



Small PTC Heater HGK 047

Compact heater in PTC technology

- Maintains minimum operating temperatures in enclosures
- Helps to prevent failure of electronic components caused by condensation and corrosion

Heating power adjusts to ambient temperature

DIN rail mountable

UL, VDE and CE



Technical Data HGK 047		Part No.	Voltage	Power ¹⁾	Max. Amps ²⁾	Length	VDE	UL
Voltage/heating power:	See table	04700.0-00	140-250 VAC	10W	0.5A	2.0" (50 mm)	●	
Heating element:	PTC resistor, self regulating	04701.0-00	140-250 VAC	20W	1.0A	2.4" (60 mm)	●	
Heat sink:	Anodized extruded aluminum	04702.0-00	140-250 VAC	30W	1.0A	2.8" (70 mm)	●	
Protection class:	I (grounded)	04700.9-00	110-120 VAC	10W	1.5A	2.0" (50 mm)		●
Protection type:	IP 54	04701.9-00	110-120 VAC	20W	1.8A	2.8" (70 mm)		●
Connection:	3 x AWG 20 (0.5 mm ²), 12" (300 mm) length	04702.9-00	110-120 VAC	30W	2.4A	4.0" (100 mm)		●
Mounting:	Clip for 35 mm DIN rail (EN 50022)							
Agency approvals:	VDE, UL							

¹⁾ at 68°F (20°C) ambient temperature. ²⁾ Inrush ³⁾ approx. weight: 4 oz (120g)

Applications:

Electrical & Electronic enclosures
Telecommunications systems
Display panels
Personnel booths
Automatic teller machines (ATM's)
Access & Parking control systems
Ticket dispensers

Determining the required heater size:

$$P_H = (A \times \Delta T \times k) - P_V$$

P_H = Required heating power for your application in Watts (W)

P_V = Heating power generated by existing components (e.g. a transformer) in Watts (W)

A = Exposed enclosure surface area in square meters (m²)

ΔT = Temperature differential between the desired minimum interior temperature and the Lowest possible external temperature of the enclosure in Kelvin (K), 1.8°F = 1°C = 1K

k = Heat transmission coefficient of the enclosure material used:

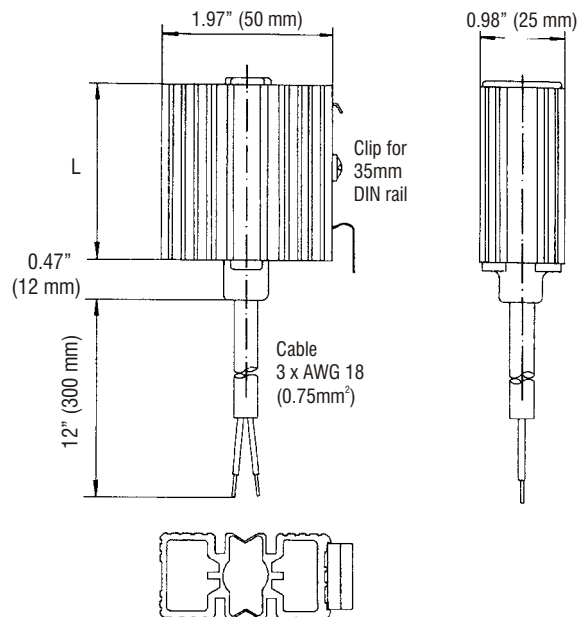
Painted steel: 5.5W/m²K

Stainless steel: 3.7W/m²K

Aluminum: 12W/m²K

Polyester/Plastic: 3.5W/m²K

For outdoor applications it is recommended to double the heating power.



HGK047-11-05/US

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

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