



CP SLIMTHERM C Electric Heater

1 Application

The SLIMTHERM electric heater has an exceptionally flat design and is to be used in hazardous areas where heating is necessary, but physical space place is scarce. One side of the heater is flat. Suitable to be attached directly to a flat surface which conducts heat well (metal). The other side of the heater is finned, optimized to heat the surrounding air.

2 Special Features & Advantages

- Exceptionally flat design (30 mm)

3 Description

SLIMTHERM heaters heats through its' finned side the air in the enclosure by convection and through its' flat side by conduction. A non-resettable temperature limiter built to ATEX design specifications is integrated in the core block, cutting off the power in case of a technical failure or excessive heating resulting from an external heat source. For this reason and for reasons of operational safety the heater must only be operated under conditions that ensure that the trip temperature of the limiter will not be exceeded:

The ambient temperature in the enclosure must not exceed the maximum permissible values. This, in case of freeze protection heaters, will be guaranteed by the TS thermostat or, in case of heaters used for temperature maintenance, by the TS 40 protective thermostat. Therefore, a CP SLIMTHERM heater must have a TS thermostat.

For temperature maintenance, an additional external TAE thermostat must be connected in series and installed on the surface of the heater to enhance thermal coupling. Alternatively, a TC temperature controller can be used.

Ensure effective convection by observing the necessary overall clearance of 3 cm save the flat side of the heater. Take care not to cover the fins.

A residual-current-operated protective device with a rated value of not more than 300 mA, preferably 30 mA should be installed.

A temperature indicator shows potential problems and failures at an early stage (e.g. incorrect installation). Please check the application if more than 3 fields have irreversibly changed to black.



WARRANTY NULL AND VOID IF HEATER STRIP HAS BEEN REMOVED FROM HEATER.

All INTERTEC explosion-proof heaters can also be supplied

- to European ATEX standard (ATEX/ IEC).
Ordering Example: CP SLIMTHERM **DPA** 100 T4
- in a less expensive, **Non-explosion-proof** design
Ordering Example: CP SLIMTHERM **NNA** 75 T3
- as Bi-Standard (see datasheet HD608-xc).



4 Technical Data

CSA Certificate	File # 1655545 (LR43674)
CSA Type of Protection	Cl. 1, Div. 1, Gp ABCD T3/ T4
Ingress Protection	NEMA 4X, IP 68
Nominal voltage	120 V
Connection cable	silicone cable, notch and oil resistant, 3x 1,5mm ² 8,1mm Ø
Width x Depth	8.1 x 1.2"/ 206 x 30 mm
Material	seawater-proof aluminium, black anodized

5 Types

(Other types upon request.)

5.1 for freeze protection

CP SLIMTHERM	CNA 75 T4	CLA 125 T3	CPA 100 T4	CPA 200 T3	CPA 250 T3
Temp. class	T4	T3	T4	T3	T3
Nom. Power	75 W	125 W	100 W	200 W	250 W
Height	6.1"/ 155mm	4.1"/ 105mm	8.9"/ 225mm		

5.2 for temperature maintenance to 40° C

CP SLIMTHERM	CLA 30 T3	CNA 50 T3	CNA 50 T4	CNA 75 T3	CNA 100 T3
Temp. class	T3	T3	T4	T3	T3
Nom. Power	30W/24V	50 W	50 W	75 W	100 W
Height	4.1"/ 105mm	6.1"/ 155mm			

6 Options

AM	Failure alarm opening at <41°F/ <5°C
3M	Connection cable 10'/ 3 m long
TS	Thermostat in the cable

Not all options can be combined.

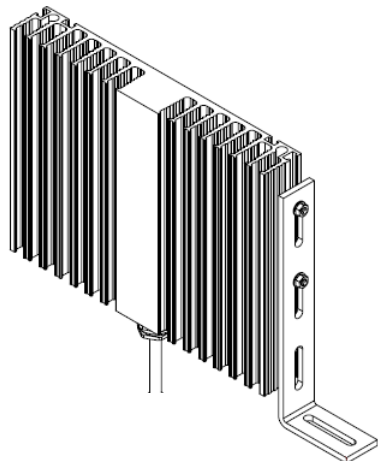
Ordering examples:

CP SLIMTHERM CLA 50 T3 TS20 24 Volt
CP SLIMTHERM CLA 125 T3 TS10 AM



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7 Dimensions



8 Electric wiring

8.1 CP SLIMTHERM ... with TS

