

Flange heater Ø 180 mm
Incoloy 825; 2.4858

AHFOR-BI-SE-...

With combination of temperature control and safety
temperature limiter
Compatible with the warm water controller
from SolarEdge

PV own power consumption

- Immersion heater with continuous adjustment via SolarEdge
- Power regulation from 0 to 100%

**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. Thanks to the insulated mounting of the heating tubes, the devices are also suitable for enamelled boilers. By using the integrated DIP switch, the potential equalisation resistance for the usage in stainless steel tanks is bridgeable. 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]
AHFOR-BI-SE-2.0	012-5801	2.0kW; 400V 3~	260mm
AHFOR-BI-SE-2.5	012-5802	2.5kW; 400V 3~	310mm
AHFOR-BI-SE-3.0	012-5803	4.0kW; 400V 3~	260mm

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 ϑ_{off}	110 °C (0-9 K)
	Ambient temperature on switching head	max. 50 °C (T50)
	Thermal switching differential	11.0 K \pm 5.5 K
	Ambient temperature for storage and transport	-30...+90 °C
Calibration	Calibration tolerance	\pm 7 K
	Time factor in water	<45 s

Specification

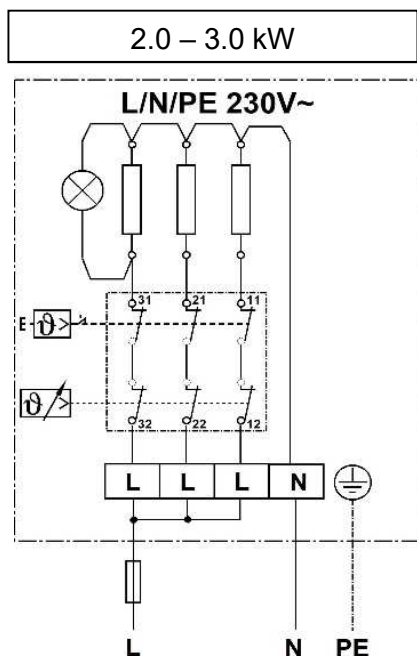
Flange material
Outside flange diameter
Pitch circle diameter
Flange seal
Plastic disk
Heating tube
Immersion tube
Surface load
Electrical connection
Operating pressure
Housing cover
Protection mode

St 37
Ø 180 mm
Ø 150 mm / 8 X M12
EPDM, KTW and FDA certification
PP-H, FDA certification
Incoloy 825; 2.4858, Ø 8.2 mm
Incoloy 825; 2.4858
7 W/cm²
Screw clip 4mm²
max. 10 bar
Polycarbonate, RAL 7035 (light gray)
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

