

# Touch-Safe Heater CS 060 Series (semiconductor)

50W to 150W



Low surface temperature

Quick mounting due to clip fixing

Double insulated (plastic)

Wide voltage range

Small size

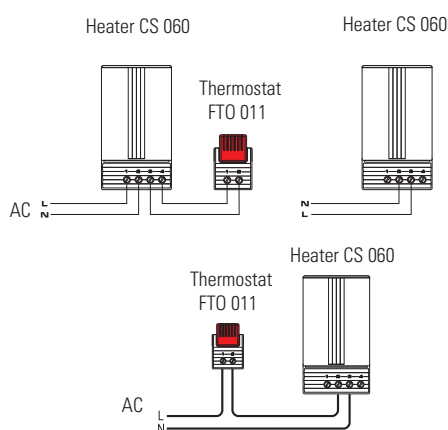
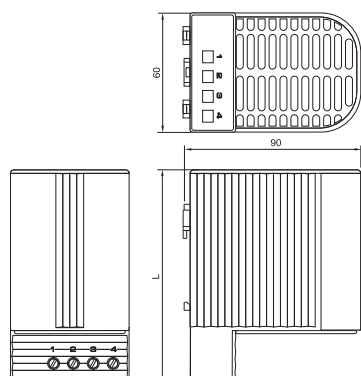
Touch-safe heater for the use in enclosures with electrical/electronic components. The design of the heater supports the natural convection which results in a high air-current of warm air. The surface temperatures on the accessible side surfaces of the housing are kept down as a result of the heater design. Our complete range of thermostats and hygrostats can directly be connected to the heater CS 060. This heater is also available in a version with plug-in thermostat requiring no additional wiring (CSF 060). The heaters are designed for permanent operation.



## Technical Data

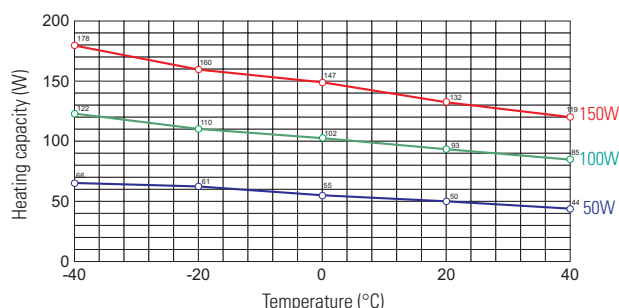
|   |  |
|---|--|
| <b>Operating voltage</b>                  | 120-240V AC/DC* (min. 110V, max. 265V)   |
| <b>Heating element</b>                    | PTC resistor - temperature limiting  |
| <b>Surface temperature</b>                | < 80°C (176°F), except upper protective grille   |
| <b>Connection</b>                         | 4-pole terminal 2,5mm <sup>2</sup> , torque 0.8Nm max.   |
| <b>Casing</b>                             | plastic according to UL94 V-0, black   |
| <b>Mounting</b>                           | clip for 35mm DIN rail, EN 60715   |
| <b>Fitting position</b>                   | vertical airflow (air outlet up, connection on bottom)   |
| <b>Operating / Storage temperature</b>    | -45 to +70°C (-49 to +158°F)   |
| <b>Operating / Storage humidity</b>       | max. 90 % RH (non-condensing)  |
| <b>Protection type / Protection class</b> | IP20 / II (double insulated)   |
| <b>Approvals</b>                          | VDE + UL File No. E150057 (according to UL 499, intended for the use within an enclosure in accordance with UL 508A) |
| <b>Note</b>                               | other voltages on request  |

\*Operating with voltages below 140V AC/DC reduces heating performance by approx. 10%.



Examples of connection

Heating capacity / Ambient temperature diagram CS 060



| Art. No.   | Heating capacity <sup>1)</sup> | Inrush current max. | Pre-fuse T (time-delay) | Air outlet temperature <sup>2)</sup> | Dimensions      | Weight (approx.) |
|------------|--------------------------------|---------------------|-------------------------|--------------------------------------|-----------------|------------------|
| 06000.0-00 | 50W                            | 2.5A                | 4A                      | +86°C (186.8°F)                      | 110 x 60 x 90mm | 0.3kg            |
| 06010.0-00 | 100W                           | 4.5A                | 8A                      | +120°C (248°F)                       | 110 x 60 x 90mm | 0.3kg            |
| 06020.0-00 | 150W                           | 8A                  | 8A                      | +145°C (293°F)                       | 150 x 60 x 90mm | 0.5kg            |

<sup>1)</sup> ambient temperature - see Heating capacity / Ambient temperature diagram; <sup>2)</sup> measured 50mm above protective grille;