

Monitoring Relays

3RN1 Thermistor Motor Protection

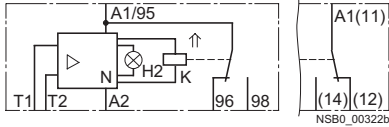
For PTC sensors

Schematics

Connection diagrams

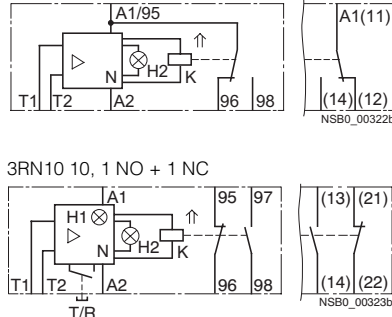
**Illustrated with
control voltage
applied**

3RN10 00, 1 CO

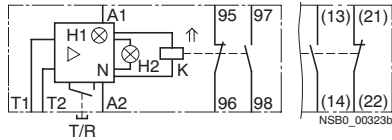


**Illustrated with
control voltage
not applied**

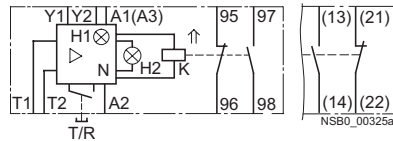
3RN10 10, 1 NO + 1 NC



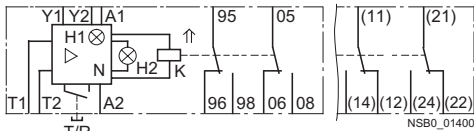
3RN10 11¹⁾, 1 NO + 1 NC



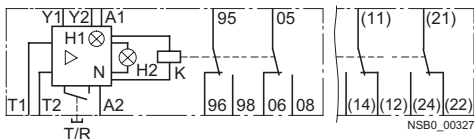
3RN10 12¹⁾, 1 NO + 1 NC



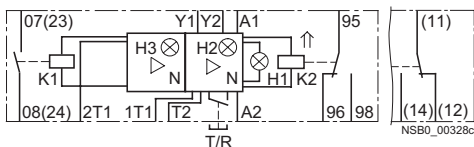
3RN10 13-...0 (monostable)



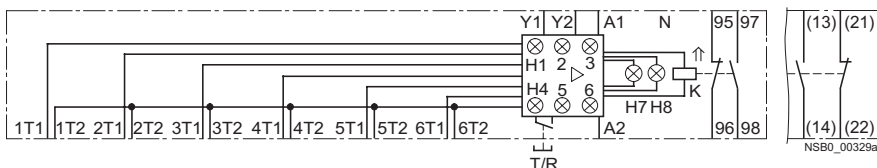
3RN10 13-...1 (bistable)



3RN10 22

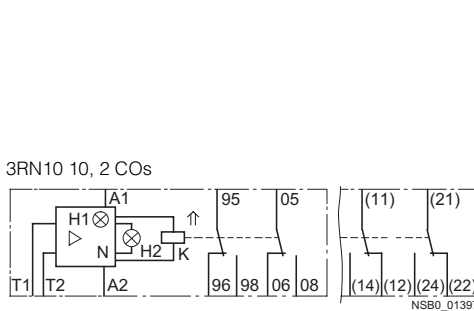


3RN10 62

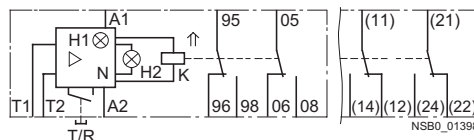


**Illustrated with
control voltage
not applied**

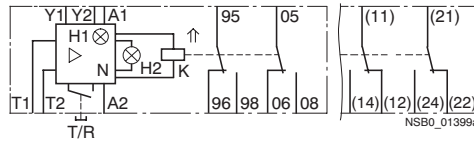
3RN10 10, 2 COs



3RN10 11, 2 COs



3RN10 12, 2 COs



General item codes

A1, A2, A3 Connections of the control voltage
N Amplifier
T/R TEST/RESET button
Y1, Y2 Connections for remote RESET (jumped = Auto-RESET)
↑ The double arrow indicates an operating state which deviates from the standard representation of the contact according to DIN 40900, Part 7 (Here: Position of the contacts when control voltage is applied to terminals A1 and A2)

Item codes for 3RN10

H1 "READY" LED
H2 "TRIPPED" LED
K Output relay
T1, T2 Connections of the sensor loop

Item codes for 3RN10 22

H1 "READY" LED
H2 "TRIPPED" LED
H3 "ALARM" LED
K1, K2 Output relay
1T1 and T2 Connections of the sensor loop
2T1 and T2 Connections of the sensor loop

⚠ Important!

Close unconnected sensor circuits.

Item codes for 3RN10 62

H1 to H6 LED for the tripped sensor loop
H7 "READY" LED
H8 "TRIPPED" LED
K Output relay
1T1, 1T2 Connections of the 1st sensor loop
6T1, 6T2 Connections of the 6th sensor loop

⚠ Important!

Close unconnected sensor circuits.

¹⁾ For units with combination voltages 230 V/110 V AC (3RN10 11-CK00 and 3RN10 12-CK00) the following applies: A1 and A2: 230 V AC, A3 and A2: 110 V AC.