

**Flange heater Ø 240 mm**  
**Incoloy 825; 2.4858**

**AHFOR-BI-OP**

With combination of temperature control and safety temperature limiter  
Compatible with the consumption regulator Fronius Ohmpilot



**Application**

Auxiliary heating system of industrial water and heating water.

**Features**

**FH** The heating element is made of six U- shaped heating tubes, each press-fitted into a press-fitting nipple. These are bolted with the immersion tube onto a steel flange. A food-safe tesnit disk serves as insulation . This heating element can be used for stainless steel-, as well as for black steel or enamelled storage tanks. Depending on storage type, select the settings using the DIP switch.  
The unheated zone is 70 mm for all types.

**TC** Electromechanical temperature control acc. EN 14597, not fail safe .

**STL** Electromechanical safety temperature limiter acc. EN 14597, fail safe. If nominal value is reached, the limiter switches and stays locked in this position. Reset is performed manually and is only possible after the sensing element is cooled off by approx. 10 K.

- Time factor of sensing element acc. EN 14597
- Operation type TC Type 2 B acc. EN 14597
- Operation type STL Type 2 BK acc. EN 145979

**Type summary**

Industrial and heating water  
Incoloy 825; 2.4858

Type	Order no.	Power	Immersion length [EL]
AHFOR-BI-OP-18.0	012-5611	18.0kW; 400V 3~	490mm

**Technical data**

The following indications are valid for the above listed standard types. Due to the function, other types might show different data.

**Application range**

Adjustable cut-off temperature 0...\*...28...85 °C  
Safety cut-off temperature  $\vartheta_{off}$  110 °C (0-9 K)  
Ambient temperature on switching head max. 50 °C (T50)  
Thermal switching differential 11.0 K ± 5.5 K  
Ambient temperature for storage and transport -30...+90 °C

**Calibration**

Calibration tolerance ± 7 K  
Time factor in water <45 s

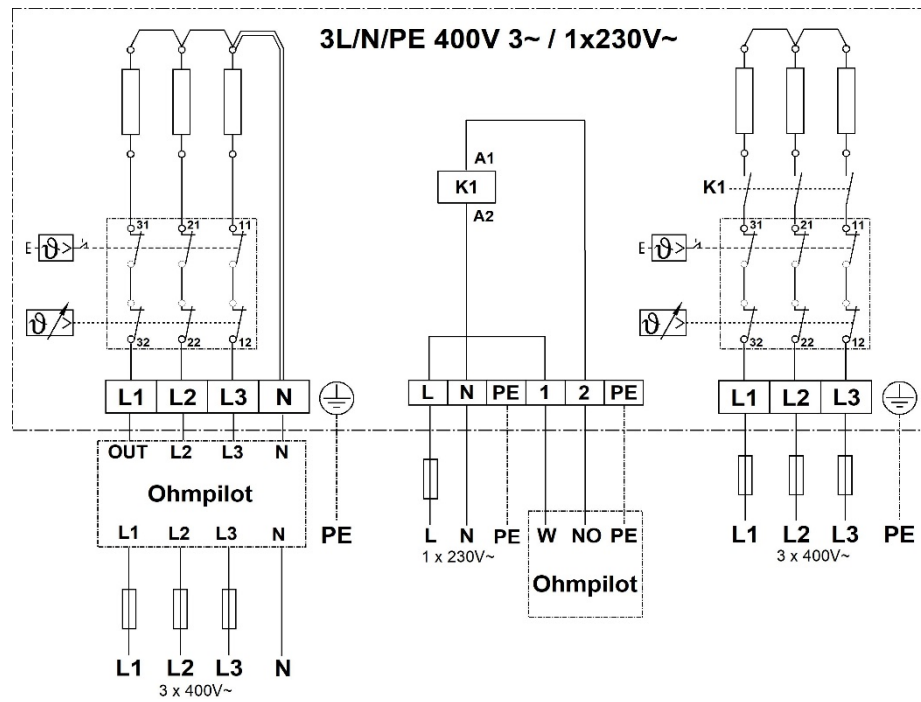
**Specification**

Flange material St 37  
Outside flange diameter Ø 240 mm  
Pitch circle diameter Ø 210 mm / 12 X M12  
Flange seal EPDM, KTW and FDA certification  
Tesnit sealing disk Tesnit BA-U light blue, KTW certification  
Heating tube industrial water Incoloy 825; 2.4858, Ø 8.2 mm  
Immersion tube Cronifer 1.4529  
Surface load 7 W/cm<sup>2</sup>  
Electrical connection Screw clip  
Operating pressure max. 10 bar  
Housing cover ABS UL94 V0, NCS 2005-R80B (light gray)  
Protection mode IP21 acc. EN 60529

## Fitting notes

The device must be installed horizontally. The heating tubes must be covered entirely by the liquid. The circulation of the liquid shall not be inhibited.

## Wiring diagram



## Dimension drawing

