

### Flange heater Ø 180 mm Incoloy 825; 2.4858

### AHFW-BI-A-...

with combination of temperature control and safety temperature limiter



#### Application

Auxiliary heating system of industrial water and heating water.

#### Features

- FH** The heating element is made of three 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 plastic disk serves as insulation. 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 14597

#### Type summary

Industrial and heating water  
Incoloy 825; 2.4858

Type	Order-no.	Power	Immersion length [EL]
AHFW-BI-A-2.0	012-1541	2.0kW; 400V 3~	260mm
AHFW-BI-A-2.5	012-1542	2.5kW; 400V 3~	310mm
AHFW-BI-A-4.0	012-1543	4.0kW; 400V 3~	260mm
AHFW-BI-A-6.0	012-1545	6.0kW; 400V 3~	360mm
AHFW-BI-A-7.5	012-1546	7.5kW; 400V 3~	420mm
AHFW-BI-A-8.0	012-1547	8.0kW; 400V 3~	450mm
AHFW-BI-A-9.0	012-1548	9.0kW; 400V 3~	490mm
AHFW-BI-A-10.0	012-1549	10.0kW; 400V 3~	540mm

#### 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 40...60...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 15.0 K  $\pm$  7.5 K  
 Ambient temperature for storage and transport -30...+95 °C

#### Calibration

Calibration tolerance  $\pm$  5 K  
 Time factor in water <45 s

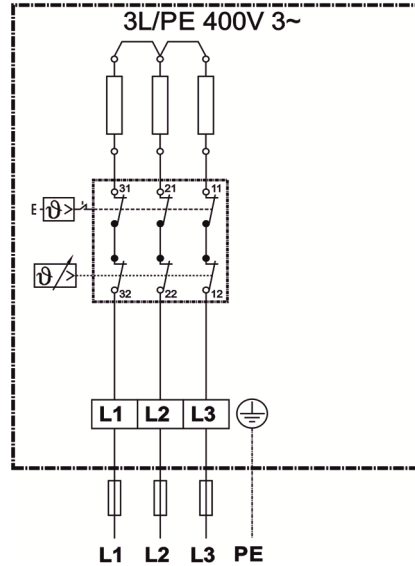
Specification

Flange material	St 37
Outside flange diameter	Ø 180 mm
Pitch circle diameter	Ø 150 mm / 8 X M12
Flange seal	EPDM, KTW certification
Plastic disk	PP-H, FDA certification
Heating tube	Incoloy 825; 2.4858, Ø 8.2 mm
Immersion tube	Cronifer 1.4529
Surface load	7 W/cm <sup>2</sup>
Electrical connection	Spring clip
Operating pressure	10 bar max.
Housing cover	Polycarbonate, RAL 7035 (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

