

TOUCH-SAFE HEATER (SEMICONDUCTOR)

CSF 060 | 50W to 150W



- > Low surface temperature
- > Integrated thermostat
- > Quick mounting due to clip fixing
- > Double insulated (plastic)
- > Wide voltage range
- > Small size

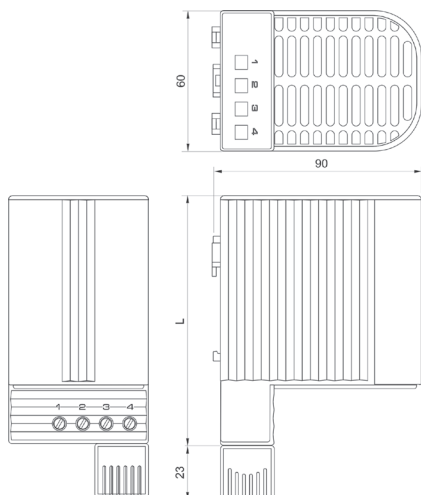
Touch-safe heater for the use in enclosures with electrical/electronic components. The design of the heater supports the natural convection which results in a high air-current of warm air. The surface temperatures on the accessible side surfaces of the housing are kept down as a result of the heater design. This model with plug-in thermostat does not require additional wiring. The heaters are designed for permanent operation. This heater is also available in a version without thermostat (CS 060).



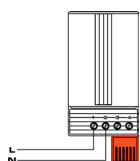
TECHNICAL DATA

Operating voltage	120 - 240VAC ¹ (min. 110V, max. 265V)
Heating element	PTC resistor - temperature limiting
Surface temperature	< +80°C (+176°F), except upper protective grille
Connection	2-pole terminal 2.5mm ² , torque 0.8Nm max.
Casing	plastic according to UL94 V-0, black
Mounting	clip for 35mm DIN rail, EN 60715
Fitting position	vertical airflow (air outlet up, connection on bottom)
Operating/Storage temperature	-40 to +70°C (-40 to +158°F) / -45 to +70°C (-49 to +158°F)
Operating/Storage humidity	max. 90% RH (non-condensing)
Protection type/Protection class	IP20 / II (double insulated)
Approvals	VDE, UL File No. E150057, EAC

¹ Operating with voltages below 140VAC reduces heating performance by approx. 10%.

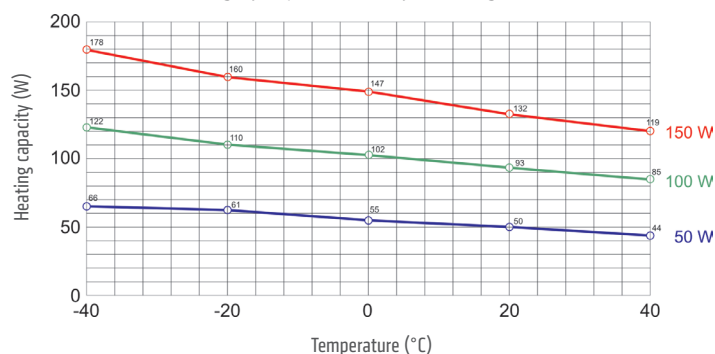


Heater CSF 060



Example of connection

Heating capacity / Ambient temperature diagram CSF 060



Art. No.	Heating capacity ²	Inrush current (max.)	Recommended pre-fuse T (time-delay)	Air outlet temperature ³	Switch-off temperature ⁴	Switch-on temperature ⁴	Dimensions	Weight (approx.)
06001.0-00	50W	2.5A	4.0A	+86°C (+186.8°F)	+15°C (+59°F)	+5°C (+41°F)	110 x 60 x 90mm	0.3kg
06002.0-00	50W	2.5A	4.0A	+86°C (+186.8°F)	+25°C (+77°F)	+15°C (+59°F)	110 x 60 x 90mm	0.3kg
06011.0-00	100W	4.5A	8.0A	+120°C (+248°F)	+15°C (+59°F)	+5°C (+41°F)	110 x 60 x 90mm	0.3kg
06012.0-00	100W	4.5A	8.0A	+120°C (+248°F)	+25°C (+77°F)	+15°C (+59°F)	110 x 60 x 90mm	0.3kg
06021.0-00	150W	8.0A	10.0A	+145°C (+293°F)	+15°C (+59°F)	+5°C (+41°F)	150 x 60 x 90mm	0.5kg
06022.0-00	150W	8.0A	10.0A	+145°C (+293°F)	+25°C (+77°F)	+15°C (+59°F)	150 x 60 x 90mm	0.5kg

² ambient temperature – see Heating capacity / Ambient temperature diagram; ³ measured 50mm above protective grille; ⁴ tolerance of ±5K

Note: Other switch-off and switch-on temperatures on request.