SL MEGATHERM D.A Self-Limiting Heater

8 Temperature Limitation

PTC-elements (**P**ositive **T**emperature **C**oefficient) raise their electric resistance with rising temperature. High resistance means low heating power. The heating power gets very low at high temperatures so that the temperature cannot exceed the maximum temperature of the respective temperature class. The PTB Certificate of Conformity stipulates that the heat transfer coefficient of the surrounding enclosure must not be less than K=0.5 W/K. All INTERTEC enclosures meet these requirements.

9 Supply Voltage

In addition to the mentioned temperature characteristics, the PTC-elements shows a varistor effect. They control their resistance in accordance to the supply voltage. The nominal power supply voltage may be 110 V to 265 V with the same heater. The heating capacity output may deviate up to 15% from the data shown in the performance diagram (4)

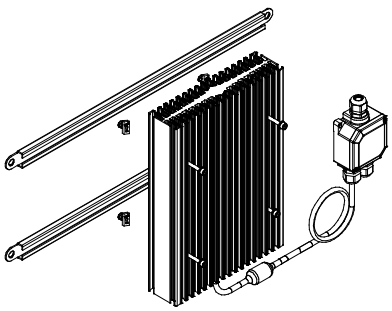
10 Installation, Minimum Clearances

During installation, attention should be paid to the following:

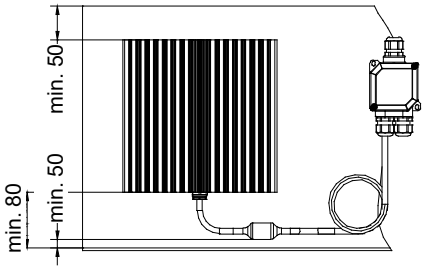
- installation and operating instructions supplied with the heater MEGATHERM
- The fins must be positioned vertically
- Please note minimum clearances to the enclosure, as per 10.1.1 und 10.1.2
- For temperature maintenance install the TAE thermostat on the heater, see 10.2
- The lable must be clearly legible

The INTERTEC universal mounting bracket supplied with the heater is very versatile and bolts and nuts are included in the mounting kit.

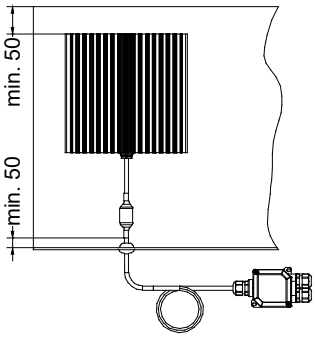
10.1 MEGATHERM with TS



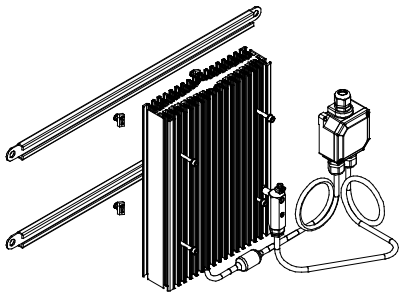
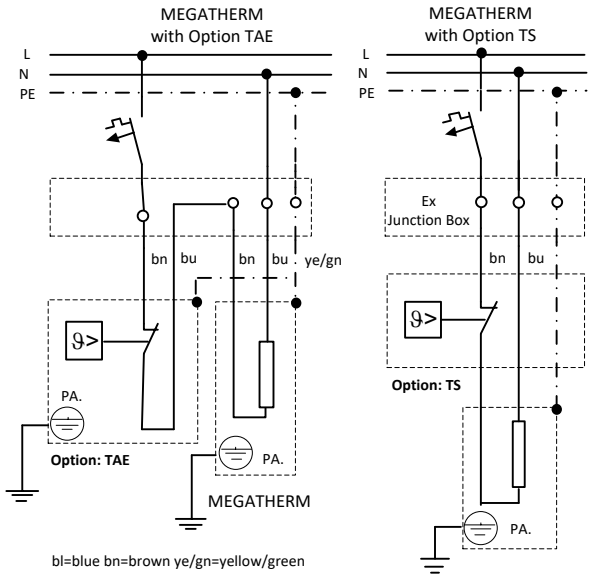
10.1.1 with customer supplied internal junction box



10.1.2 with customer supplied external junction box



10.2 MEGATHERM with TAE



11 Electric Wiring