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## SynTemp® S01/S02 or S06/S08

Series S01 or S06 thermal cut-offs are moulded, permanently operating bimetal release switches which interrupt the current flow once the nominal temperature has been reached (normally closed contact). Closing combination also possible (S02 or S08).

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### Attributes

Permanent operation with immediate reaction once the switching temperature has been reached is ensured due to the unique free-moving and self-aligning construction of the bimetal disc in the thermal cut-off. The thermal cut-offs are available as a single component and in a twin or triplet version.

### Further advantages due to the bimetal perforated discs:

- excellent long-term stability
- improved space utilisation
- high mechanical strength
- excellent long-term stability

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### Application

The S01 and S06 thermal cut-offs are used in electric motors and transformers.

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### Standards

VDE EN 60 730-2-9,

UL/CSA 2111, File Nr. E54236

ENEC acc. to EN 60730

RoHS compliant acc. to 2011/EC

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### Delivery forms

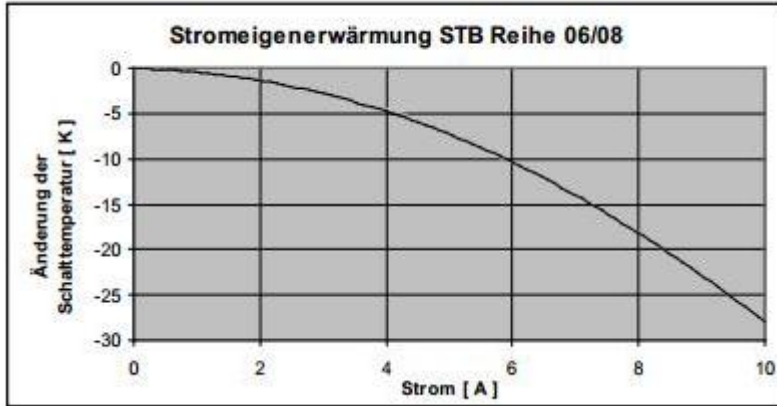
Nominal switching temperature in 5°C-steps of 60 to 200°C as standard, further temperatures on request.

Version: 01 available with (S01) or without (C01) insulation cap out of Mylar® / Nomex®, Epoxi resin impregnated or bare.

Version: 06 available with (S06) or without (C06) insulation cap, basically Epoxi resin impregnated.

Standard cable length 300 mm, other lengths on request.

## NST-Diagramm



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Updated 05/18

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| Switch properties                   | Unit of measure | S01/S02                   | S06/S08                   |
|-------------------------------------|-----------------|---------------------------|---------------------------|
| Switch type                         |                 | opening / closing contact | opening / closing contact |
| Nominal switching temperatures      | °C              | 60- 200                   | 70-200                    |
| Tolerance                           | mm              | ± 5                       | ±5                        |
| Reverse switch temperature          |                 | Depending on NST          | Depending on NST          |
| Total bouncing time                 | ms              | <1                        | <1                        |
| Operating voltage AC/DC             | V               | up to 500 / 28            | up to 500 / 28            |
| Rated voltage                       | V               | 250 (VDE) / 277 (UL)      | 250 (VDE) / 277 (UL)      |
| Rated current AC cos φ=0.4          | A               | 1.8 / 10,000 cycles       | 25 / 2,000 cycles         |
| Rated current AC cos φ=0.6          | A               | 1.6 / 10,000 cycles       | 6.3 /10,000 cycles        |
| Rated current AC cos φ=1.0          | A               | 2.5 / 10,000 cycles       | 10 / 10,000 cycles        |
| Max. switching current AC cos φ=0.4 | A               | 7.2 / 1,000 cycles        |                           |
| Max. switching current AC cos φ=1.0 | A               | 6.3 / 3,000 cycles        | 25 / 2,000 cycles         |

| Mechanical              | Unit of measure | S01/S02 | S06/S08 |
|-------------------------|-----------------|---------|---------|
| Contact resistance      | mΩ              | <50     | <50     |
| High-voltage resistance | kV              | 2       | 2       |

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| Mechanical   | Unit of measure | S01/S02       | S06/S08       |
|--|-----------------|---------------|---------------|
| Standard connection lead wire                                    | mm <sup>2</sup> | 0.25 / AWG 22 | 0.75 / AWG 18 |
| For devices in protection class                                  |                 | I + II        | I + II        |
| Diameter (with/without insulation cap)                           | mm              | 9.4           | 9.4           |
| Installation height of the housing (with/without insulation cap) | mm              | from 4.7      | from 6.7      |
| Length of insulation cap   | mm              | 15            | 16            |
| Pressure resistance of the housing                               | N               | 450           | 600           |

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