

Type A

Screw-in heater

AHIW-B-A-...
AHIW-BI-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 mounted isolated into a 1½" conical brass nipple by food-safe plastic sleeves.

Thanks to the insulated mounting of the heating tubes, the devices are also suitable for enamelled boilers.

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 OFF 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
Cronifer 1.4529

Type	Order-no.	Power	Immersion length [EL]
AHIW-B-A-1.0	012-4501	1.0kW; 400V 3~	300mm
AHIW-B-A-1.5	012-4502	1.5kW; 400V 3~	300mm
AHIW-B-A-2.0	012-4503	2.0kW; 400V 3~	300mm
AHIW-B-A-2.5	012-4504	2.5kW; 400V 3~	300mm
AHIW-B-A-3.0	012-4505	3.0kW; 400V 3~	400mm
AHIW-B-A-3.8	012-4506	3.8kW; 400V 3~	450mm
AHIW-B-A-4.5	012-4507	4.5kW; 400V 3~	500mm
AHIW-B-A-6.0	012-4508	6.0kW; 400V 3~	600mm
AHIW-B-A-7.5	012-4509	7.5kW; 400V 3~	700mm
AHIW-B-A-9.0	012-4510	9.0kW; 400V 3~	750mm
AHIW-BI-A-1.0	012-4541	1.0kW; 400V 3~	300mm
AHIW-BI-A-1.5	012-4542	1.5kW; 400V 3~	300mm
AHIW-BI-A-2.0	012-4543	2.0kW; 400V 3~	300mm
AHIW-BI-A-2.5	012-4544	2.5kW; 400V 3~	300mm
AHIW-BI-A-3.0	012-4545	3.0kW; 400V 3~	400mm
AHIW-BI-A-3.8	012-4546	3.8kW; 400V 3~	450mm
AHIW-BI-A-4.5	012-4547	4.5kW; 400V 3~	500mm
AHIW-BI-A-6.0	012-4548	6.0kW; 400V 3~	600mm
AHIW-BI-A-7.5	012-4549	7.5kW; 400V 3~	700mm
AHIW-BI-A-9.0	012-4550	9.0kW; 400V 3~	750mm

Industrial and heating water
Incoloy 825; 2.4858

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	Adjustment range	40...60...85 °C
	Cut-off temperature ϑ_{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...+90 °C
Calibration	Calibration tolerance	\pm 5 K
	Time factor in water	<45 s

Specification

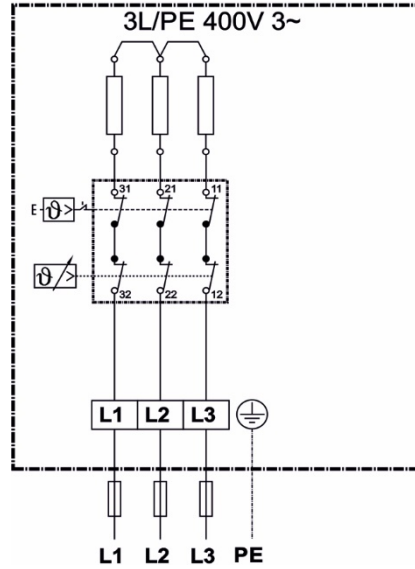
Fitting thread
 Brass nipple
 Heating tube Cronifer
 Heating tube Incoloy 825
 Surface load
 Electrical connection
 Operating pressure
 Housing cover
 Housing base
 Protection mode

R 1½" sonical
 CuZn40Pb2
 1.4529, Ø 8.2 mm
 2.4858, Ø 8.4 mm
 8-9 W/cm²
 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

