^3 386980019 Danish VVS No.: Country of origin: HU Custom tariff no.: 84137075

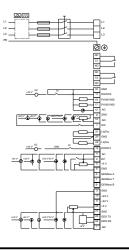


| Description Value General information: MTRE 1S-19/19 HS-W-A-HUUV Product No: On request EAN number: On request Technical: On request Pump speed on which pump data are based: 5374 rpm Rated flow: 15 l/min Rated head: 350.6 m Chambers: 19 Impellers: 19 Number of reduced-diameter impellers: 0 Number of reduced-diameter impellers: N Pump orientation: Vertical Code for shaft seal: HUUV Approvals: CE CERCM, cURus, EAC, IES2, IES (UKCA) Curve tolerance: ISO9906:2012 3B Pump version: HS Model: A Acable gland entry: 4xM20 + M25 blind plug Materials: Cast iron Pump head: Cast iron Pump head: Cast iron Pump head: EN 1561 EN-GJL-200 Pump head: EN 1561 EN-GJL-200 Pump head: EN 1561 EN-GJL-200 | | | | |
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| Size of outlet connection: Immersion depth: Flange size for motor: Connect code: W Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Suitable for 50/60 Hz: Rated voltage: Rated speed: Rated speed: Cos phi - power factor: Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: ET130 Water FT130 Water FT130 Water FT130 Water FT130 Water FT130 Co C Pa 90 °C Selected liquid temperature: 20 °C P98.2 kg/m³ EEC Motor Standard: IEC Motor Standard: IEC Motor On: 112MC IEE LEC Motor No: 12MC IEC Water 12MC IEC 4 kW Motor 12MC IES 12MC IES 12MC IPS IPS IPS IPS Insulation class (IEC 34-5): IPS5 Insulation class (IEC 34-5): IPS IIII Motor No: P88971055 | | 38 bar / 90 °C | | |
| Immersion depth: 466 mm Flange size for motor: FT130 Connect code: W Liquid: Pumped liquid: Water Liquid temperature range: -10 90 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Mains frequency: 50 / 60 Hz Suitable for 50/60 Hz: Y Rated voltage: 3 x 380-500 V Rated current: 7.60-6.10 A Cos phi - power factor: 0.92-0.87 Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | Type of connection: | G | | |
| Flange size for motor: Connect code: W Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pumped liquid: Selected liquid temperature: Density: Selected liquid temperature: Selectrical data: Motor standard: Motor type: IEC Motor type: IE Efficiency class: Rated power - P2: A kW Mains frequency: Suitable for 50/60 Hz: Y Rated voltage: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Hood-6.10 A Cos phi - power factor: D.92-0.87 Rated speed: Hood-5900 rpm Efficiency: Motor efficiency at full load: Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): Built-in motor protection: ELEC Motor No: W Water W W Hoter House Water 1090 °C C C C C C C P8.2 kg/m³ BEC A kW | Size of outlet connection: | 1 1/4 inch | | |
| Connect code: W Liquid: Pumped liquid: Water Liquid temperature range: -10 90 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Mains frequency: 50 / 60 Hz Suitable for 50/60 Hz: Y Rated voltage: 3 x 380-500 V Rated current: 7.60-6.10 A Cos phi - power factor: 0.92-0.87 Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | Immersion depth: | 466 mm | | |
| Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Selectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Suitable for 50/60 Hz: Y Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency at full load: Send to the solution of the | Flange size for motor: | FT130 | | |
| Pumped liquid: Water Liquid temperature range: -10 90 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Mains frequency: 50 / 60 Hz Suitable for 50/60 Hz: Y Rated voltage: 3 x 380-500 V Rated current: 7.60-6.10 A Cos phi - power factor: 0.92-0.87 Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | Connect code: | W | | |
| Liquid temperature range: Selected liquid temperature: Density: Blectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Suitable for 50/60 Hz: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: P988.2 kg/m³ EIC 1090 °C 20 °C 4 kW 4 con Hz 5 of 60 Hz 6 of 60 Hz 9 1.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | Liquid: | | | |
| Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: IEC Motor standard: IEC Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Mains frequency: 50 / 60 Hz Suitable for 50/60 Hz: Y Rated voltage: 3 x 380-500 V Rated current: 7.60-6.10 A Cos phi - power factor: 0.92-0.87 Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | Pumped liquid: | Water | | |
| Density: 998.2 kg/m³ Electrical data: IEC Motor standard: IEC Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Mains frequency: 50 / 60 Hz Suitable for 50/60 Hz: Y Rated voltage: 3 x 380-500 V Rated current: 7.60-6.10 A Cos phi - power factor: 0.92-0.87 Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | Liquid temperature range: | -10 90 °C | | |
| Electrical data: IEC Motor standard: IEC Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Mains frequency: 50 / 60 Hz Suitable for 50/60 Hz: Y Rated voltage: 3 x 380-500 V Rated current: 7.60-6.10 A Cos phi - power factor: 0.92-0.87 Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | Selected liquid temperature: | 20 °C | | |
| Motor standard: IEC Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Mains frequency: 50 / 60 Hz Suitable for 50/60 Hz: Y Rated voltage: 3 x 380-500 V Rated current: 7.60-6.10 A Cos phi - power factor: 0.92-0.87 Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | Density: | 998.2 kg/m³ | | |
| Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Mains frequency: 50 / 60 Hz Suitable for 50/60 Hz: Y Rated voltage: 3 x 380-500 V Rated current: 7.60-6.10 A Cos phi - power factor: 0.92-0.87 Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | Electrical data: | | | |
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| Rated voltage: 3 x 380-500 V Rated current: 7.60-6.10 A Cos phi - power factor: 0.92-0.87 Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | • | 50 / 60 Hz | | |
| Rated current: 7.60-6.10 A Cos phi - power factor: 0.92-0.87 Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | Suitable for 50/60 Hz: | Υ | | |
| Cos phi - power factor: Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: Motor No: 98971055 | Rated voltage: | 3 x 380-500 V | | |
| Rated speed: 480-5900 rpm Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | | 7.60-6.10 A | | |
| Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | Cos phi - power factor: | 0.92-0.87 | | |
| Efficiency: 91.3% Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | · ' | 480-5900 rpm | | |
| Motor efficiency at full load: 91.3 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | | | | |
| Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | • | 91.3 % | | |
| Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 98971055 | _ | | | |
| Built-in motor protection: ELEC Motor No: 98971055 | , , , | | | |
| Motor No: 98971055 | | ELEC | | |
| Cable gland entry: 4xM20 + M25 blind plug | • | | | |
| | Cable gland entry: | | | |
| Controls: | - | | | |



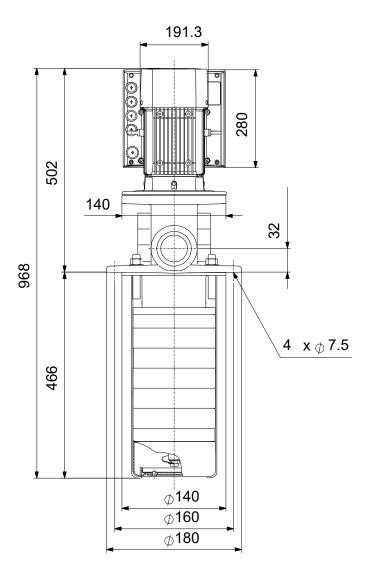


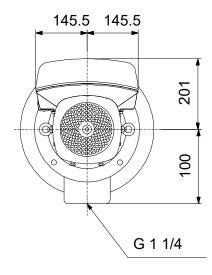




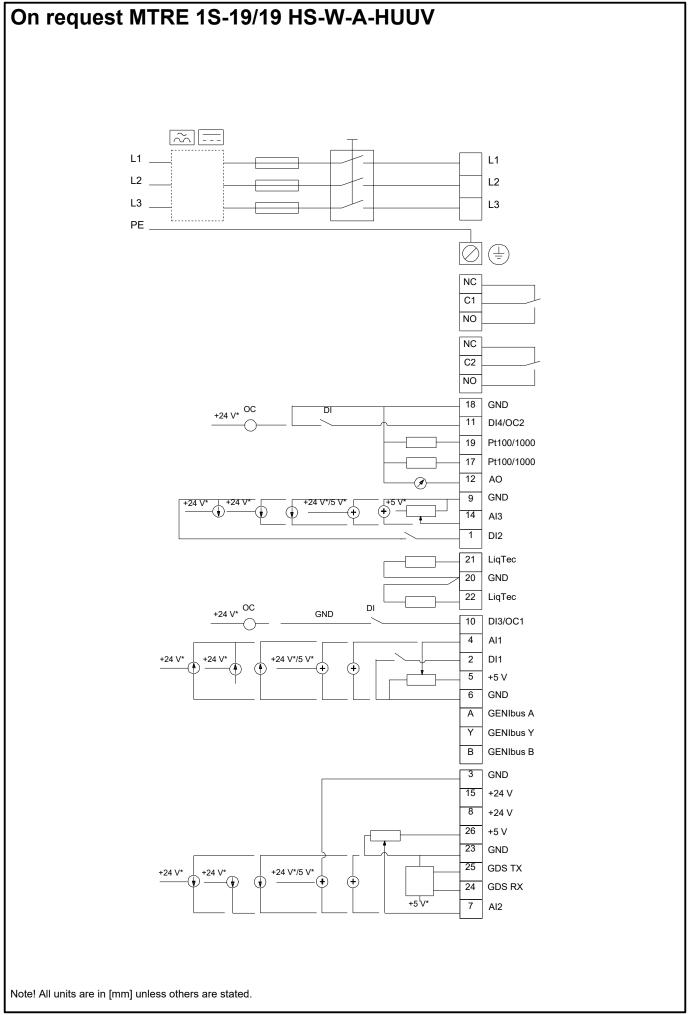
| Description | Value |
|----------------------------------|------------------|
| Control panel: | Standard |
| Function Module: | FM300 - Advanced |
| Frequency converter: | Built-in |
| Others: | |
| Terminal box position: | 6 |
| Minimum efficiency index, MEI ≥: | 0.67 |
| Net weight: | 51.2 kg |
| Gross weight: | 56.8 kg |
| Shipping volume: | 0 m³ |
| Danish VVS No.: | 386980019 |
| Country of origin: | HU |
| Custom tariff no.: | 84137075 |

On request MTRE 1S-19/19 HS-W-A-HUUV





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



| Order Data: | | | | | | | |
|-------------|-----------|---------------|----------|---|------------------|--|--|
| Position | Your pos. | Product name | Amount | Product No | Total | | |
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