SynFlex Elektro GmbH
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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).

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

Application

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

Standards

VDE EN 60 730-2-9,
UL/CSA 2111, File Nr. E54236
ENEC acc. to EN 60730

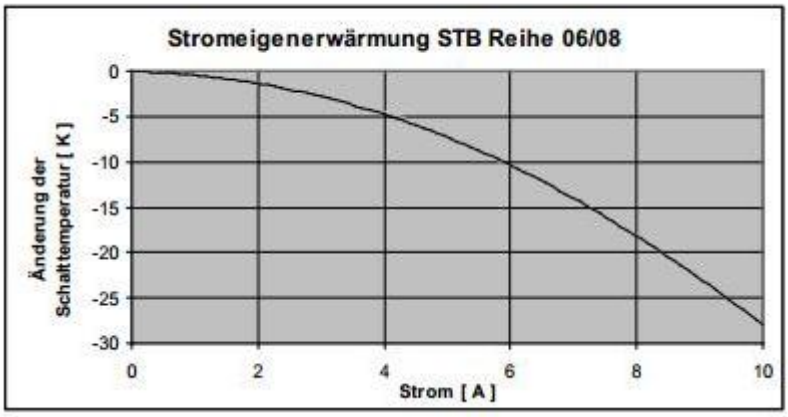
Delivery forms

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.

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NST-diagram



[Translate to Englisch:]

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Switch properties	Unit of measure	S01	S02	S06	S08
Switch type		Opening contact	Closing contact	Opening contact	Closing contact
Nominal switching temperatures	°C	60-200	60-200	70-200	70-180
Tolerance	K	±2.5 / ±5	±5	±5	±5
Reverse switch temperature		Depending on NST	Depending on NST	Depending on NST	Depending on NST
Total bouncing time	ms	<1	<1	<1	<1
Operating voltage AC/DC	V	up to 500 AC / 14 DC	up to 500 AC	up to 500 AC/28 DC	up to 500 AC
Rated voltage AC	V	250 (VDE)/277 (UL)	250 (VDE)/277 (UL)	250 (VDE)/277 (UL)	250 (VDE)/277 (UL)
Rated current AC cos φ=0,4	A	1.8 / 10,000 cycles	no specification	no specification	no specification
Rated current AC cos φ=0.6	A	1.6 / 10,000 cycles	1.6 / 10,000 cycles	6.3 / 10,000 cycles	6.3 / 10,000 cycles
Rated current AC cos φ=1.0	A	2.5 / 10,000 cycles	2.5 / 10,000 cycles	10.0 / 10,000 cycles	10.0 / 10,000 cycles
Max. switching current AC cos φ=0.4	A	7.2 / 1,000 cycles	no specification	no specification	no specification

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Switch properties	Unit of measure	S01	S02	S06	S08
Max. switching current AC cos φ=1.0	A	6.3 / 3,000 cycles; 7.5 / 300 cycles	no specification	25.0 / 100 cycles	no specification

Mechanical	Unit of measure	S01	S02	S06	S08
Contact resistance	mΩ	≤50	≤50	≤50	≤50
High-voltage resistance	kV	2.0	2.0	2.0	2.0
Standard connection lead wire	mm^2	0.25 / AWG22	0.25 /AWG22	0.75 / AWG18	0.75 / AWG18
For devices in protection class		I+II	I+II	I+II	I+II
Diameter (with/without insulation cap)	mm	9.5	9.5	10.5	10.5
Installation height of the housing (with/without insulation cap)	mm	from 4.3	from 4.7	from 7.0	from 7.0
Length of insulation cap	mm	15.0	15.0	17.5	17.0
Pressure resistance of the housing	N	450	450	600	600

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