

ASKOHEAT-FO 4.0 – 30.0 kW

Flange heater Ø 280 mm Incoloy 825; 2.4858

AHFOR-BI-A-...

with combination of temperature control and safety temperature limiter



Application Features

Auxiliary heating system of industrial water and heating water.

FH The heating element ist made of six 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 tesnit disk serves as insulation

This heating element is applicable in stainless steel boiler as well as in black steel / black steel enamelled boilers. Select the settings via DIP switch according to the boiler type. The unheated zone is 70 mm for all types.

Type A 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 E 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. 20 K.

• Time factor of sensing element acc. EN 14597

Operation type TC
 Type 1 B
 Acc. EN 14597
 Operation type STL
 Type 2 BDEFHKL
 Acc. EN 14597

Type summary

ary	Туре	Order-no.	Power		Immersion length [EL]
Type A	AHFOR-BI-A-4.0	012-1841	4.0 / 3.3 / 3.0 / 2.7 / 2.3 / 2.0kW;	400V 3~	260mm
	AHFOR-BI-A-5.0	012-1842	5.0 / 4.1 / 3.8 / 4.4 / 2.9 / 2.5kW;	400V 3~	260mm
	AHFOR-BI-A-8.0	012-1843	8.0 / 6.7 / 6.0 / 5.3 / 4.7 / 4.0kW;	400V 3~	260mm
	AHFOR-BI-A-10.0	012-1844	10.0 / 7.5 / 5.0kW;	400V 3~	300mm
	AHFOR-BI-A-12.0	012-1845	12.0 / 9.0 / 6.0kW;	400V 3~	360mm
	AHFOR-BI-A-15.0	012-1846	15.0 / 7.5kW;	400V 3~	420mm
	AHFOR-BI-A-16.0	012-1847	16.0 / 8.0kW;	400V 3~	440mm
	AHFOR-BI-A-18.0	012-1848	18.0 / 9.0kW;	400V 3~	490mm
	AHFOR-BI-A-20.0	012-1849	20.0 / 10.0kW;	400V 3~	540mm
Type E	AHFOR-BI-A-25.0	012-1850	25.0 / 12.5kW;	400V 3~	660mm
	AHFOR-BI-A-30.0	012-1851	30.0 / 15.0kW;	400V 3~	780mm

www.askoma.com 012-1841-E 01.09.2019 1/2

Technical data

The following indications are valid for the above listed standard types. Due to the function, other types might show different data.

0...*...28...85 °C / 15...95 °C

11.0 K \pm 5.5 K / 4.0 K \pm 2.0 K

EPDM. KTW and FDA certification

Incoloy 825; 2.4858, Ø 8.2 mm

Tesnit BA-U light blue, KTW certification

110 °C (0-9 K)

-30...+90 °C

 \pm 7 K / \pm 6 K

Ø 280 mm

Cronifer 1.4529 7 W/cm²

10 bar max.

Screw type terminal

Ø 245 mm / 12 X M14

<45 s

St 37

max. 50 °C (T50)

Application range

Calibration

Adjustable cut-off temperature Type A / Type E

Safety cut-off temperature 9off

Ambient temperature on switching head Thermal switching differential Type A / Type E

Ambient temperature for storage and transport Calibration tolerance Type A / Type E

Time factor in water

Specification Flange material

Outside flange diameter

Pitch circle diameter

Flange seal Tesnit disk

Heating tube industrial water

Immersion tube Surface load

Electrical connection

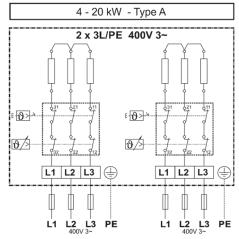
Operating pressure

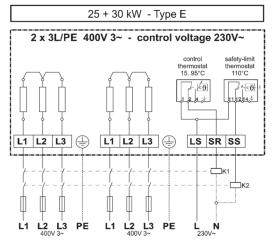
ABS UL94 V0, NCS 2005-R80B (light gray) Housing cover Protection mode IP21 acc. EN 60529

Fitting notes

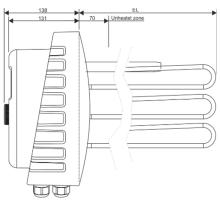
The device must be installed horizontally. The heating tubes must be covered entirely by the liquid. The circulation of the liquid shall not be inhibited.

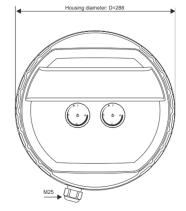
Wiring diagram

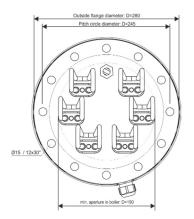




Dimension drawing







012-1841-E 01.09.2019 2/2 www.askoma.com