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DATA SHEET

CSE MIX G75 5/4F Pump Station



| Main Features | |
|---------------|---|
| Application | It provides circulation and mixing of a heating circuit or a solid-fuel boiler circuit. Switching of a circulation pump and control of a mixing valve is realized by an external controller. |
| Description | It consists of Grundfos UPM3 FLEX AS 25-75 pump, LK 840 three-way mixing valve with AVC actuator, insulation. |
| Working fluid | Water; water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1). |
| Installation | On the flow/return pipe of a solid fuel boiler, min. pipe centre distance from wall = 100 mm. |
| Code | 16402 |

| Pump Station Data | |
|----------------------------------|---|
| Fluid working temperature | 5–95 °C |
| Max. working pressure | 10 bar |
| Min. working pressure | 0.5 bar |
| Ambient temperature | 5–40 °C |
| Max. relative humidity | 80%, non condensing |
| Pump station power supply | 230 V, 50 Hz |
| Max. power input of pump station | 63 W |
| Min./max. current to pump | 0.04 / 0.58 A |
| Mixing valve actuator torque | 5 Nm |
| Actuator angle of rotation | 90° |
| Actuator shift time | 120 s |
| Actuator control | 3-point |
| Mixing valve Kvs | 16 m³/h |
| Max. pressure difference | 5 mH ₂ O (at mixing valve inlets) |
| Leak rate | < 1 % Kvs at 5 mH ₂ O pressure difference (at mixing valve inlets) |
| Insulation material | EPP RG 60 g/l |
| Overall dimensions | 325 x 140 x 220 mm |
| Total weight | 4.0 kg |
| Connections | 3 x G 5/4" F |

Pump performance curves and indication of selected pump profile during operation H [m] Мах. Н Max. P Curve 8 (upper graph) 7 1 33 W 5 m 6 2 6 m 39 W 5 7.5 m 60 W 4 3 2 0 0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 Q [m³/h] Curve 3 (7,5 m) Curve 1 (5 m) Curve 2 (6 m) [W] 60 50 ■ The circulation pump can be controlled by an external PWM signal 40 (profile for use in heating systems) or without a PWM signal by selecting a pump performance curve (see the graph below). ■ Without PWM signal the pump runs at the max. speed according _1 30 20 to the selected curve. ■ With PWM signal the pump speed changes with the signal value up 10 to the maximum of the selected curve. 0 0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4

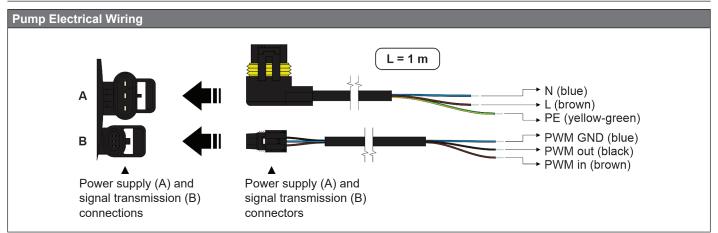
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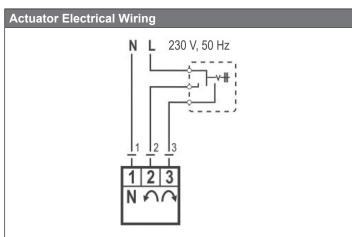
DATA SHEET

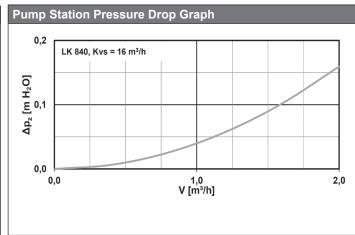
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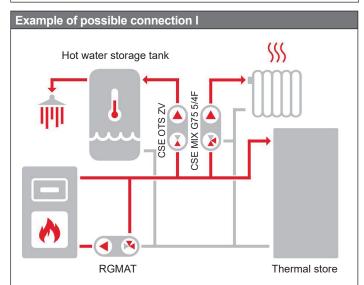


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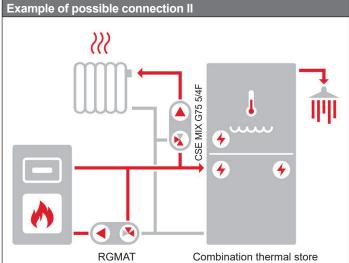
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The diagram shows a typical connection of a solid fuel boiler (with the recommended RGMAT pump station – not included in supply), thermal store and heating circuit. If the boiler is used also for hot water heating, it is recommended to install a CSE OTS ZV W pump station (not included in supply).



The diagram shows a typical connection of a solid fuel boiler (with the recommended RGMAT pump station – not included in supply), combination thermal store and heating circuit.