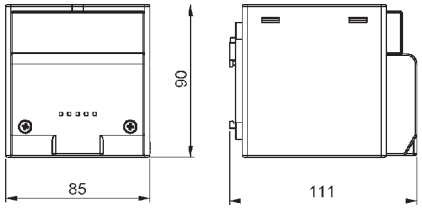
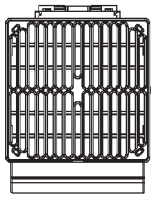
Compact semiconductor Fan Heater CSL 028 250W, 400W



- **Small, compact design**
- **Quiet in operation**
- **Dynamic heating up**
- **Clip or screw fixing**

Fan heater prevents formation of condensation and provides an evenly distributed interior air temperature in enclosures with electric/electronic components. The heater is connected using the internal terminal connectors The small size of the CSL 028 makes it ideal for use in enclosures where space is at a premium.





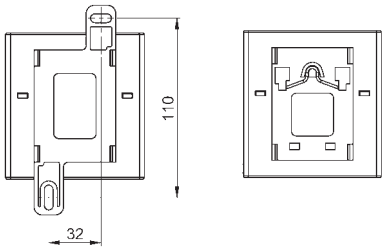
CE RoHS 2002/95/EC compliant

Technical Data

Heating element	PTC heating element
Surface temperature	250W: max. 50°C (122°F), except upper protective grille
	400W: max. 65°C (149°F), except upper protective grille
	at 20°C (68°F) ambient temperature
Axial fan, ball bearing	air flow 45m³/h at 230VAC, air flow 54m³/h at 120VAC
	free flow, service life 40,000h at 40°C
Connection	2-pole clamp max. 2.5mm² with strain relief,
	clamping screw torque 0.8Nm max.
Casing	plastic according to UL94-0, black
Mounting	clip for 35 mm DIN rail, EN 60715 or screw fixing (Ø 5.3mm)
Fitting position	vertical
Weight	approx. 0.5kg
Operating / Storage temperature	-45 to +70°C (-49 to +158°F)
Protection type / Protection class	IP20 / II (double insulated)
Note	other voltages on request

View: back side

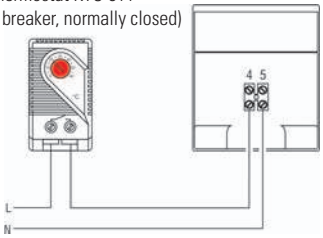
Screw fixing Clip fixing



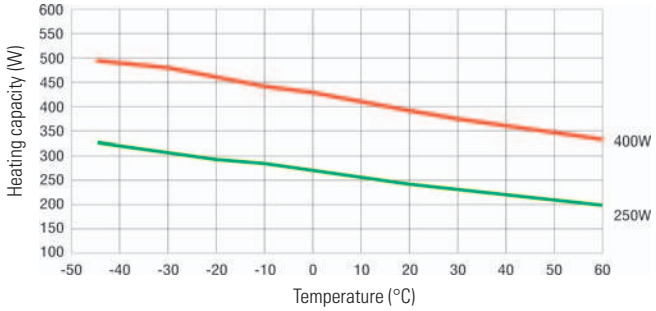
Example of connection

Thermostat KTO 011
(contact breaker, normally closed)

Fan Heater CSL 028



Heating capacity / Ambient temperature diagram CSL 028



Art. No.	Operating voltage	Heating capacity*	Inrush current max.	Dimensions	Mounting	Approvals
02811.0-00	230VAC, 50/60Hz	250W	9A	111 x 85 x 90mm	Clip fixing	VDE; (UL submitted)
02811.0-01	230VAC, 50/60Hz	250W	9A	111 x 85 x 129mm	Screw fixing	VDE; (UL submitted)
02811.9-00	120VAC, 50/60Hz	250W	6A	111 x 85 x 90mm	Clip fixing	UL submitted
02811.9-01	120VAC, 50/60Hz	250W	6A	111 x 85 x 129mm	Screw fixing	UL submitted
02810.0-00	230VAC, 50/60Hz	400W	15A	111 x 85 x 90mm	Clip fixing	VDE; (UL submitted)
02810.0-01	230VAC, 50/60Hz	400W	15A	111 x 85 x 129mm	Screw fixing	VDE; (UL submitted)
02810.9-00	120VAC, 50/60Hz	400W	9A	111 x 85 x 90mm	Clip fixing	UL submitted
02810.9-01	120VAC, 50/60Hz	400W	9A	111 x 85 x 129mm	Screw fixing	UL submitted

*at 20°C (68°F) ambient temperature

Specifications are subject to change without notice. Errors and omissions excepted. Suitability of this product for its intended use and any associated risks must be determined by the end customer/ buyer in its final application. 28.07.2008