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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

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## Delivery forms

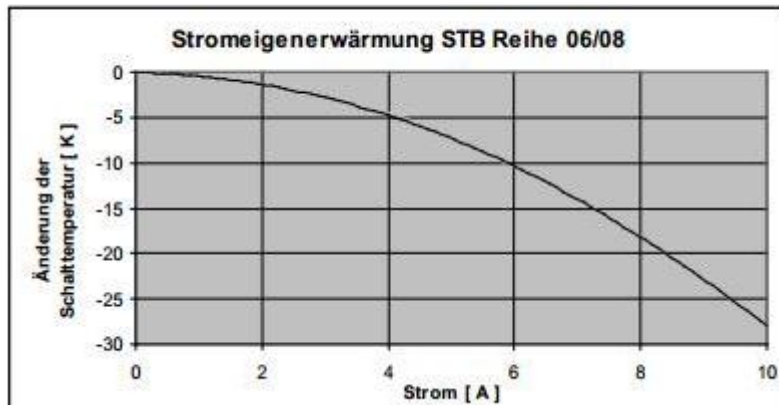
Nominal switching temperature in 5°C-steps of 60 to 200°C as standard, further temperatures on request.

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

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

Standard cable length 300 mm, other lengths on request.

## NST-diagram



[Translate to English:]

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
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 $\varphi$ =0.6	A	1.6 / 10,000 cycles	6.3 / 10,000 cycles
Rated current AC cos $\varphi$ =1.0	A	2.5 / 10,000 cycles	10 / 10,000 cycles
Max. switching current AC cos $\varphi$ =1.0	A	25 / 100 cycles	25 / 2,000 cycles
Tolerance	°C	± 5	± 5

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

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Mechanical	Unit of measure	S01/S02	S06/S08
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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