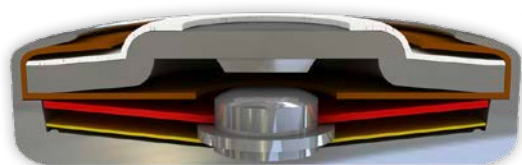
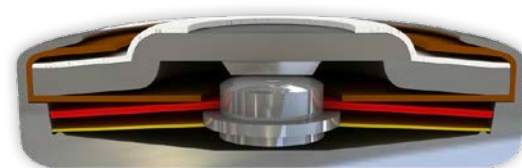
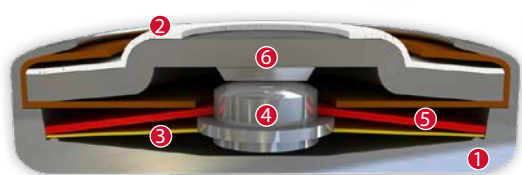


DATASHEET

Thermal Protector L01

Type series 01



Construction and function

The switchgear of type series 01 is fixed in a positive lock and is self-aligning between the floor of a conductive housing (1) and a contact cap which is made of steel (2) and insulated from it, plus an integrated stationary silver contact (6) which closes the housing like a button cell. At the same time, the spring snap-in disc (3) which forms the current transfer element bears the movable contact (4) and discharges the flow of current and self-heating from the bimetallic disc (5) by exercising consistent, steady contact pressure. The bimetallic disc (5) is held on the one movable contact (4) which sticks out through this without having to be welded or fixed. As such, it can continually work (exposed) and only reacts to the ambient temperature in the device to be protected. When the rated switching temperature is reached, the bimetallic disc (5) snaps into its inverted position and pushes the spring snap-in disc (3) downwards. The contact is abruptly opened and the temperature rise of the device to be protected is disrupted. If the ambient temperature now falls, the bimetallic disc (5) snaps back into its start position when reaching the defined reset temperature and the contact is closed again.

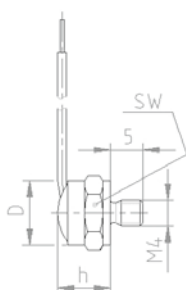
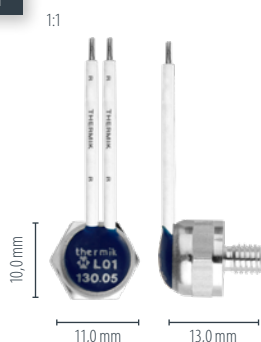
Features:



Specially flat design	to fit closely built-up circuits
Quick response sensitivity	Featured by small protector mass and the metal-housing
Excellent long term performance	due to instantaneous switching, fine silver contacts, constant contact resistance and to electrically as well as mechanically unstressed bimetallic disc, reproducible switching temperature values
Instantaneous switching	with always constant contact pressure up to the nominal switching point, resulting in low contact stress
Very short bounce times	< 1 ms
Temperature resistance	by use of high temperature resistant materials and components

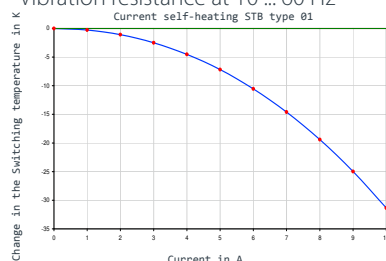
L01

Type: Normally closed; resets automatically; with connector cables; with epoxy; fully insulated in a screw on housing



Diameter d	10,0 mm
Housing height h	ab 7,0 mm
Thread/Length	M4 x 5,0 mm
Width across flats/ Max. torque	10,0 mm / 2 Nm

Nominal switching temperature (NST) in 5 °C increments	60 °C - 200 °C
Tolerance (standard)	±2,5 K / ±5 K
Reverse Switch Temperature (defined RST is possible at the customer's request)	UL ≥ 35° C (≤ 80° C NST) -35 K ± 15 K (≥ 85° C ≤ 180° C NST) -65 K ± 15 K (≥ 185° C ≤ 200° C NST)
	VDE ≥ 35 °C
Housing height	from 7,0 mm
Diameter	10,0 mm
Thread/Length	M4 x 5,0 mm
Width across flats/Max. torque	10,0 mm / 2 Nm
Resistance to impregnation *	suitable
Suitable for installation in protection class	I + II
Pressure resistance to the switch housing *	450 N
Standard connection	Lead wire 0,25 mm ² / AWG22
Available approvals (please state)	IEC; ENEC; VDE; UL; CSA; CQC
Operational voltage range AC/DC	up until 500 V AC / 14 V DC
Rated voltage AC	250 V (VDE) 277 V (UL)
Rated current AC cos φ = 1.0/cycles	2,5 A / 10.000
Rated current AC cos φ = 0.6/cycles	1,6 A / 10.000
Max. switching current AC cos φ = 1.0/cycles	6,3 A / 3.000 7,5 A / 300
Rated current AC cos φ = 0.4/cycles	1,8 A / 10.000
Max. switching current AC cos φ = 0.4/cycles	7,2 A / 1.000
Rated voltage DC	12 V
Max. switching current DC/cycles	40,0 A / 5.000
High voltage resistance	2,0 kV
Total bounce time	< 1 ms
Contact resistance (according to MIL-STD. R5757)	≤ 50 mΩ
Vibration resistance at 10 ... 60 Hz	100 m/s ²



Ordering example:

L01 - 125.05 0100/ 0100

Type / version _____

NST [°C] _____

Tolerance [K] _____

Lead lengths [mm] _____ L₁ L₂

Marking example:

Trade mark  **thermik**

Type and version **L01**

NST [°C] . Tolerance [K] — **125.05**

More varieties of the type series 01:
www.thermik.de/en/products/baureihen-en/01/

Tanpoquier Electrical Equipment

Authorized Distributor

Tel : 400-0506-811

Website : www.tpqe.com

Email : support@tpqe.com

More products :

PCA1.2003.1EG 10	S01.085.05.0050.0050	ZCY15
PCA1.2005.1EG	S01.105.05.0100.0100	XCRZ03
PCA1.1505.1EG 10	S01.140.05.0050.0050	ZCE01
PCA1.2003.10EG 10	S01.160.05.0050.0050	ZCKY11C
PCA1.2005.1S	CP1.140.05.0100.0100	ZCKY31
PCA1.2003.1EG 10	L01.085.05.0050.0050	ZCKY422460
PCS1.1503.1	S02.150.05.0050.0050	ZCY22
PCS1.1302.1M	S06.150.05.0100.0100	ZCE10
PCA1.2004.1EG 10	CK1.060.05.0050.0050	ZCY46
PCS1.1302.5M	S05.175.05.0100.0100	ZCKD31
PCS1.1302.10M	C01.240.05.0239.0114	ZCKE09
PCA1.2005.10S	S01.115.05.0115.0115	ZCMD21L2
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