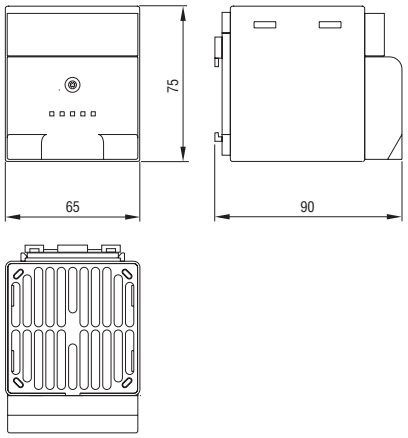
Small semiconductor Fan Heater CS 028 150W



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

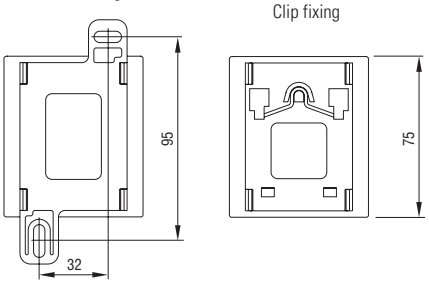
Fan heater prevents formation of condensation and provides an evenly distributed interior air temperature in enclosures with electric/electronic components. The heater is connected using the internal terminal connectors The CS 028's small size make it ideal for use in enclosures where space is at a premium.



View: back side

Screw fixing

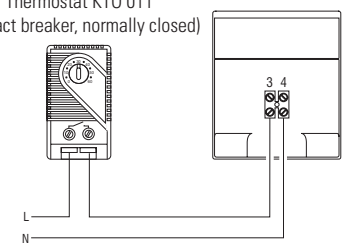
Clip fixing



Example of connection

Thermostat KTO 011
(contact breaker, normally closed)

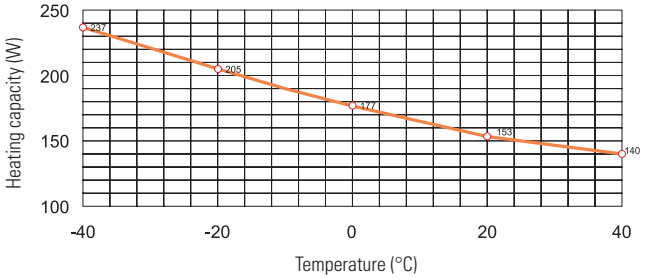
Fan Heater CS 028



Technical Data

Heating element	PTC heating element
Inrush current	max. 12 A at 230VAC, 6 A at 120VAC
Surface temperature	max. 50°C at casing; 100°C at upper protective grille
	at 20°C (68°F) ambient temperature
Axial fan, ball bearing	air flow 13.8 m³/h, free flow (service life 40,000h at 40°C)
Connection	2-pole clamp max. 2.5mm², 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 5.3 mm)
Fitting position	vertical
Weight	approx. 0.3kg
Operating / Storage temperature	-45 to +70°C (-49 to +158°F)
Protection type / Protection class	IP20 / II (double insulated)
Note	other voltages on request

Heating capacity / Ambient temperature diagram
CS 028 (150W)



Art. No.	Operating voltage	Heating capacity*	Dimensions	Mounting	Approvals
02800.0-00	230VAC, 50/60Hz	150W	87 x 65 x 75mm	Clip fixing	VDE; (UL submitted)
02800.0-01	230VAC, 50/60Hz	150W	87 x 65 x 114mm	Screw fixing	VDE; (UL submitted)
02800.9-00	120VAC, 50/60Hz	150W	87 x 65 x 75mm	Clip fixing	UL submitted
02800.9-01	120VAC, 50/60Hz	150W	87 x 65 x 114mm	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