



Electronic Enclosure Heaters

Natural Convection

NCH-11000 Series



- ✓ Dual Voltage 100 to 240 Vac
- ✓ UL94V-0 High Temperature Plastic Housing
- ✓ Touch Safe Heater; Does Not Exceed 74°C (165°F) for Low Temperature Version/ 105°C (221°F) for High Temperature Version
- ✓ Optimized for Low Inrush Current
- ✓ Self Regulating, Highest Power at Low Ambient Temperature
- ✓ Easy Connection, Finger Guard with Integrated Terminal Block
- ✓ Fixing 35 mm DIN Rail Mount
- ✓ RoHS Compliant (EU Directive 2002/95/EC)

The NCH-11000 Series range of natural convection heaters consists of a ceramic type heating element, with electrically insulated and corrosion resistant (anodized) heat-sink fins. A UL94V-0 heater guard in high temperature plastic is provided to protect from accidental contact with the element.

Elements are self-regulating giving the highest power at a low ambient temperature. There are four primary variants giving different powers. Additionally heaters



Both models shown smaller than actual size.

are built as low and high temperature versions. Heaters NCH-11000 and NCH-11100 are low temperature versions; the plastic heater guard does not exceed 74°C (165°F). Heaters NCH-11200 and NCH-11300 are hotter allowing higher power output; however the plastic heater guard does not exceed a safe 105°C (221°F).

The heating element conforms to IP20. For ease of installation the product is supplied with a factory fitted stainless steel 35 mm DIN-rail mounting clip. Electrical connection is via a terminal block which is integrated with the heater guard. All elements are optimized for low inrush current across the permissible voltage range.

Specifications

Model No.	NCH-11000	NCH-11100	NCH-11200	NCH-11300
Nominal Power Output at 10°C (50°F)	20W	30W	40W	65W
Typical Peak Inrush Current (Arms) 230V/115V	0.6/0.8	1.8/2.2	1.6/2.0	5.5/5.5
Maximum Body Temperature (30°C Ambient)	74°C (165°F)		105°C (221°F)	
Electrical Protection Class	II			
Ingress Protection (EN60529)	IP20			
Operating Temperature Range	-30 to 70°C (-22 to 158°F)			
Storage Temperature Range	-40 to 70°C (-40 to 158°F)			
Nominal Input Voltage	100 to 240 Vac			
Nominal Input Frequency, Hz	50 to 60			
Dimensions (Cross Section), mm (inch)	35.5 x 57 (1.4 x 2.24)			
Dimensions (Length), mm (inch)	97.5 (3.84)	157.5 (6.2)	97.5 (3.84)	157.5 (6.2)
Connector Block (AWG)	12 to 24			
Weight: g (oz)	100 (3.53)	160 (5.64)	100 (3.53)	160 (5.64)

Note: All data are for unit operated in vertical orientation.

To Order	
Model No.	Description
NCH-11000	Low temperature version 74°C (165°F) maximum, 20 W, 100 to 240V
NCH-11100	Low temperature version 74°C (165°F) maximum, 30 W, 100 to 240V
NCH-11200	Higher temperature version 105°C (221°F) maximum, 40 W, 100 to 240V
NCH-11300	Higher temperature version 105°C (221°F) maximum, 65 W, 100 to 240V

Comes complete with 35 mm DIN rail mounting clip and operator's manual.
Ordering Example: NCH-11000, natural convection heater, 20 W, 100 to 240 Vac.