

Qty. Description

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



Product No.: [99159851](#)

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.

Immersion depth: 466 mm

Controls:

Frequency converter: Built-in

Liquid:

Liquid temperature range: -10 .. 90 °C

Technical:

Pump speed on which pump data are based: 5374 rpm

Rated flow: 15 l/min

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1	<p>Rated head: 350.6 m</p> <p>Chambers: 19</p> <p>Drainage back to tank: N</p> <p>Pump orientation: Vertical</p> <p>Code for shaft seal: HUUUV</p> <p>Approvals: CE,UKCA,RCM,cURus/cCSAus</p> <p>Approvals for motor: CE, RCM, cURus, IE5, IES2,UKCA, SEPRO</p> <p>Energy approvals for motor: CE</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Cable gland entry: 4xM20 + M25 blind plug</p> <p>Materials:</p> <p>Pump head: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B</p> <p>Impeller: Stainless steel EN 1.4301 AISI 304</p> <p>Installation:</p> <p>Maximum ambient temperature: 50 °C</p> <p>Maximum operating pressure: 38 bar</p> <p>Max pressure at stated temp: 38 bar / 90 °C</p> <p>Type of connection: G</p> <p>Size of outlet connection: 1 1/4 inch</p> <p>Immersion depth: 466 mm</p> <p>Flange size for motor: FT130</p> <p>Electrical data:</p> <p>Motor standard: IEC</p> <p>Motor type: 112MC</p> <p>Rated power - P2: 4 kW</p> <p>Mains frequency: 50 / 60 Hz</p> <p>Suitable for 50/60 Hz: Y</p> <p>Rated voltage: 3 x 380-500 V</p> <p>Rated current: 7.60-6.10 A</p> <p>Cos phi - power factor: 0.92-0.87</p> <p>Rated speed: 480-5900 rpm</p> <p>IE Efficiency class: IE5</p> <p>Motor efficiency at full load: 91.3 %</p> <p>Enclosure class (IEC 34-5): IP55</p> <p>Insulation class (IEC 85): F</p> <p>Motor No: 98971055</p> <p>Cable gland entry: 4xM20 + M25 blind plug</p> <p>Others:</p> <p>Terminal box position: 6</p> <p>Minimum efficiency index, MEI ≥: 0.67</p> <p>Net weight: 51.2 kg</p> <p>Gross weight: 56.8 kg</p> <p>Shipping volume: 0 m³</p> <p>Danish VVS No.: 386980019</p> <p>Country of origin: HU</p> <p>Custom tariff no.: 84137075</p> <p>Environmental approvals: WEEE</p> <p>Environmental approvals for motor: WEEE</p>