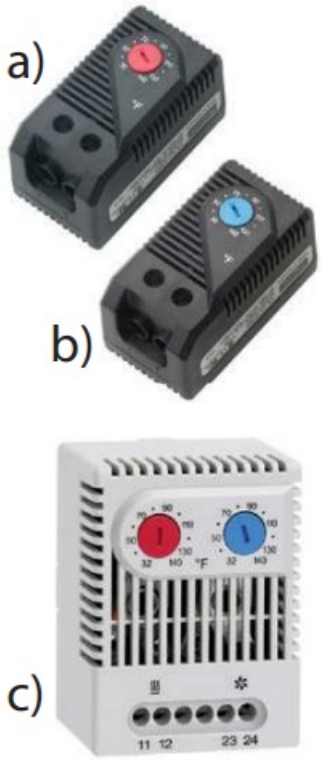
nVent HOFFMAN 87920846 Temperature Controls Instruction Manual

87920846 Temperature Controls Instruction Manual



Temperature Controls

Contents

87920846 Temperature Controls

WARNING

- The temperature control should only be installed by qualified technicians in accordance with the respective national electrical codes.
- The safety and protection against incidental contact is to be ensured through proper installation.
- The technical specifications (voltage and current) as stated on the product must not be exceeded!

Versions:
a. Normally closed contact (switching contact opens at rising temperature)
b. Normally open contact (switching contact closes at rising temperature)
c. Combination (combination of a) and b))

Applications:

The temperature controls are used to regulate heating equipment, cooling equipment, filter fans and heat exchangers. In addition, they can also be used as switching contacts for signal devices used as low– or high temperature alarms.

Installation guidelines:

The temperature controls are designed to measure the temperature in enclosures. When used in heating applications, they should be installed in the upper area of the enclosure as far away as possible from heaters or other eat–generating components. When used in cooling appl ications, they should be installed at the bottom of the enclosure as far away as possible from the cooling device. Clip–mounting onto 35 mm DIN rails according to EN50022 is standard.The ventilation openings of the temperature control should not be covered at any time.Operating temperature range: -45 °C to 80 °C (-49 °F to 176 °F)

Important: as operating conditions vary widely, safe operation of the temperature control is to be checked in the final application.

Setting recommendations:

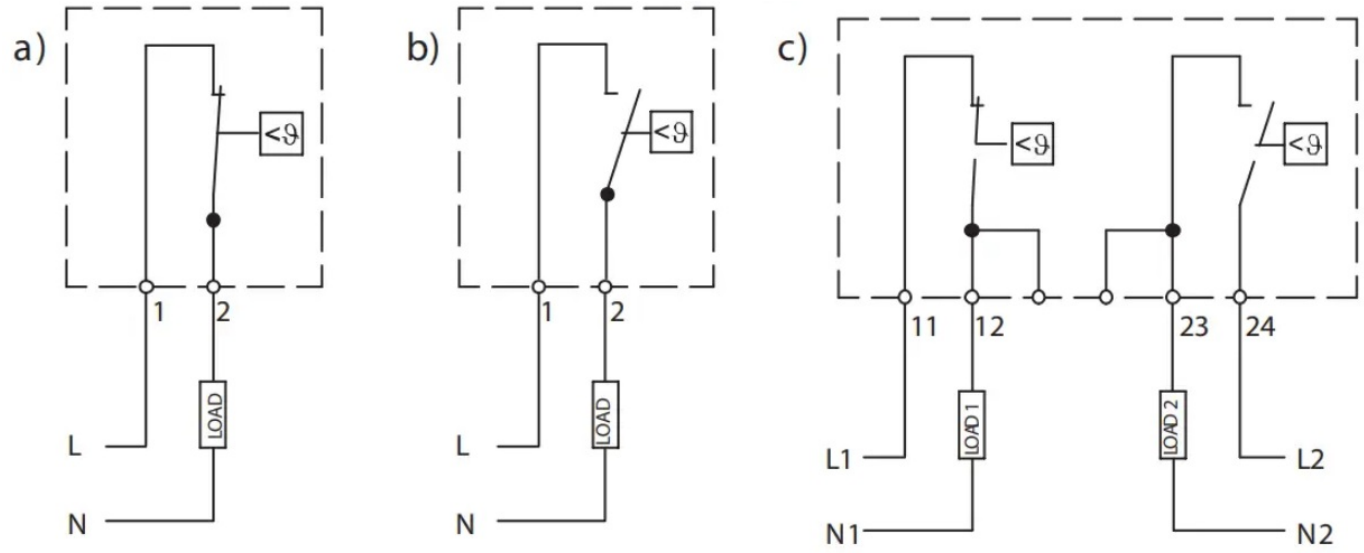
The hysteresis (switching difference) of the temperature control should be taken into account:

a), b) and c): 7 K± 4 K (Kelvin) In order to determine the actual set point of the normally closed contact, the maximum rated hysteresis should be added to the required minimum operating temperature: Example for a):

required minimum temperature in enclosure: 5 C (41 F)

Hysteresis of temperature control: + 11 K (= 7 K ± 4 K)

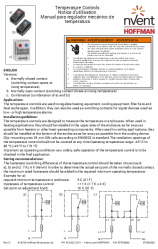
Set point on adjustment knob: 16 C (61 F)



PH 763 422 2211 • nVent.com/HOFFMAN

87920845

Documents / Resources

	nVent HOFFMAN 87920846 Temperature Controls [pdf] Instruction Manual 87920846, 87920846 Temperature Controls, Temperature Controls

References

- We connect and protect | nVent