

**AHIR-B-S-...
AHIR-BI-S-...**
Screw-in heater

with combination of temperature control,
safety temperature limiter and operating light


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]
AHIR-B-S-1.0	012-4701	1.0kW; 230V~ / 400V 3~	300mm
AHIR-B-S-1.5	012-4702	1.5kW; 230V~ / 400V 3~	300mm
AHIR-B-S-2.0	012-4703	2.0kW; 230V~ / 400V 3~	300mm
AHIR-B-S-2.5	012-4704	2.5kW; 230V~ / 400V 3~	350mm
AHIR-B-S-3.0	012-4705	3.0kW; 230V~ / 400V 3~	400mm
AHIR-B-S-3.8	012-4706	3.8kW; 400V 3~	450mm
AHIR-B-S-4.5	012-4707	4.5kW; 400V 3~	500mm
AHIR-B-S-6.0	012-4708	6.0kW; 400V 3~	600mm
AHIR-B-S-7.5	012-4709	7.5kW; 400V 3~	700mm
AHIR-B-S-9.0	012-4710	9.0kW; 400V 3~	750mm
AHIR-BI-S-1.0	012-4741	1.0kW; 230V~ / 400V 3~	300mm
AHIR-BI-S-1.5	012-4742	1.5kW; 230V~ / 400V 3~	300mm
AHIR-BI-S-2.0	012-4743	2.0kW; 230V~ / 400V 3~	300mm
AHIR-BI-S-2.5	012-4744	2.5kW; 230V~ / 400V 3~	350mm
AHIR-BI-S-3.0	012-4745	3.0kW; 230V~ / 400V 3~	400mm
AHIR-BI-S-3.8	012-4746	3.8kW; 400V 3~	450mm
AHIR-BI-S-4.5	012-4747	4.5kW; 400V 3~	500mm
AHIR-BI-S-6.0	012-4748	6.0kW; 400V 3~	600mm
AHIR-BI-S-7.5	012-4749	7.5kW; 400V 3~	700mm
AHIR-BI-S-9.0	012-4750	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	0...*...28..85 °C
	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 ± 5.5 K
	Ambient temperature for storage and transport	-30...+90 °C
Calibration	Calibration tolerance	± 7 K
	Time factor in water	<45 s

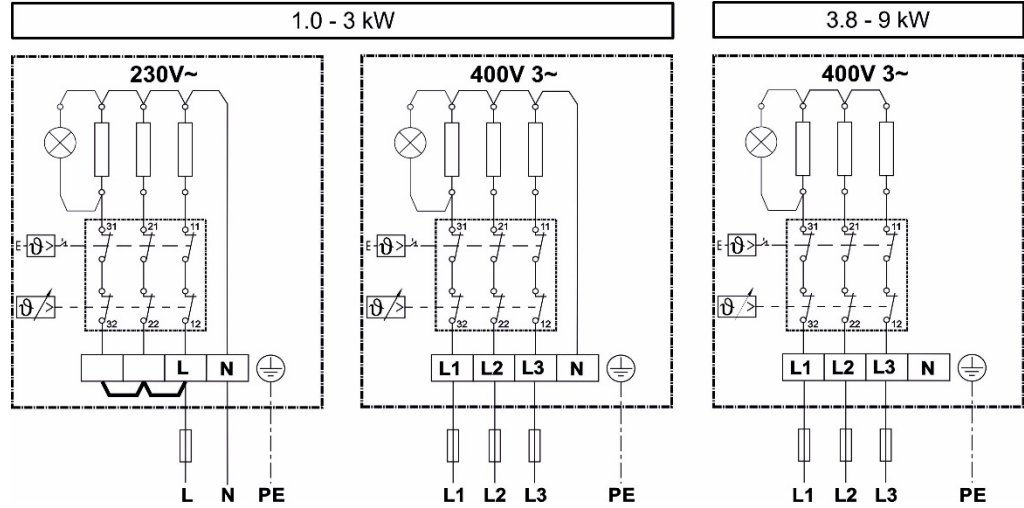
Specification

Fitting thread	R 1½" sonical
Brass nipple	CuZn40Pb2
Heating tube Cronifer	1.4529, Ø 8.2 mm
Heating tube Incoloy 825	2.4858, Ø 8.4 mm
Surface load	8-9 W/cm²
Electrical connection	Screw clip 4 mm²
Operating pressure	10 bar max.
Housing	Polycarbonate, RAL 7035 (light gray)
Protection mode	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

