

**Type A**
**Screw-in heater**
**AHW-B-A-...**
**AHW-H-A-...**
**with combination of temperature control and safety temperature limiter**

**Application**

Auxiliary heating system of industrial water and heating water.

**Features**

- SH The heating element is made of three U-shaped heating tubes, which are soldered into a 1½" sonical brass nipple. The unheated zone is 150 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 water  
Cronifer 1.4529

Type	Order-no.	Power	Immersion length [EL]
AHW-B-A-1.0	012-3501	1.0kW; 400V 3~	300mm
AHW-B-A-1.5	012-3502	1.5kW; 400V 3~	300mm
AHW-B-A-2.0	012-3503	2.0kW; 400V 3~	300mm
AHW-B-A-2.5	012-3504	2.5kW; 400V 3~	300mm
AHW-B-A-3.0	012-3505	3.0kW; 400V 3~	400mm
AHW-B-A-3.8	012-3506	3.8kW; 400V 3~	450mm
AHW-B-A-4.5	012-3507	4.5kW; 400V 3~	500mm
AHW-B-A-6.0	012-3508	6.0kW; 400V 3~	600mm
AHW-B-A-7.5	012-3509	7.5kW; 400V 3~	700mm
AHW-B-A-9.0	012-3510	9.0kW; 400V 3~	750mm
AHW-H-A-1.0	012-3521	1.0kW; 400V 3~	300mm
AHW-H-A-1.5	012-3522	1.5kW; 400V 3~	300mm
AHW-H-A-2.0	012-3523	2.0kW; 400V 3~	300mm
AHW-H-A-2.5	012-3524	2.5kW; 400V 3~	300mm
AHW-H-A-3.0	012-3525	3.0kW; 400V 3~	400mm
AHW-H-A-3.8	012-3526	3.8kW; 400V 3~	450mm
AHW-H-A-4.5	012-3527	4.5kW; 400V 3~	500mm
AHW-H-A-6.0	012-3528	6.0kW; 400V 3~	600mm
AHW-H-A-7.5	012-3529	7.5kW; 400V 3~	700mm
AHW-H-A-9.0	012-3530	9.0kW; 400V 3~	750mm

 Heating water  
CN 18/8 1.4541

**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 ± 7.5 K
	Ambient temperature for storage and transport	-30...+90 °C
Calibration	Calibration tolerance	± 5 K
	Time factor in water	<45 s

Specification

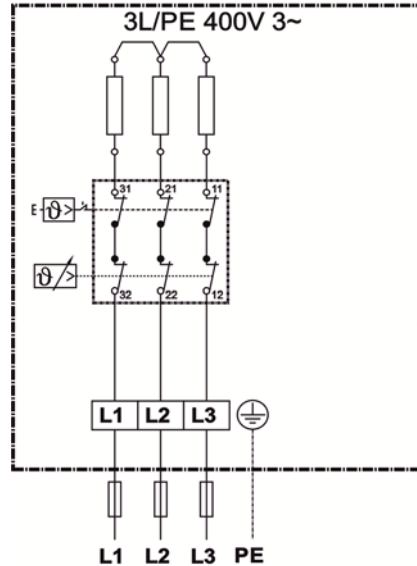
Fitting thread  
 Brass nipple  
 Heating tube industrial water  
 Heating tube heating water  
 Surface load  
 Electrical connection  
 Operating pressure  
 Housing cover  
 Housing base  
 Protection mode

R 1½" sonical  
 CuZn40Pb2  
 Cronifer 1.4529, Ø 8.2 mm  
 CN 18/8 1.4541, Ø 8.2 mm  
 8-9 W/cm<sup>2</sup>  
 Spring clip  
 10 bar max.  
 Polycarbonate, RAL 7035 (light gray)  
 Polycarbonate, RAL 7016 (anthracite gray)  
 IP41 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

