Thermal Cut-Out Thermostat
Manual Reset

RoHS Compliant

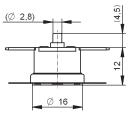
Description

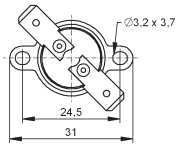
These temperature switches are very reliable bimetal technology components, offering a long life time. The normally closed contacts open when reaching the predefined temperature by snapping of a bimetal disc. Temperature setting is defined through conditioning of the disc. After a corresponding cooling down, the bimetal disc snaps back to the original position and closes the current circuit again or remains in open position until manually resettled. These types are perfect surface mount components, offering high temperature sensibility and can be used in a wide range of white goods, automotive technology, mechanical engineering, kitchen devices.

Specifications

Technical data	Values
Function	Manual Reset
Version	Normally Closed
(VDE) Rated current at 250 V AC (cos φ 0,95)	16A
(VDE) Switching Cycles	3,000
(VDE) Temperature Range T_A (steps in 5 K)	150°C Max.
(UL) Rated current 240V AC (cos φ 1,0)	10A
(UL) Switching cycles	6,000
(UL) Temperature Range T_A (steps in 5K)	+40°C to +150°C
Tolerance	T_A<100°C: ±4 K / T_A >100°C: ±5 K / T_A>150°C: ±8 K / T_A >200°C: ±10 K
Contact Resistance	<30mΩ
Degree of protection of enclosure (EN 60529	IP00 (60EN IP64)
Dielectric strength	AC 1,500 V/1min. oder AC 1,800 V/1 sec.
Suitable for use in protection class	I, II

Standard Types

Type	n.c. Normally Closed = 1	n.o. Normally Open = 3	Code	Illustration	Drawing Dimensions (mm)	Technical Description
05EN	1	-	Manual, Reset Pin, Housing Thermosetting Plastic			Terminals 6.3 × 0.8, Small, Loose Bracket, Aluminium Cap, Reset Pin

Code	Illustration	Drawing Dimensions (mm)	Technical Description
4			Loose Bracket, Small

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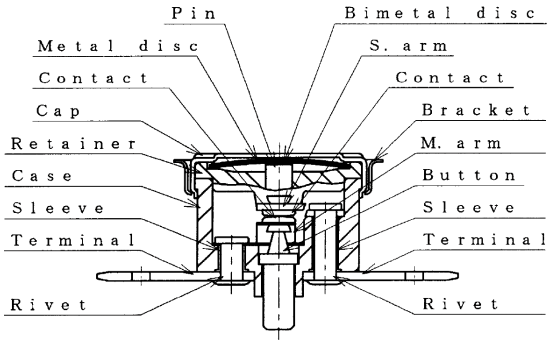
Structure



Materials of parts

Part	Material
Cap	Aluminium Copper Stainless Steel
Case	Phenolic Resin
M.arm	Beryllium Copper alloy
Terminal	Brass
Bracket	Stainless Steel
Contacts	Silver-Nickel alloy
Button	Phenol

Part Number Table

Description	Part Number
Thermal Switch, NC, 45°C	05EN1034(45/M)
Thermal Switch, NC, 65°C	05EN1034(65/M)
Thermal Switch, NC, 80°C	05EN1034(80/M)
Thermal Switch, NC, 90°C	05EN1034(90/M)
Thermal Switch, NC, 100°C	05EN1034(100/M)
Thermal Switch, NC, 115°C	05EN1034(115/M)
Thermal Switch, NC, 130°C	05EN1034(130/C)
Thermal Switch, NC, 150°C	05EN1034(150/C)