

OPTIONAL ACCESSORIES

CONTROL PANEL HEATER



TOUCH-SAFE PTC HEATER

CSF 060 | 50 W to 150 W



- > Low surface temperature
- > Wide voltage range
- > Integrated thermostat
- > Double insulated protection
- > Compact size
- > DIN rail mountable

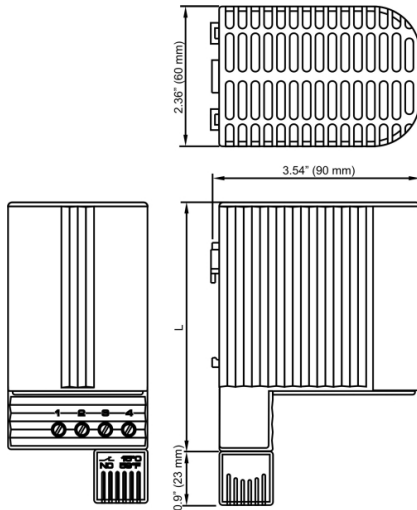
The CSF 060 is a touch-safe heater for use in enclosures. The design of the heater utilizes natural convection which results in a circulating current of warm air. The surface temperatures on the accessible side surfaces of the housing are minimized as a result of the heater design. This model with plug-in thermostat does not require additional wiring. The CSF 060 is also available in a version without thermostat (CS 060). These heaters are suitable for permanent operation.



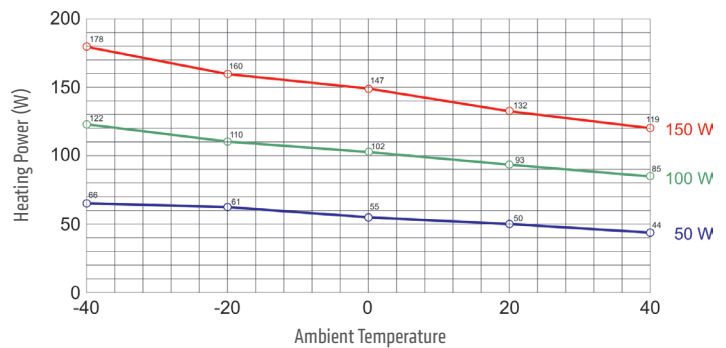
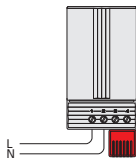
TECHNICAL DATA

Operating voltage ¹	AC 120 – 240 V (min. 110 V, max. 265 V)
Heating element	PTC resistor, temperature limiting
Surface temperature	< 176 °F (80 °C), except upper protective grill
Connection	4-pole terminal AWG 14 max (2.5 mm ²), torque 0.8 Nm max.
Housing	plastic, UL 94V-0, black
Mounting	clip for 35 mm DIN rail, EN 60715
Mounting position	vertical airflow (air outlet up, connection on bottom)
Operating / Storage temperature	-40 to +158 °F (-40 to +70 °C) / -49 to +158 °F (-45 to +70 °C)
Operating / Storage humidity	max. 90 % RH (non-condensing)
Protection class / Protection type	II (double insulated) / IP20
Approvals	UL File No. E150057, VDE, EAC

¹ Operating high voltage heaters below AC 140 V reduces heating performance by approx. 10%.



Wiring example
CSF 060 Heater



Part No.	Heating capacity ²	Max. current (inrush)	Recommended pre-fuse T (time-delay)	Air outlet temperature ³	Switch-off temperature ⁴	Switch-on temperature ⁴	Dimensions	Weight (approx.)
06001.0-00	50 W	2.5 A	4.0 A	187 °F (86 °C)	59 °F (15 °C)	41 °F (5 °C)	5.24 x 2.36 x 3.54" (133 x 60 x 90 mm)	10.8 oz. (305 g)
06002.0-00	50 W	2.5 A	4.0 A	187 °F (86 °C)	77 °F (25 °C)	59 °F (15 °C)	5.24 x 2.36 x 3.54" (133 x 60 x 90 mm)	10.8 oz. (305 g)
06011.0-00	100 W	4.5 A	8.0 A	248 °F (120 °C)	59 °F (15 °C)	41 °F (5 °C)	5.24 x 2.36 x 3.54" (133 x 60 x 90 mm)	11.2 oz. (320 g)
06012.0-00	100 W	4.5 A	8.0 A	248 °F (120 °C)	77 °F (25 °C)	59 °F (15 °C)	5.24 x 2.36 x 3.54" (133 x 60 x 90 mm)	11.2 oz. (320 g)
06021.0-00	150 W	8.0 A	10.0 A	293 °F (145 °C)	59 °F (15 °C)	41 °F (5 °C)	6.8 x 2.36 x 3.54" (173 x 60 x 90 mm)	15.9 oz. (450 g)
06022.0-00	150 W	8.0 A	10.0 A	293 °F (145 °C)	77 °F (25 °C)	59 °F (15 °C)	6.8 x 2.36 x 3.54" (173 x 60 x 90 mm)	15.9 oz. (450 g)

² see Heating Power / Ambient Temperature diagram; ³ measured 2" (50 mm) above protective grill; ⁴ tolerance of ±5 K;

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