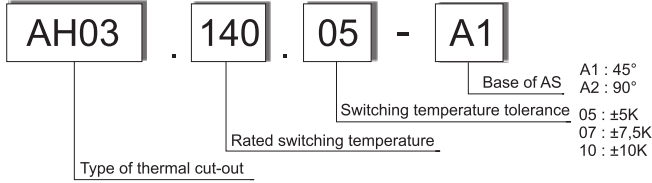
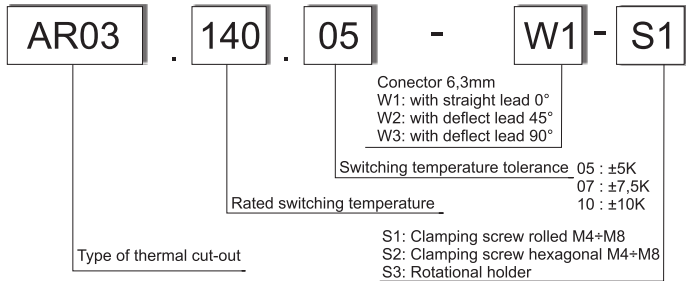


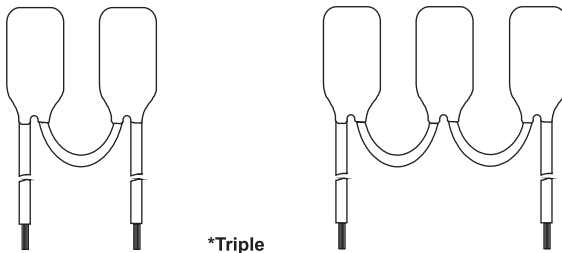
Marking of thermal cut-outs type: AH, AK, AS.



Marking of thermal cut-outs type: AR.



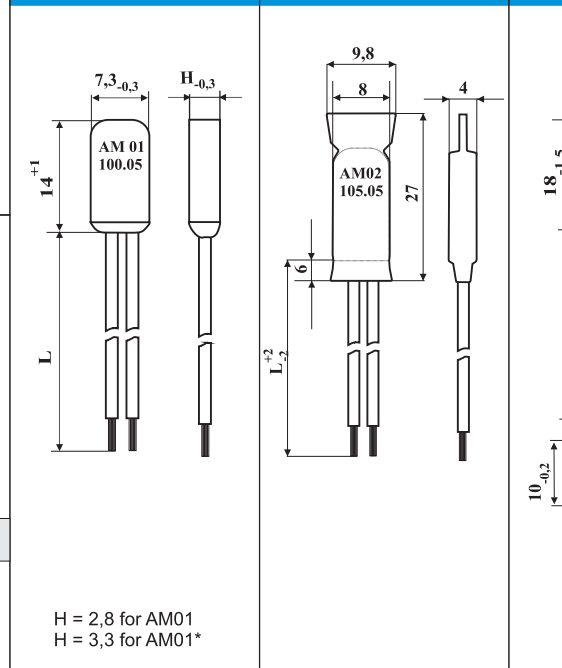
Options:



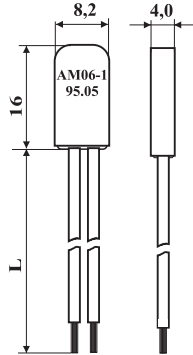
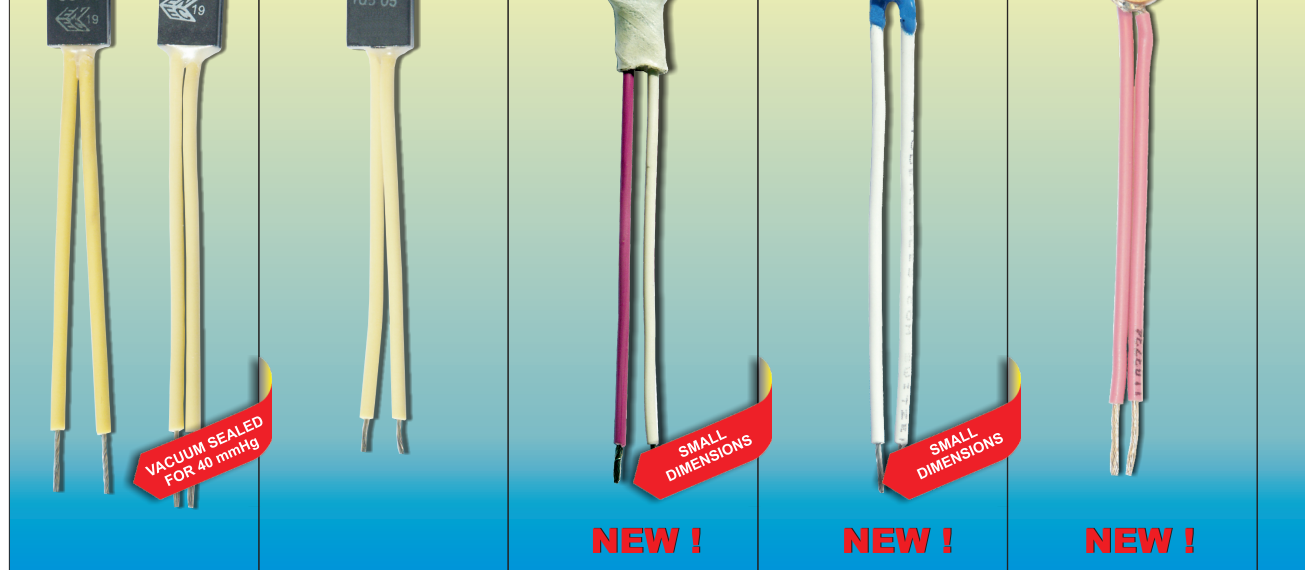
\* non-standard temperatures acc. to customer requirements

**Contact configuration - abbreviations**

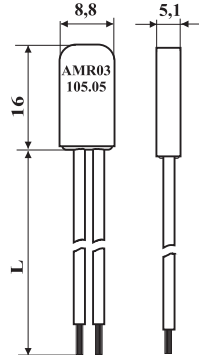
n.c. normally closed      SPST single-pole single-throw  
n.o. normally open      DPST double-pole single-throw  
3PST triple-pole single-throw



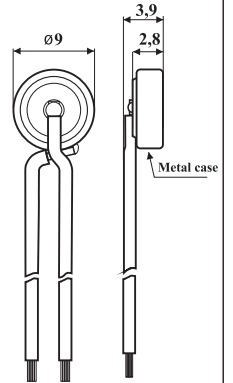
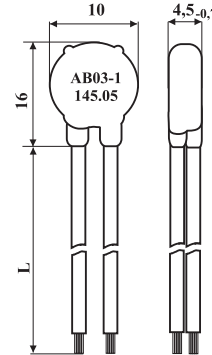
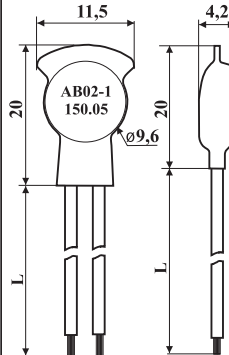
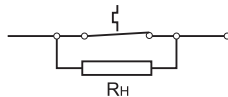
	Technical data	Type of thermal cut-out	AM01   AM01*	AM02	
1	Contact configuration		SPST n.c.	SPST n.c.	
2	Rated voltage		250V; AC	250V; AC	
3	Rated current of resistance loading I <sub>zn</sub> , cosφ = 1,0 of resistance and induction loading I <sub>x</sub> , cosφ = 0,6		2,5 A 1,6 A	2,5 A 1,6 A	
4	Number of switching cycles at rated loading		10 000 cycles	10 000 cycles	
5	Maximum loading / number of automatic cycles		3,6 A / 2000 cycles	3,6 A / 2000 cycles	3,6 A / 2000 cycles
6	Range of rated switching temperatures		65°C - 130°C   65°C - 150°C*	65°C - 150°C	
7	Switching temperature tolerance		±5K/±7,5K/±10K	±5K/±7,5K/±10K	±5K/±7,5K/±10K
8	Switching differential		30 ± 15 K	30 ± 15 K	
9	Speed of temperature changes		0,5 ÷ 1 K / min	0,5 ÷ 1 K / min	
10	Degree of pollution (acc. to EN-60730-1)		2	2	
11	Thermal resistance		max 170°C   190°C* / 1 min	max 190°C / 1 min	max 190°C / 1 min
12	Degree of protection		IP 00	IP 00	
13	PTI of material used for insulation		250 V	250 V	
14	Construction		incorporated; non-electronic	incorporated; non-electronic	incorporated; non-electronic
15	Electrical strength of insulation		1 000 V   2000 V*; 50 Hz	2 500 V; 50 Hz	
16	Contact resistance		max ≤ 40 mΩ	max ≤ 40 mΩ	
17	Approvals acc. to design for		VDE, UL, BEAB	VDE, UL, BEAB	VDE, UL, BEAB



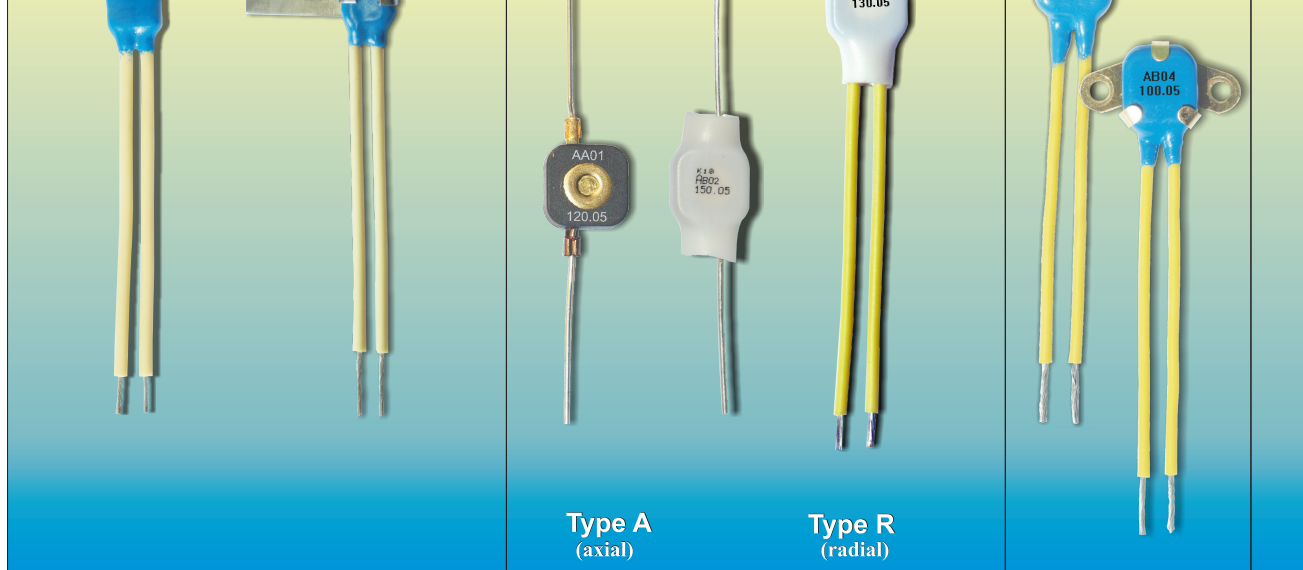
VACUUM SEALED  
FOR 40 mmHg only AM07-1



with holding resistor R<sub>H</sub>

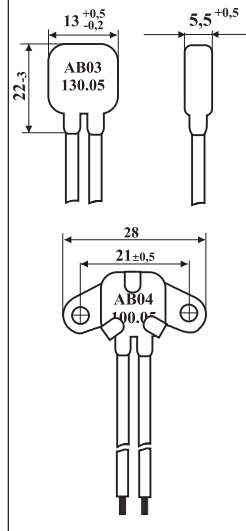
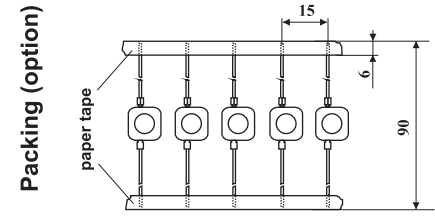
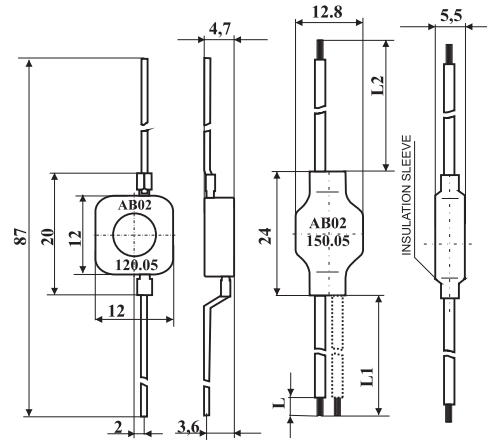
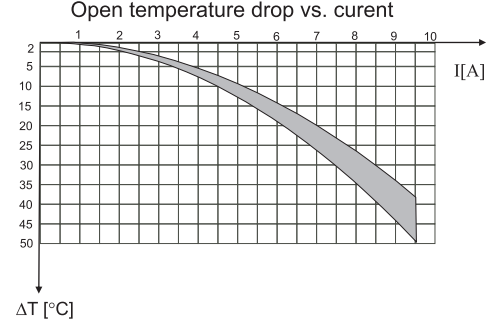
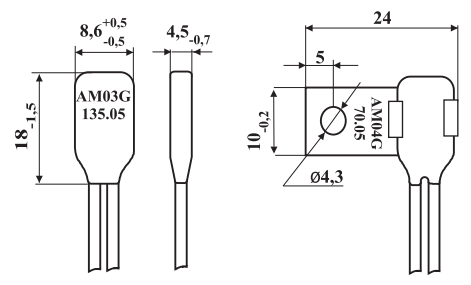


	AM06   AM07-1	AMR03	AB02-1	AB03-1	AD01	
1	SPST n.c.	SPST n.c.	SPST n.c.	SPST n.c.	SPST n.c.	
2	250V; AC	250V; AC	250V; AC	250V; AC	250V; AC	
3	2,5 A 1,6 A	2,5 A 1,6 A	2,5 A 1,6 A	2,5 A 1,6 A	2,5 A 1,6 A	
4	10 000 cycles	3 000 cycles	10 000 cycles	10 000 cycles	10 000 cycles	
5	3,6 A / 2000 cycles	3,6 A / 2000 cycles	3,6 A / 2000 cycles	3,6 A / 2000 cycles	3,6 A / 2000 cycles	3
6	65°C - 160°C	65°C - 150°C	65°C - 160°C	65°C - 150°C	65°C - 180°C	
7	±5K/±7,5K/±10K	±5K/±7,5K/±10K	±5K/±7,5K/±10K	±5K/±7,5K/±10K	±5K/±7,5K/±10K	
8	30 ± 15 K	voltage maintained	30 ± 15 K	30 ± 15 K	30 ± 15 K	
9	0,5 ÷ 1 K / min	0,5 ÷ 1 K / min	0,5 ÷ 1K / min	0,5 ÷ 1K / min	0,5 ÷ 1K / min	
10	2	2	2	2	2	
11	max 230°C / 1 min	max 190°C / 1 min	max 230°C / 1 min	max 230°C / 1 min	max 190°C / 1 min	m
12	IP 54   IP68	IP 00	IP 00	IP 00	IP 00	
13	250 V	250 V	250 V	250 V	250 V	
14	incorporated; non-electronic	incorporated; non-electronic	incorporated; non-electronic	incorporated; non-electronic	incorporated; non-electronic	incor
15	2 500 V; 50 Hz	2 500 V; 50 Hz	2 500 V; 50 Hz	2 500 V; 50 Hz	-----	
16	max ≤ 40 mΩ	max ≤ 40 mΩ	max ≤ 40 mΩ	max ≤ 40 mΩ	max ≤ 40 mΩ	
17	BEAB, ENEC	UL	VDE in progress			

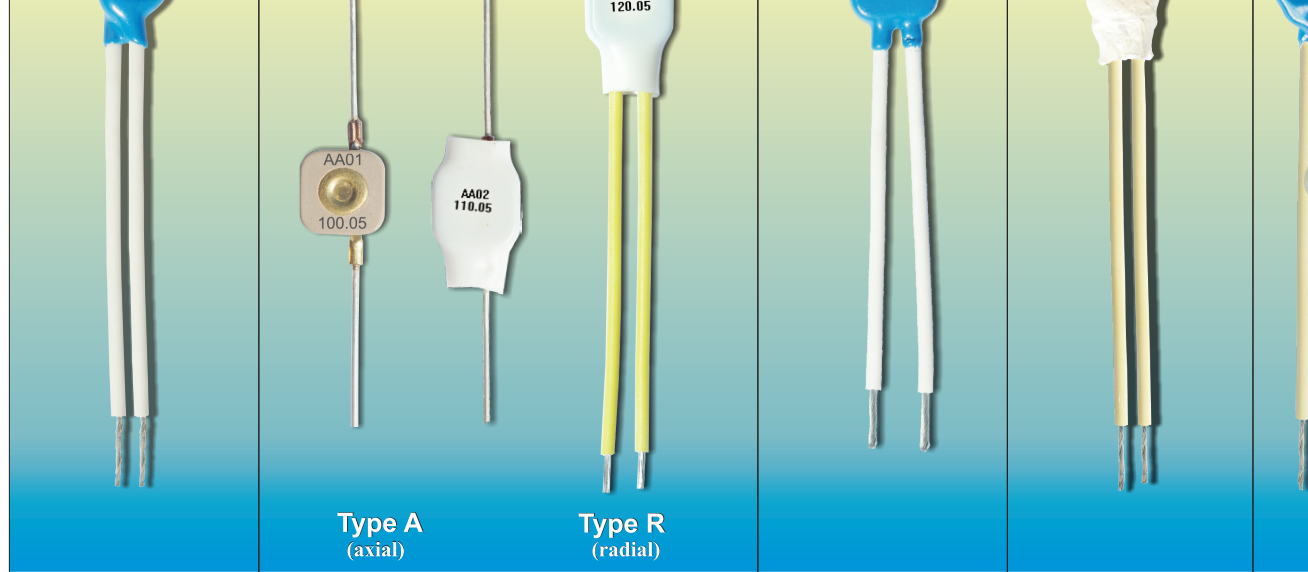


Type A  
(axial)

Type R  
(radial)

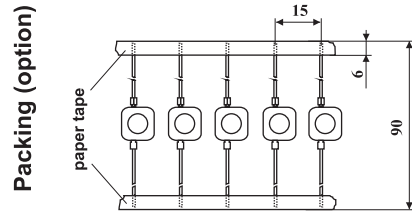
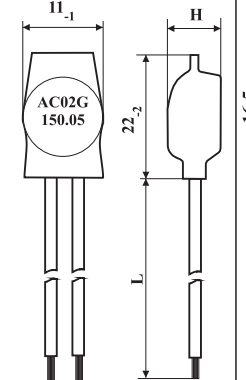
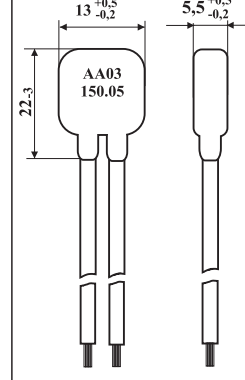
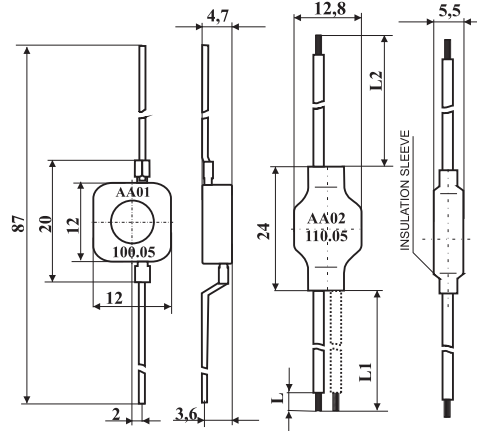
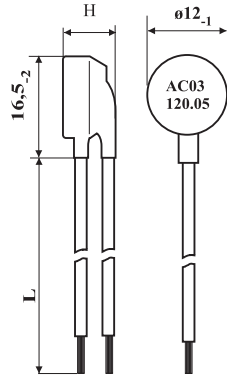


	AM03G AM04G	AB01   AB02	AB03 AB04	
1	SPST n.c.	SPST n.c.	SPST n.c.	
2	250V; AC	250V; AC	250V; AC	
3	4,5 A 1,6 A	6,3 A 4,0 A	6,3 A 4,0 A	
4	10 000 cycles	10 000 cycles	10 000 cycles	
5	6 A / 2000 cycles	10 A / 2000 cycles	10 A / 2000 cycles	10
6	65°C - 150°C	65°C - 150°C	65°C - 150°C	
7	±5K/±7,5K/±10K	±5K/±7,5K/±10K	±5K/±7,5K/±10K	±
8	30 ± 15 K	30 ± 15 K	30 ± 15 K	
9	0,5 ÷ 1 K / min	0,5 ÷ 1 K / min	0,5 ÷ 1 K / min	
10	2	2	2	
11	max 190°C / 1 min	max 230°C / 1 min	max 230°C / 1 min	m
12	IP 00	IP 00	IP 00	
13	250 V	250 V	250 V	
14	incorporated; non-electronic	incorporated; non-electronic	incorporated; non-electronic	incorp
15	2 500 V; 50 Hz	-----   2 500 V ; 50Hz	2 500 V; 50 Hz	2
16	max ≤ 40 mΩ	max ≤ 25 mΩ	max ≤ 25 mΩ	
17				



Type A  
(axial)

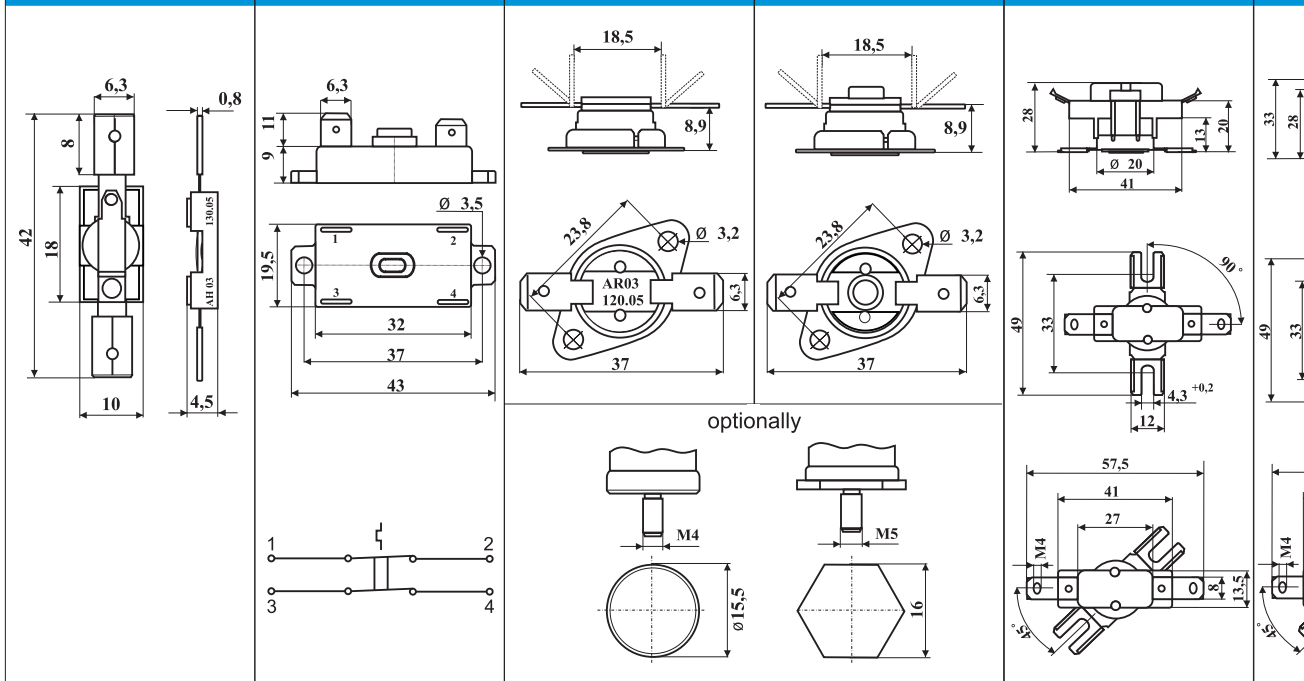
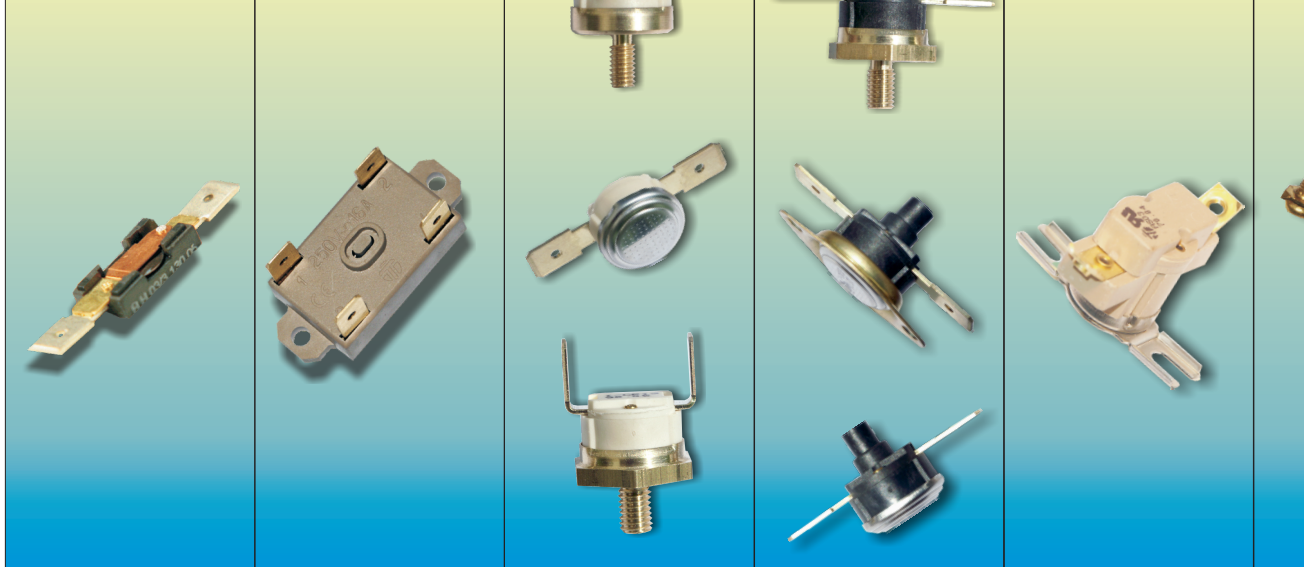
Type R  
(radial)



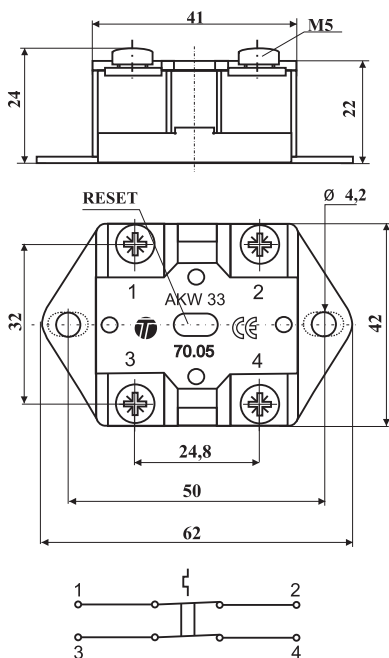
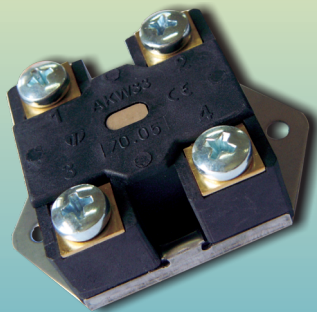
H = 7,7 for silicone cable  
H = 7,2 for PTFE cable

H = 7,2 for silicone cable  
H = 6,9 for PTFE cable

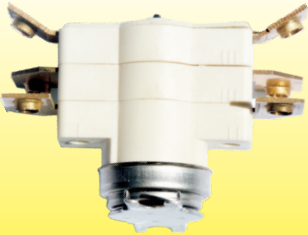





	AC03	AA01   AA02	AA03	AC02G	
1	SPST n.c.	SPST n.c.	SPST n.c.	SPST n.c.	
2	250V; AC	250V; AC	250V; AC	250V; AC	
3	6,3 A 4,0 A	13A 6,0A	13 A 6,0 A	13 A 6,0 A	
4	10 000 cycles		10 000 cycles	10 000 cycles	
5	10 A / 2000 cycles	10 A / 2000 cycles	16 A / 2000 cycles	16 A / 2000 cycles	16
6	65°C - 150°C	65°C - 150°C	65°C - 150°C	65°C - 180°C	
7	±5K/±7,5K/±10K	±5K/±7,5K/±10K	±5K/±7,5K/±10K	±5K/±7,5K/±10K	±
8	30 ± 15 K	30 ± 15 K	30 ± 15 K	30 ± 15 K	
9	0,5 ÷ 1 K / min	0,5 ÷ 1 K / min	0,5 ÷ 1 K / min	0,5 ÷ 1 K / min	
10	2	2	2	2	
11	max 190°C / 1 min	max 230°C / 1 min	max 230°C / 1 min	max 190°C / 1 min	m
12	IP 00	IP 00	IP 00	IP 00	
13	250 V	250 V	250 V	250 V	
14	incorporated; non-electronic	incorporated; non-electronic	incorporated; non-electronic	incorporated; non-electronic	incorp
15	2 500 V; 50 Hz	-----   2 500 V ; 50Hz	2 500 V; 50 Hz	2 500 V; 50 Hz	2
16	max ≤ 25 mΩ	max ≤ 25 mΩ	max ≤ 15 mΩ	max ≤ 15 mΩ	
17	VDE				



	AH03/3	AK33	AR03	AR33	AS03	
1	SPST n.c.	DPST n.c.	SPST n.c.	SPST n.c.	SPST n.c.	
2	250V; AC	250V; AC	250V; AC	250V; AC	250V; AC	
3	13 A 2,5 A	16 A per each line 6,0 A per each line	16 A 6,0 A	16 A 6,0 A	25A/250 V	25A/16V
4	10 000 cycles	10 000 cycles	3 000 cycles	3 000 cycles	6 000 cycles	
5	16 A / 2000 cycles	20 A / 200 cycles	20 A / 200 cycles	20 A / 200 cycles	40 A / 50 cycles	3
6	65°C - 150°C	65°C - 150°C	50°C - 180°C	50°C - 180°C	60°C - 180°C	
7	±5K/±7,5K/±10K	±5K/±7,5K/±10K	±5K/±7,5K/±10K	±5K/±7,5K/±10K	±5K/±7,5K/±10K	-
8	30 ± 15 K	manual reset	30 ± 15 K	manual reset	30 ± 15 K	
9	0,5 ÷ 1 K / min	0,5 ÷ 1 K / min	0,5 ÷ 1 K / min	0,5 ÷ 1 K / min	0,5 ÷ 1 K / min	
10	2	2	2	2	2	
11	max 230°C / 1 min	max 260°C / 1 min	max 260°C / 1 min	max 260°C / 1 min	max 260°C / 1 min	m
12	IP 00	IP 00	IP 00	IP 00	IP 00	
13	250 V	250 V	250 V	250 V	250 V	
14	incorporated; non-electronic	incorporated; non-electronic	incorporated; non-electronic	incorporated; non-electronic	incorporated; non-electronic	incorp
15	-----	2 500 V; 50 Hz	2 500 V; 50 Hz*	2 500 V; 50 Hz*	2 500 V; 50 Hz*	
16	max ≤ 40 mΩ	max ≤ 40 mΩ	max ≤ 20 mΩ	max ≤ 20 mΩ	max ≤ 20 mΩ	
17			VDE	VDE	UL	

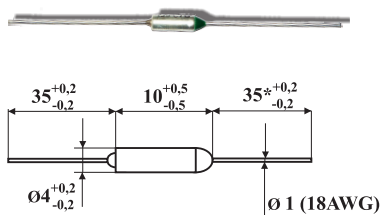


AKW33	
1	DPST n.c.
2	max 400V; AC
3	32A/400 V 10A/400 V
4	300 cycles
5	42A / 30 cycles
6	65°C - 150°C
7	±5K/±7,5K/±10K
8	manual reset
9	0,5 ÷ 1 K / min
10	2
11	max 260°C / 1 min
12	IP 00
13	250 V
14	incorporated; non-electronic
15	3750 V; 50 Hz
16	max ≤ 40 mΩ
17	

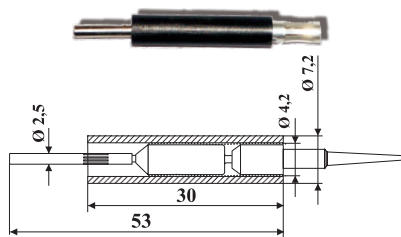
			
Electrical scheme 	Electrical scheme 	Electrical scheme 	
1	3PST n.c.	SPST n.c.	S
2	max 400V; AC	115V AC; 230V AC; 24V,48V AC, DC	115V AC; 230
3	40A (300 cycles)	16A	
6	65°C - 150°C	65°C - 175°C	65
8	manual reset	not higher than: -20°C	not high
12	IP 00	IP 00	
15	2500V; 50Hz	2500 V	

## OTHER PRODUCTS

### Thermal fuses



### Thermal links



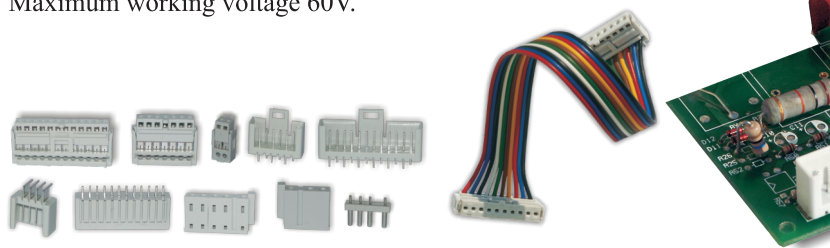
Approved Applied

UL file NO: E126429, MITI : 33-890, -942, -945, -940, -941, -943, -944, JET1054-32001-1002, -1003  
\*SW-108T, 109T,110T,114T,128T Dual Retings UL, VDE approved 250V 10A and 125V 10A and 125V 10A and 125V 10A

Cat No.	Tf [°C]	Cutoff temperature	Th [°C]	TEMPERATURE Rating	
				K	MARK
SW-102T	72	72°C +2°C, -2°C	57		
SW-105T	77	77°C +0°C, -4°C	62		
SW-109T*	84	84°C +0°C, -5°C	57		
SW-104T	98	98°C +2°C, -2°C	73		
SW-108T*	100	100°C +0°C, -5°C	75		
SW-110T*	109	109°C +0°C, -5°C	84		
SW-111T	121	121°C +0°C, -5°C	94		
SW-115T	126	126°C +0°C, -4°C	100		
SW-129T	128	128°C +0°C, -5°C	103		
SW-114T*	139	139°C +0°C, -4°C	114		
SW-138T	144	144°C +0°C, -5°C	119		
SW-116T	152	152°C +0°C, -4°C	127		
SW-120T	167	167°C +0°C, -4°C	144		
SW-118T	169	169°C +0°C, -4°C	144		
SW-127T	184	184°C +0°C, -6°C	159		
SW-122T	192	192°C +3°C, -3°C	162		
SW-125T	195	195°C +0°C, -6°C	165		
SW-139T	216	216°C +0°C, -6°C	178		
SW-124T	228	228°C +0°C, -6°C	187		
SW-128T*	240	240°C +0°C, -6°C	193		

### Multiple connectors

Multiple connectors for printed boards, used in radio - TV equipment. These connectors are intended for indirect connections between circuits of electronic equipment, allowing building of connection system of type wire-board and board-to-board, with 2,54 mm or 5mm raster. In systems of wire-board the most suitable for connection are conductors with wire cross-section of 0,12 to 0,20 mm<sup>2</sup>. Maximum working voltage 60V.



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