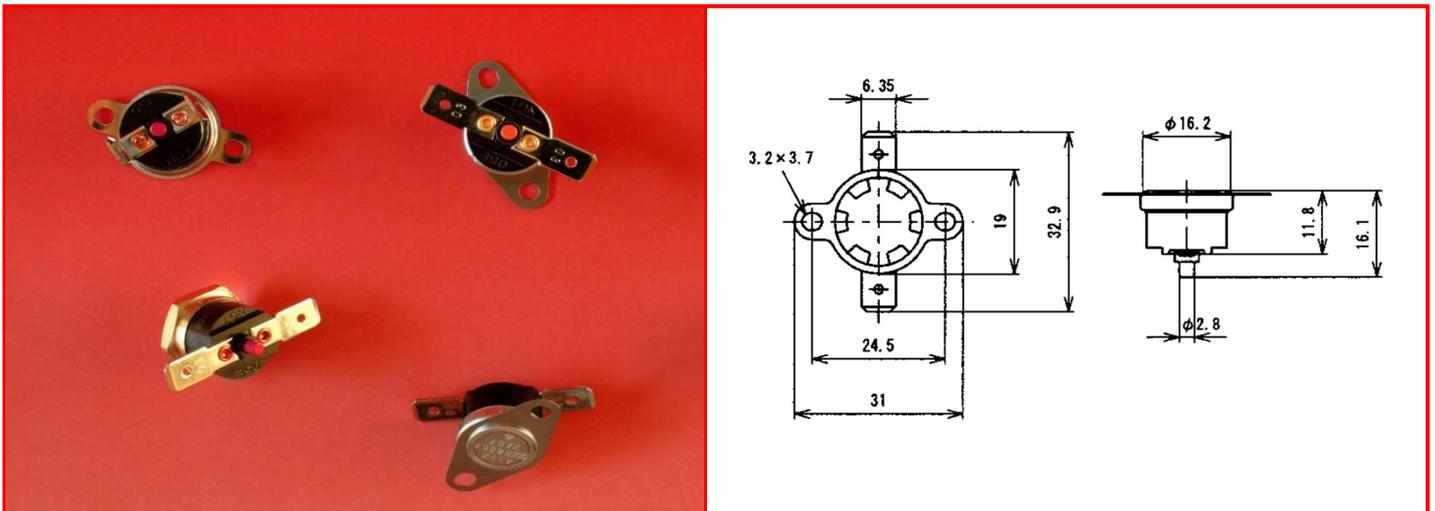


### TEMPERATURE CONTROLS TYPE 05EN



### TECHNICAL DATA

| version                                                | 05EN                                                                                                                                                       |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| contact type                                           | NC = normally close                                                                                                                                        |
| insulation                                             | Duroplast case                                                                                                                                             |
| nominal switching temperature                          | 40°C until 150°C                                                                                                                                           |
| max. ambient temperature                               | 24 h at 150°C                                                                                                                                              |
| standard-tolerance range                               | NST < 100°C = ±3K NST > 100°C = ±4K                                                                                                                        |
| standard reset temperature<br>(special reset possible) | manual reset after cooling down                                                                                                                            |
| rated voltage $U_N$ 50/60Hz (VDE/IEC)                  | 250 VAC                                                                                                                                                    |
| rated current with $U_N$ ohmic $\cos \varphi = 1,0$    | 15 A at 120 VAC with 6.000 switching cycles (UL)<br>15 A at 125 VAC with 6.000 switching cycles (CSA)<br>16 A at 250 VAC with 3.000 switching cycles (VDE) |
| approvals                                              | VDE, UL, CSA                                                                                                                                               |
| standard connection                                    | terminal 6,3 x 0,8 mm                                                                                                                                      |
| high voltage insulation                                | 1,8 kV                                                                                                                                                     |
| degree of protection                                   | IP00                                                                                                                                                       |
| contact resistance (MIL-Standard R5757)                | <30mΩ                                                                                                                                                      |
| vibration proof (at 10...60Hz)                         | 98 m/s <sup>2</sup> ≈ 10G                                                                                                                                  |

## TEMPERATUR CONTROLS WITH MANUAL RESET

### Benefits & Advantages

The outstanding quality level of our Temperature Controls satisfies highest demands for safety and reliability. They are provided with a patented, fully developed and reliable switching device system.

|                                     |                                                                                                                      |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Best geometric design</b>        | <b>½" standard-size</b>                                                                                              |
| <b>Save, reliable &amp; durable</b> | <b>100% tests while production process</b>                                                                           |
| <b>Temperature sensitive</b>        | <b>reproducible Switching-Temperature induced by mechanical unstressed and electrically unloaded bimetallic disk</b> |
| <b>Fast reaction</b>                | <b>excellent thermal coupling induced by an ideal placed bimetallic disk</b>                                         |
| <b>Flexible</b>                     | <b>many terminals and mountings are available</b>                                                                    |

### Functions & Types

#### Bimetal switch

After reaching its factory-adjusted Nominal Switching Temperature (NST) the bimetal disc suddenly turns over from its stable initial position into a stable end position and thereby activates the switching device.

#### Normally closed (NC)

Contacts open and switch off the supply ⇒ direct disconnection

#### Resetting

After the temperature is cooling down the controller is ready to reset when pushing the manual reset-stick or reset-button down. So the switching device suddenly snaps back into its initial position. An automatic reset higher than -40°C is impossible.

### Technical Data

The listed specifications and information are based on tests and test series. They are of a standard nature and therefore deviations may occur in connection with specific applications. The suitability for a specific application must be individually tested by the user. Please contact us for any advice and support.

### Configuration with our article number

Sample 1 is for a 05EN NC-type, open at 100°C ±4K with terminal 6,3 x 0,8 mm and flexible mounting bracket

| 1.count   | 2.-4. count          | 5. count | 6.-8. count | 9. count | 10.-11. count | 12. count | specials |
|-----------|----------------------|----------|-------------|----------|---------------|-----------|----------|
| A=NC-type | reaction temperature |          | type        | config.  | terminal      | mounting  |          |
| <b>A</b>  | <b>100</b>           | <b>-</b> | <b>05EN</b> | <b>1</b> | <b>03</b>     | <b>4</b>  |          |

The manufacturing and production of our Thermostats is **DIN ISO 9001 certified**.  
By maintaining the current RoHS-conformity the products correspond also to the **WEEE 2012/19/EU**.

Our friendly team would give you detailed information for all our products. Of course, we want to help you, to find the best solution for your application. Please call us for further information.

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