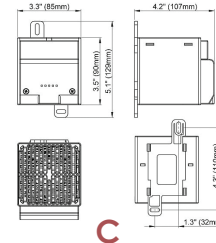
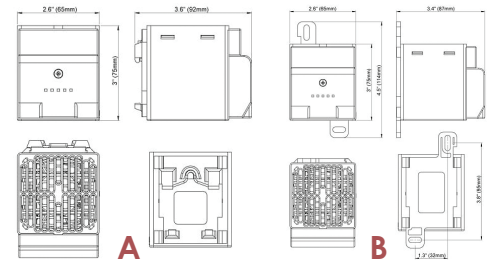


# CS 028 | CSL 028

## FAN HEATERS | 150 - 400 W TOUCH-SAFE PTC FAN HEATER

The CS 028 / CSL 028 fan heaters prevent formation of condensation and provide an evenly distributed interior air temperature in enclosures. The heaters are connected using the internal terminal connectors. The surface temperatures on the accessible side surfaces of the housing are minimized as a result of the heater design. The small size of the CS 028 / CSL 028 heaters make them ideal for use in enclosures where space is at a premium.

<b>Heating Element</b>	PTC resistor - temperature limiting
<b>Axial Fan, Ball Bearing</b>	service life 40,000 h at 104 °F (40 °C)
<b>Air Flow, Free Blowing</b>	CS 028: 8 cfm (13.8 m³/h) CSL 028: 32 cfm (54 m³/h) @ AC 120 V 26 cfm (45 m³/h) @ AC 230 V
<b>Connection</b>	2-pole terminal AWG 14 max. (2.5 mm²) with strain relief, torque 0.8 Nm max.
<b>Housing</b>	plastic, UL 94V-0, black
<b>Mounting</b>	screw mount (Ø 2.11"/5.3 mm) or clip for 35 mm DIN rail, EN 60715
<b>Mounting Position</b>	vertical
<b>Operating / Storage Temp.</b>	-49 to +158 °F (-45 to +70 °C)
<b>Operating / Storage Humidity</b>	max. 90 %RH (non-condensing)
<b>Protection Class / Type</b>	II (double insulated) / IP20
<b>Operating / Storage Temperature</b>	-49 to +158 °F (-45 to +70 °C)
<b>Protection Class / Type</b>	I (grounded) / IP20



*Dimensioned Drawings.*

*A) CS 028 with DIN clip.*

*B) CS 028 with screw mount tabs.*

*C) CSL 028 with screw mount tabs.*

- Compact size
- Quiet operation
- Heating power adjusts to ambient temperature
- DIN rail or screw mount available



Part No. Din Mount	Part No. Screw Mount	Operating Voltage	Heating Capacity*	Max. Current (Inrush)	Rec. Pre-Fuse T (Time-Delay)	Weight	Approvals
02800.9-00	02800.9-01	AC 120 V, 50/60 Hz	150 W	1.0 A	10.0 A	10.6 oz.	UL File No. E234324 - EAC
02800.0-00	02800.0-01	AC 230 V, 50/60 Hz	150 W	1.25 A	10.0 A	10.6 oz.	UL File No. E234324 VDE EAC

**CS 028**

Part No. Din Mount	Part No. Screw Mount	Operating Voltage	Heating Capacity*	Max. Current (Inrush)	Rec. Pre-Fuse T (Time-Delay)	Weight	Approvals
02811.9-00	02811.9-01	AC 120 V, 50/60 Hz	250 W	6.0 A	10.0 A	17.6 oz.	UL File No. E234324 - EAC
02810.9-00	02810.9-01	AC 120 V, 50/60 Hz	400 W	9.0 A	10.0 A	17.6 oz.	UL File No. E234324 - EAC
02811.0-00	02811.0-01	AC 230 V, 50/60 Hz	250 W	9.0 A	10.0 A	17.6 oz.	UL File No. E234324 VDE EAC
02810.0-00	02810.0-01	AC 230 V, 50/60 Hz	400 W	15.0 A	16.0 A	17.6 oz.	UL File No. E234324 VDE EAC

**CSL 028**

\*at 68 °F (20 °C) ambient temperature