PTC Heater 15-150W HG 140

- 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
- Push connectors for quick and easy wiring
- DIN rail mountable

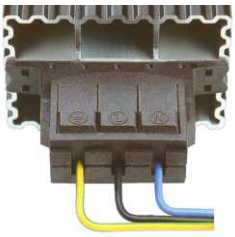
Technical Data HG 140	
Operating voltage:	AC/DC 110 - 250 V (also available in 12 - 48 VDC)
Heating element:	PTC resistor, self-regulating
Heating body:	Anodized extruded aluminum
Protection class:	I, test voltage 1600 V
Protection type:	IP 20
Connection:	Push-type terminals for stranded and solid wire 3 x AWG 20-16 (0.5-1.5 mm²)
Mounting:	Clip for 35 mm DIN rail (EN 50022)
Agency approvals:	UL, VDE

Part. No.	Power [1]	Max. Current [2]	L	Weight
14000.0-00	15W	1.5A	2.6″/65 mm	0.66 lbs (0.3 kg)
14001.0-00	30W	3.0A	2.6″/65 mm	0.66 lbs (0.3 kg)
14003.0-00	45W	3.5A	2.6″/65 mm	0.66 lbs (0.3 kg)
14005.0-00	60W	2.5A	5.5″/140 mm	1.10 lbs (0.5 kg)
14006.0-00	75W	4.0A	5.5″/140 mm	1.10 lbs (0.5 kg)
14007.0-00	100W	4.5A	5.5″/140 mm	1.10 lbs (0.5 kg)
14008.0-00	150W	9.0A	8.7″/220 mm	1.76 lbs (0.8 kg)

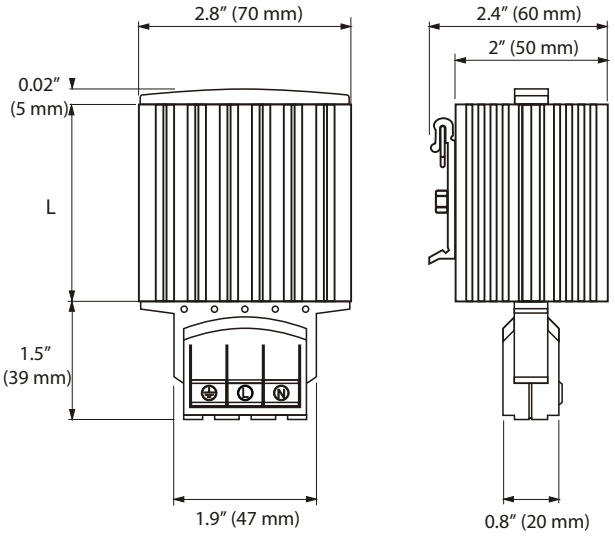
[1] at 68°F (20°C) ambient temperature. [2] Inrush current

Applications:

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



Easy wiring by using push-type terminals



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 (m^2)

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.