Thermal-Link

Organic Type

OTCO

- Metal Case
- Compact Size
- Non-Resettable
- Low Resistance
- Organic Thermal Pellet
- High Accuracy of Functioning Temp.
- RoHS and REACH compliant

Please refer to the datasheet of each series.

https://setsafe.com/Product/Over-Temperature-Protection/Thermal-Link-OTCO-Organic-Type.html

2026

SETsafe | SETfuse

Providing a Total Solution for High Standard Safety Circuit Protection

Thermal-Link (OTCO)-Organic Type

Thermal-Link (OTCO)-Organic Type is defined as a non-resettable protective device functioning one time only that uses organic compounds as temperature sensing material.

Under normal operating conditions for RS/RB/RT series products, the sliding contact remains in contact with the isolated lead, and the circuit is in a conductive state, when the Thermal-Link senses abnormal heat and temp. reaches the predetermined fusing temp., organic thermal pellet melts and the sliding contact separates from the isolated lead with the assistance of the trip spring, thereby the circuit is disconnected. OTCO mainly consists of metal case, spring, sliding contact and thermal pellet.

Under normal operating conditions for RK/RU/RP series products, the conductive nail remains in contact with the isolated lead, and the circuit is in a conductive state, when the Thermal-Link senses abnormal heat and temp. reaches the predetermined fusing temp., organic thermal pellet melts and the conductive nail separates from the isolated lead with the assistance of the trip spring, thereby the circuit is disconnected. OTCO mainly consists of metal case, spring, conductive nail, sliding contact and thermal pellet.

OTCO products are widely used in electrical equipment.

SETsafe | SETfuse Thermal-Link (OTCO)-Organic Type product specifications:
Rated Functioning Temp. :(72 ~ 275)℃; Rated Current: 10 A, 15 A /16 A, 20A, 25A, 30A; Rated voltage: 125 VAC~250 VAC, 24VDC~48VDC; safety certification includes UL, cUL, VDE, CCC, KC, PSE, and complies with RoHS and REACH.

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Thermal-Link (OTCO) - Organic Type Features & Model List Overview

Rated Functioning Temp. T_f (°C)	2	9	16	23	29	35	41	48
310	○	○	○	○	○	○	○	○
275	RB275	RS275	RT275	RK275	RU275	RP275	RL275	RM275
263	RB263	RS263	RT263	RK263	RU263	RP263	RL263	RM263
257	RB257	RS257	RT257	RK257	RU257	RP257	RL257	RM257
240	RB240	RS240	RT240	RK240	RU240	RP240	RL240	RM240
229	RB229	RS229	RT229	RK229	RU229	RP229	RL229	RM229
216	RB216	RS216	RT216	RK216	RU216	RP216	RL216	RM216
205	RB205	RS205	RT205	RK205	RU205	RP205	RL205	RM205
192	RB192	RS192	RT192	RK192	RU192	RP192	RL192	RM192
184	RB184	RS184	RT184	RK184	RU184	RP184	RL184	RM184
172	RB172	RS172	RT172	RK172	RU172	RP172	RL172	RM172
167	RB167	RS167	RT167	RK167	RU167	RP167	RL167	RM167
157	RB157	RS157	RT157	RK157	RU157	RP157	RL157	RM157
152	RB152	RS152	RT152	RK152	RU152	RP152	RL152	RM152
144	RB144	RS144	RT144	RK144	RU144	RP144	RL144	RM144
134	RB134	RS134	RT134	RK134	RU134	RP134	RL134	RM134
128	RB128	RS128	RT128	RK128	RU128	RP128	RL128	RM128
121	RB121	RS121	RT121	RK121	RU121	RP121	RL121	RM121
117	RB117	RS117	RT117	RK117	RU117	RP117	RL117	RM117
110	RB110	RS110	RT110	RK110	RU110	RP110	RL110	RM110
104	RB104	RS104	RT104	RK104	RU104	RP104	RL104	RM104
99	RB99	RS99	RT99	○	○	○	RL99	○
98	○	○	○	RK98	RU98	RP98	○	RM98
94	RB94	RS94	RT94	RK94	RU94	RP94	RL94	RM94
84	RB84	RS84	RT84	RK84	RU84	RP84	RL84	RM84
77	RB77	RS77	RT77	RK77	RU77	RP77	RL77	RM77
72	RB72	RS72	RT72	RK72	RU72	RP72	RL72	RM72
I_r (A) Rated Current	10	10 / 15	16	20	25	30	16	25
U_r (VAC) Rated Voltage	250 VAC						○	○
U_r (VDC) Rated Voltage	○						24 VDC	48 VDC
Product Structure	Cylinder-shaped						Square-shaped	

Two structural designs cover AC and DC voltages.

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Thermal-Link (OTCO)-Organic Type

RB Series /: 10A

Description

Organic Thermal-Link (OTCO) is defined as a non-resettable protective device, functioning one time only. It mainly consists of metal case, spring, sliding contact and thermal pellet. When the Thermal-Link senses abnormal heat and temp. reaches the predetermined fusing temp., thermal pellet melts and the sliding contact separates from the isolated lead with the assistance of the trip spring, thereby the circuit is disconnected

SETsafe | SETfuse Organic Thermal-Link (OTCO) RB series Rated Functioning Temp. from 72 ℃ to 275 ℃, Rated Current: 10 A, safety certification Includes CCC, and complies with RoHS and REACH.

Features

- High Accuracy of Functioning Temp.
- Non-Resettable
- Organic Thermal Pellet
- Metal Case
- Low Resistance
- RoHS & REACH Compliant

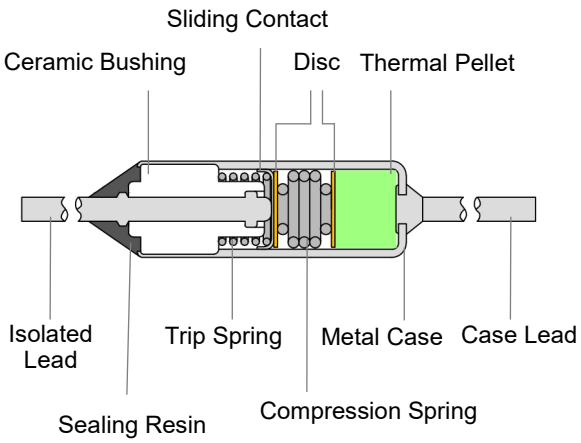
Applications

- Small Home Appliances
- Comfort Home Appliances
- Personal Care Appliances
- Commercial Appliances
- Automobile Field

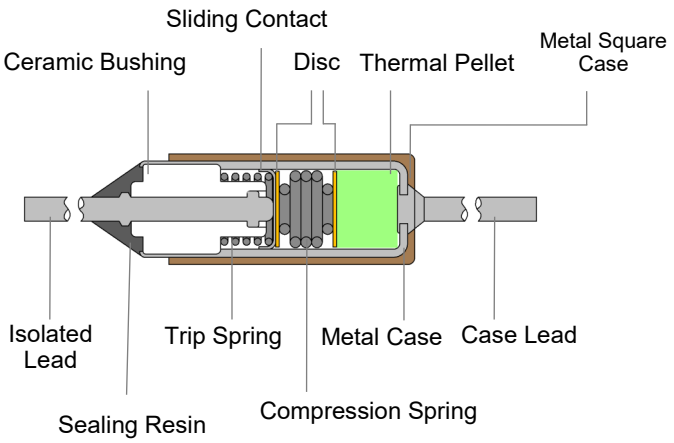
Customization

- Other Temp.
- The Length of Lead Wires
- Taping Packing Available
- Leads Forming Types

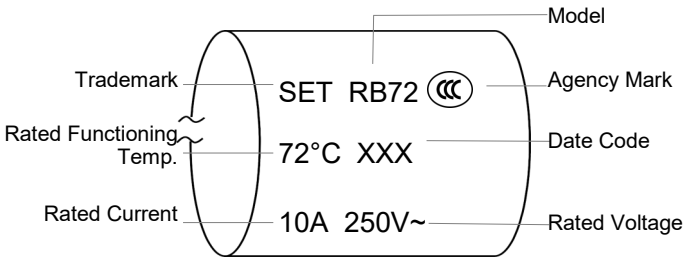
Cylindrical Structure Diagrams



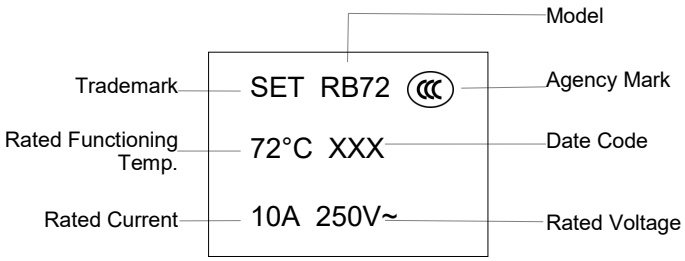
Square Structure Diagrams



Cylindrical Structure Marking



Square Structure Marking



Remark: The Date Code means Year and quarter: A stands for 2000, B stands for 2001 and 01 stands for the first quarter, 02 stands for the second quarter, and so on.

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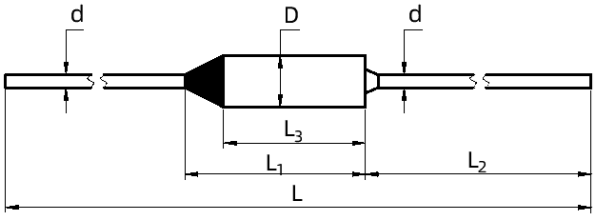
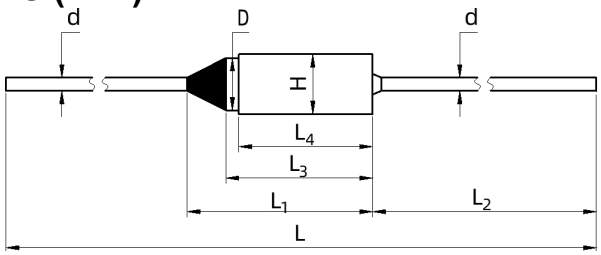
Cylindrical Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	D	d
Standard	65 ± 3	(14)	35 ± 2	(11.3)	Φ 4 ± 0.2	Φ 1 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.3)	Φ 4 ± 0.2	Φ 1 ± 0.1
Option	Customization	(14)	Customization	(11.3)	Φ 4 ± 0.2	Φ 1 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Square Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	L_4	D	H	d
Standard	65 ± 3	(14)	35 ± 2	(11.3)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.3)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1 ± 0.1
Option	Customization	(14)	Customization	(11.3)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Agency Information

Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe | SETfuse
CCC	GB/T 9816.1	2020980205000192

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Thermal-Link (OTCO)-Organic Type

RB Series I_r: 10A

Specifications

Rated Functioning Temp. (T_f) °C

	Model	Fusing Temp.	T_h	T_m	I_r	U_r	I_n	I_{max}	CCC	RoHS REACH
		(°C)	(°C)	(°C)	(A)	(VAC)	(kA)	(kA)	CCC	
275	RB275	271 ± 4	215	450	10	250	1.5	3	●	●
263	RB263	261 +2/-3	205	480	10	250	1.5	3	●	RoHS● REACH *
257	RB257	254 ± 3	200	480	10	250	1.5	3	●	●
240	RB240	238 +2/-3	200	450	10	250	1.5	3	●	●
229	RB229	227 +2/-3	200	450	10	250	1.5	3	●	●
216	RB216	213 ± 3	186	450	10	250	1.5	3	●	●
205	RB205	203 +2/-3	177	450	10	250	1.5	3	●	●
192	RB192	190 +2/-3	162	300	10	250	1.5	3	●	●
184	RB184	181 ± 3	154	250	10	250	1.5	3	●	●
172	RB172	168 ± 3	143	260	10	250	1.5	3	●	●
167	RB167	164 ± 3	137	220	10	250	1.5	3	●	●
157	RB157	155 +2/-3	129	450	10	250	1.5	3	●	●
152	RB152	149 ± 3	122	205	10	250	1.5	3	●	●
144	RB144	141 ± 3	114	300	10	250	1.5	3	●	●
134	RB134	131 ± 3	104	250	10	250	1.5	3	●	●
128	RB128	124 ± 3	98	200	10	250	1.5	3	●	●
121	RB121	118 ± 3	93	300	10	250	1.5	3	●	●
117	RB117	114 ± 3	88	200	10	250	1.5	3	●	●
110	RB110	108 +2/-3	82	240	10	250	1.5	3	●	●
104	RB104	102 +2/-3	74	250	10	250	1.5	3	●	●
99	RB99	95 ± 3	69	200	10	250	1.5	3	●	●
94	RB94	91 ± 3	64	300	10	250	1.5	3	●	●
84	RB84	82 +2/-3	54	200	10	250	1.5	3	●	●
77	RB77	74 ± 3	50	300	10	250	1.5	3	●	●
72	RB72	69 ± 3	42	180	10	250	1.5	3	●	●

Note:

1. "●"Means certificated, "○"Means non-certificated, RoHS & REACH Compliant ." * " indicates that RB263 complies with REACH Directive 1907/2006/EC, SVHC Candidate List, Batch 29, Item 235 for most of the content (please consult SET for details).

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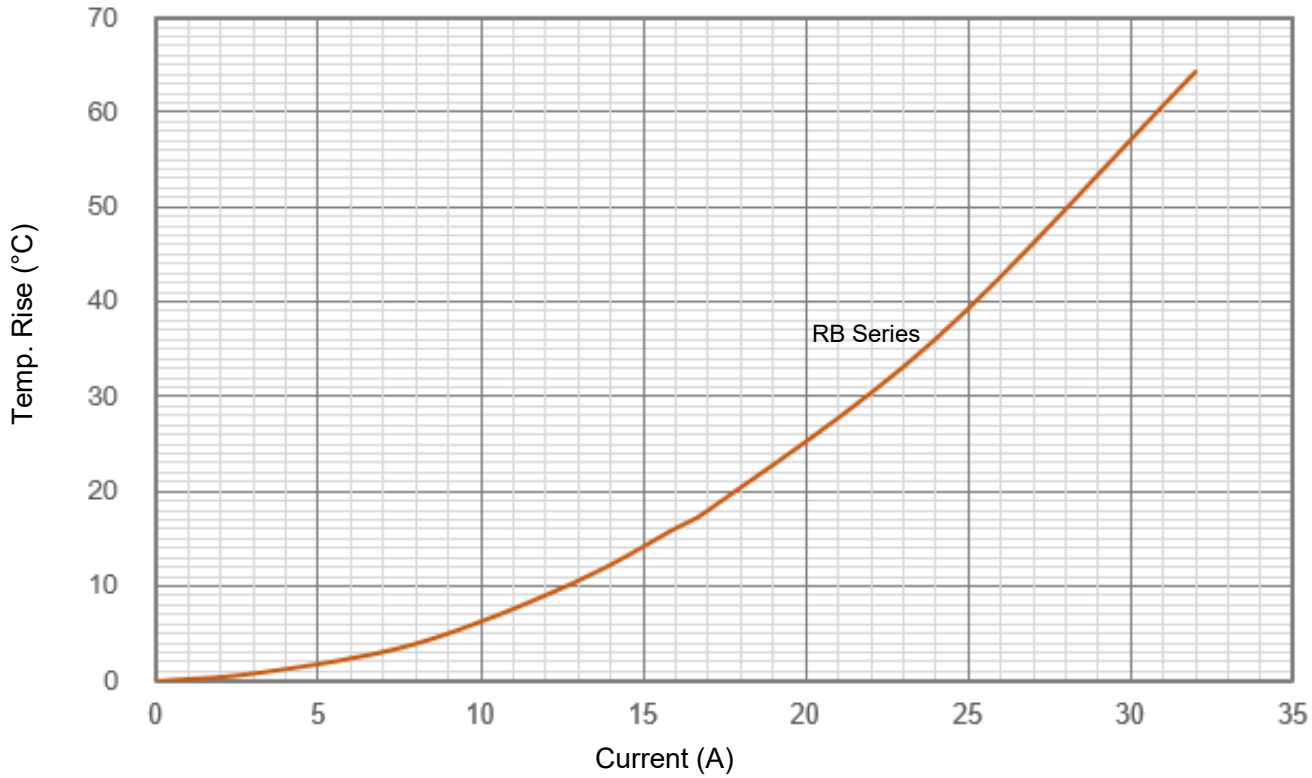
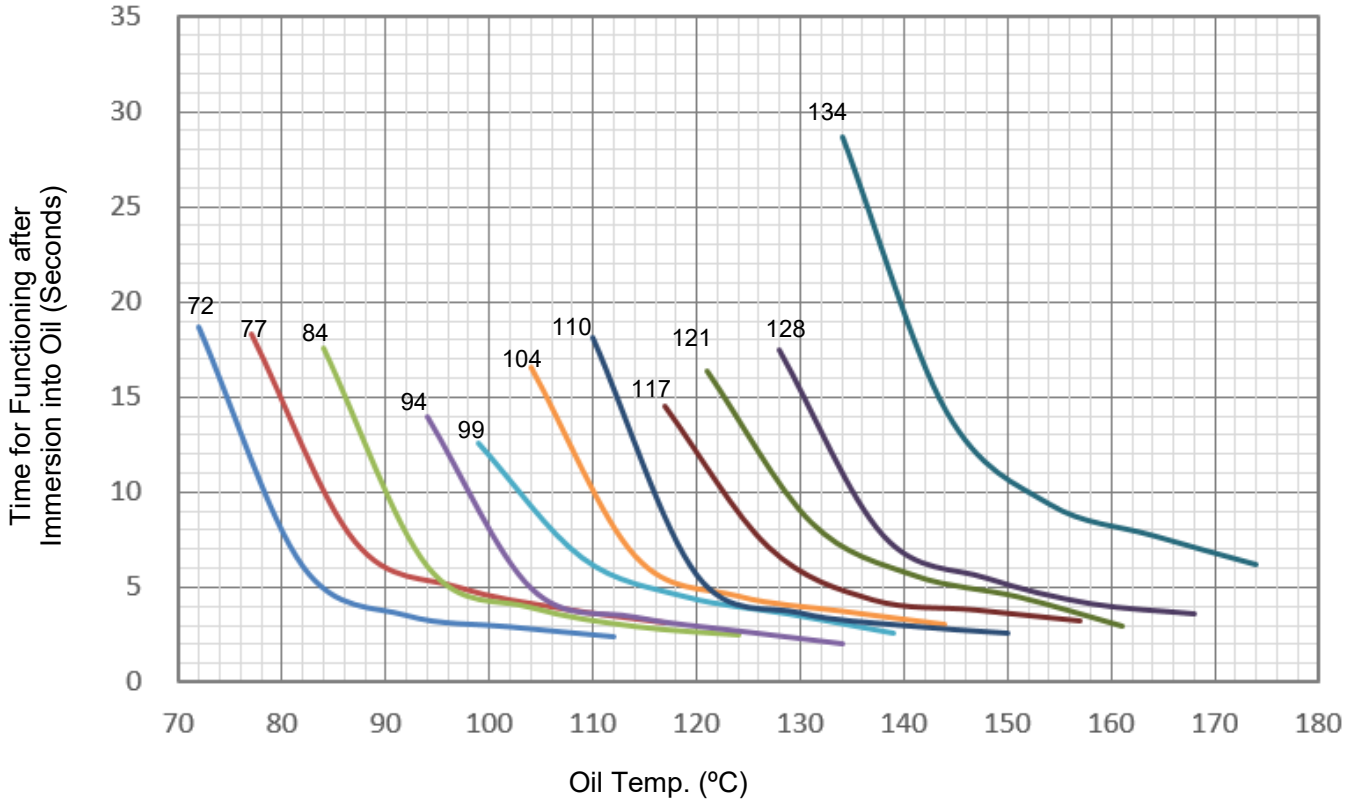
Temp. Rise (Reference)



Response Time (Reference)



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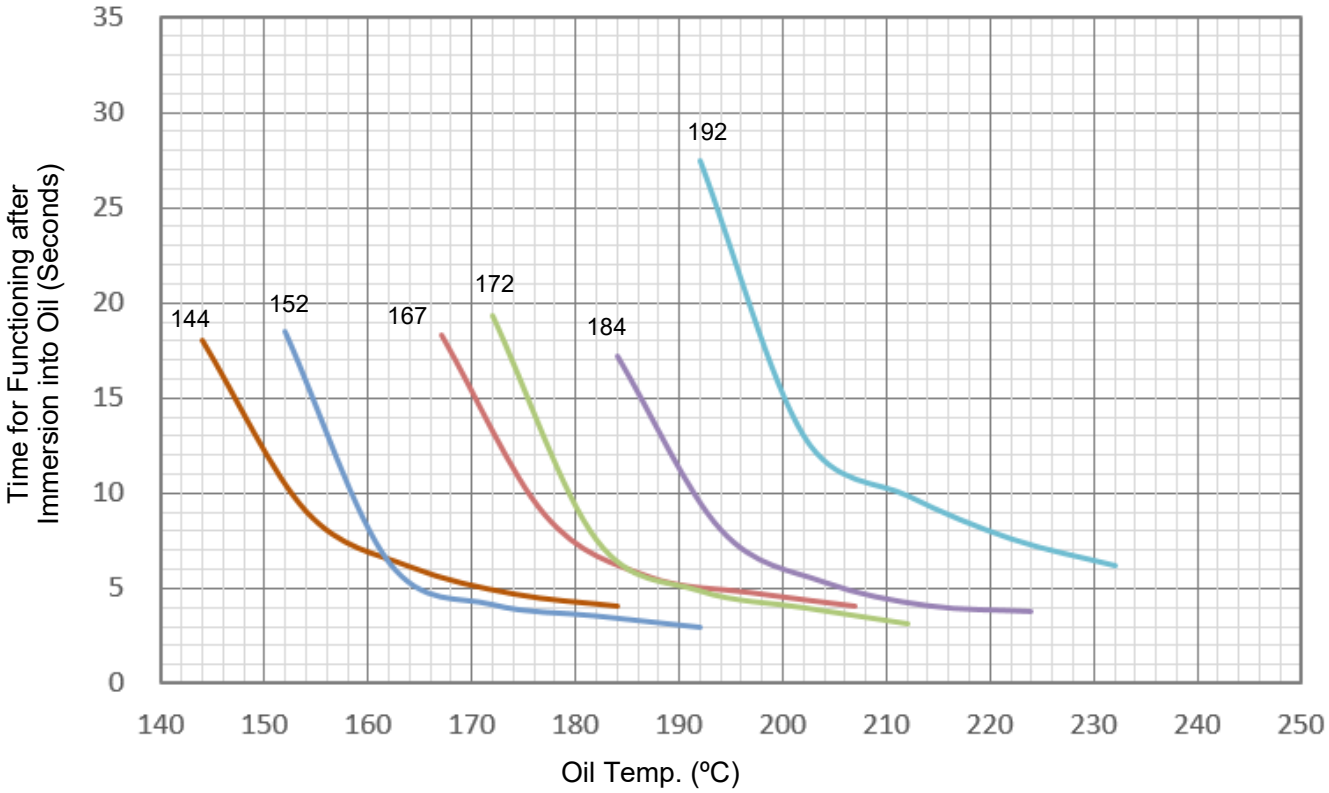

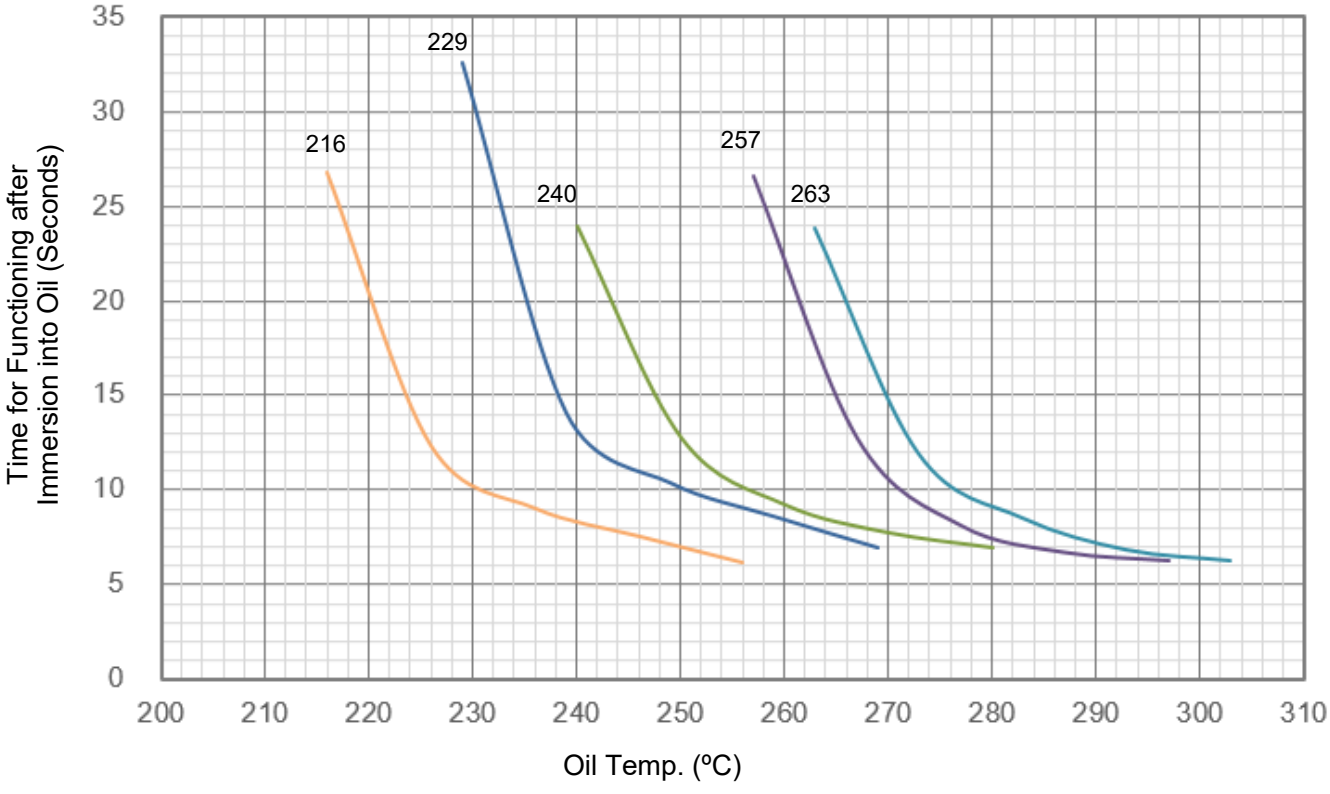

Note: The response time of 157/205/275/310 are testing, the temperature rise and response time testing of square products are continuously being updated. If you require any data, please consult SET.

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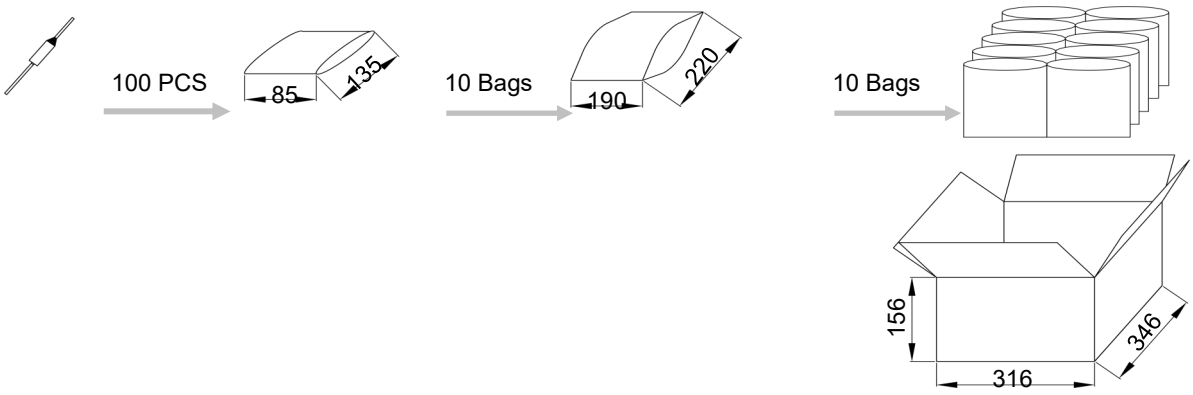
Packaging Information

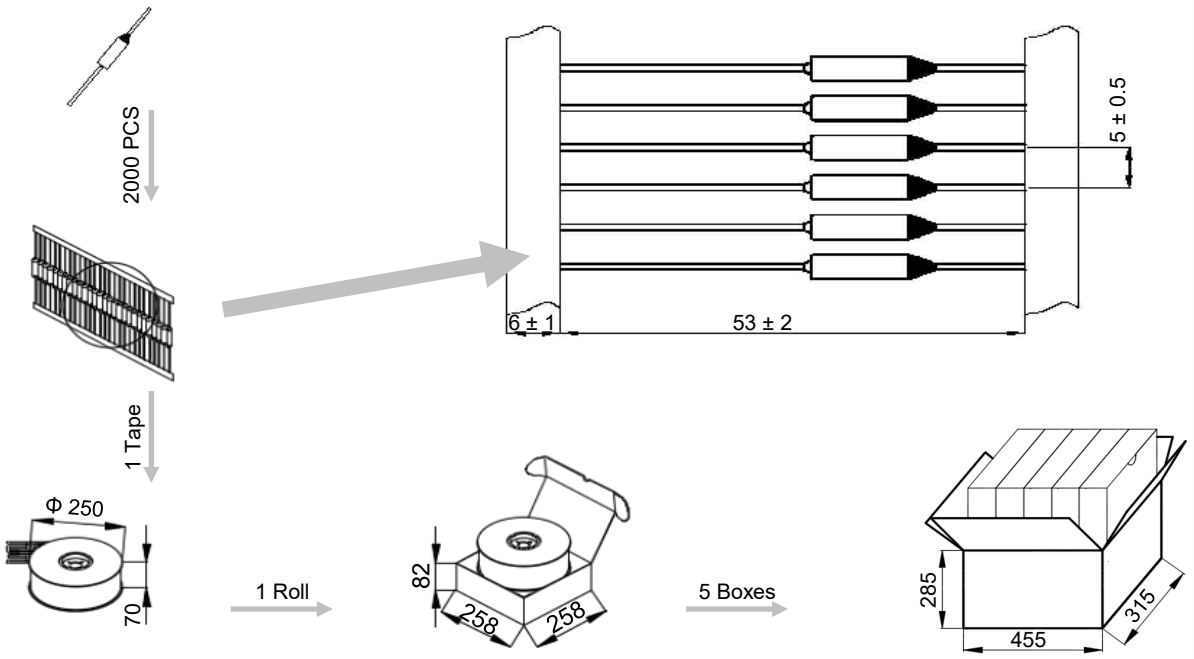
1.Bulk

Item	PE Bag	PE Bag	Carton
Dimensions (mm)	135 x 85	220 x 190	346 x 316 x 156
Quantity (PCS)	100	1000	10000
Gross Weight (kg)			Cylindrical: 11 ± 10% Square: 18 ± 10%



2.Taping

Item	**Scroll**	Box	Carton
Dimensions (mm)	Φ 250 x Φ 85 x 70	258 x 258 x 82	455 x 315 x 285
Quantity (PCS)	2000	2000	10000
Gross Weight (kg)			Cylindrical: 12.7 ± 10% Square: 19.7 ± 10%



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Part Numbering System

OTCO - RB 72 - L S A B - 001

Other Options

Packing

- B Bulk
- T Taping

Leads Forming

- A Straight Lead
- B Single Lead Bending
- C Leads Bending

Lead Length

- S Standard
- L Long
- O Option

Process of Mark

- L Laser

Rated Functioning Temp.

- 72 72 °C, See Specifications

Series

- RB Series See Specifications

Product Category

- OTCO Organic Thermal-Link

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Thermal-Link (OTCO)-Organic Type

RS Series I_r: 10 A/15 A

Description

Organic Thermal-Link (OTCO) RS series is defined as a non-resettable protective device, functioning one time only. It mainly consists of metal case, spring, sliding contact and thermal pellet. When the Thermal-Link senses abnormal heat and temp. reaches the predetermined fusing temp., thermal pellet melts and the sliding contact separates from the isolated lead with the assistance of the trip spring, thereby the circuit is disconnected

SETsafe | SETfuse Organic Thermal-Link (OTCO) RS series Rated Functioning Temp. from 72 ℃ to 275 ℃, Rated Current: 10 A/15 A, Rated Voltage: 250VAC, safety certification Includes UL, cUL, PSE, VDE, KC, CCC, TUV, and complies with RoHS and REACH.

Features

- High Accuracy of Functioning Temp.
- Non-Resettable
- Organic Thermal Pellet
- Metal Case
- Low Resistance
- RoHS & REACH Compliant

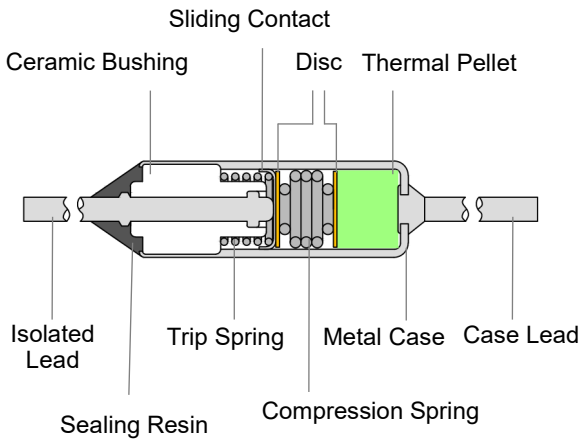
Applications

- Kitchen and Toilet Appliance
- Personal Care Appliance
- Environment Appliances
- Cleaning Appliances
- Electric Tool
- Office Equipment
- Automotive Electronics

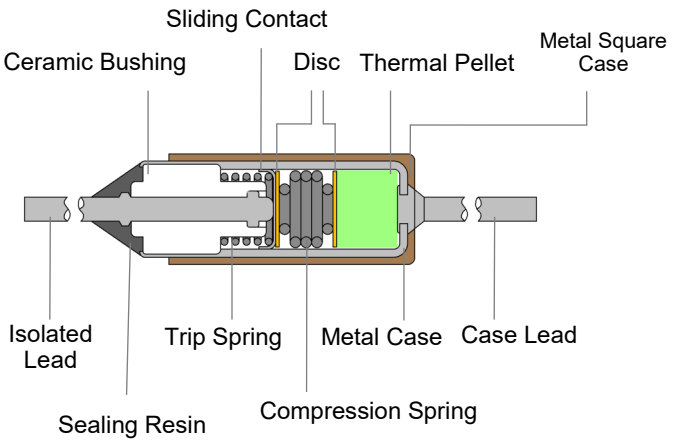
Customization

- Other Temp.
- The Length of Lead Wires
- Taping Packing Available
- Leads Forming Types

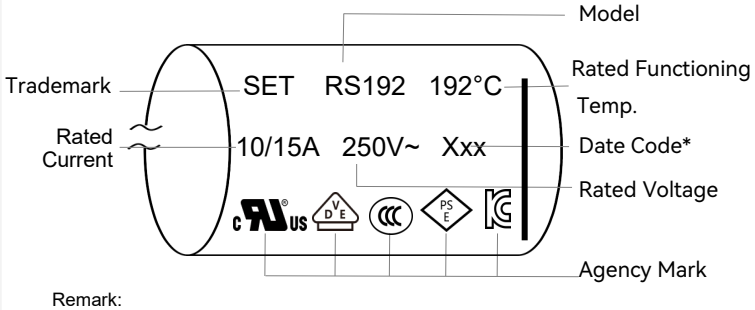
Cylindrical Structure Diagrams



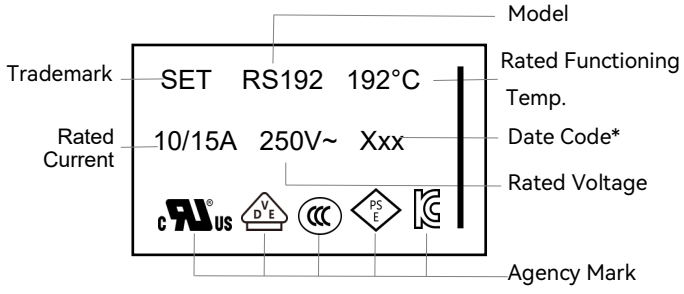
Square Structure Diagrams



Cylindrical Structure Marking



Square Structure Marking



Remark:

1: The Date Code means Year and quarter: A stands for 2000, B stands for 2001 and 01 stands for the first quarter, 02 stands for the second quarter，and so on.

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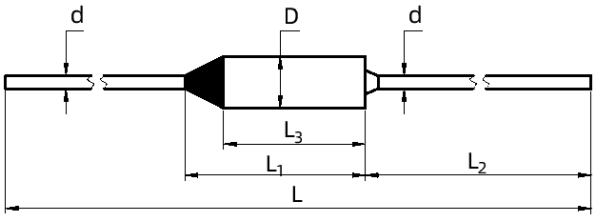
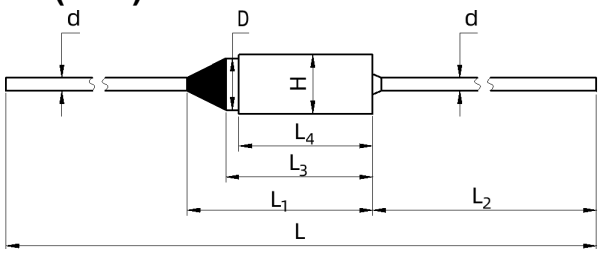
Cylindrical Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	D	d
Standard	65 ± 3	(14)	35 ± 2	(11.3)	Φ 4 ± 0.2	Φ 1 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.3)	Φ 4 ± 0.2	Φ 1 ± 0.1
Option	Customization	(14)	Customization	(11.3)	Φ 4 ± 0.2	Φ 1 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Square Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	L_4	D	H	d
Standard	65 ± 3	(14)	35 ± 2	(11.3)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.3)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1 ± 0.1
Option	Customization	(14)	Customization	(11.3)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Agency Information

Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe | SETfuse
	UL60691	E214712
	CAN-CSA-E60691	E214712
	EN60691	40052266
	J60691	JET2121-32001-2001、JET2121-32001-2002 JET2121-32001-2003、JET2121-32001-2004 JET2121-32001-2005、JET2121-32001-2006 JET2121-32001-2007、JET2121-32001-2008 JET2121-32001-2009、JET2121-32001-2010
	KC60691	SU05023-19001A、SU05023-19002A SU05023-19003B、SU05023-19004B SU05023-19005B
	GB/T 9816.1	2020980205000192
	EN60691	R507145000001

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Thermal-Link (OTCO)-Organic Type

RS Series I_r: 10 A/15 A

Specifications

Rated Functioning Temp. (T_f) °C

	Model	Fusing Temp.	T_h	T_h^* (UL/cUL)	T_h (SET measured value)	T_m	I_r	U_r	I_n	I_{max}	UL	cUL	VDE	TUV	PSE	KC	CCC	RoHS REACH
		(°C)	(°C)	(°C)	(°C)	(°C)	(A)	(VAC)	(kA)	(kA)	UL	cUL	VDE	TUV	PSE	KC	CCC	
275	RS275	271 ± 4	215	260	260	450	10 / 15	250	1.5	3	●	●	○	●	⊙	●	●	●
263	RS263	261 ± 2	205	225	225	480	10 / 15	250	1.5	3	●	●	○	●	⊙	●	●	RoHS● REACH *
257	RS257	254 ± 2	200	220	237	480	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
240	RS240	238 ± 2	200	205	220	450	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
229	RS229	227 ± 2	200	200	210	450	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
216	RS216	213 ± 2	186	200	203	450	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
205	RS205	203 ± 2	177	192	192	450	10 / 15	250	1.5	3	●	●	○	●	●	●	●	●
192	RS192	190 ± 2	162	177	179	300	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
184	RS184	181 ± 2	154	169	171	250	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
172	RS172	168 ± 2	143	157	159	260	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
167	RS167	164 ± 2	137	152	154	220	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
157	RS157	155 ± 2	129	144	144	450	10 / 15	250	1.5	3	●	●	○	●	●	●	●	●
152	RS152	149 ± 2	122	137	139	205	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
144	RS144	141 ± 2	114	129	131	300	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
134	RS134	131 ± 2	104	119	121	250	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
128	RS128	124 ± 2	98	113	115	200	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
121	RS121	118 ± 2	93	106	108	300	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
117	RS117	114 ± 2	88	102	104	200	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
110	RS110	108 ± 2	82	95	97	240	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
104	RS104	102 ± 2	74	89	91	250	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
99	RS99	95 ± 2	69	84	86	200	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
94	RS94	91 ± 2	64	79	81	300	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
84	RS84	82 ± 2	54	69	71	200	10 / 15	250	1.5	3	●	●	●	○	●	●	●	●
77	RS77	74 ± 2	50	62	64	300	10 / 15	250	1.5	3	●	●	●	○	●	○	●	●
72	RS72	69 ± 2	42	57	59	180	10 / 15	250	1.5	3	●	●	●	○	●	○	●	●

Note:

1. "●"Means certificated, "○"Means non-certificated, "⊙"Means Certification in progress, RoHS & REACH Compliant ." * " indicates that RS263 complies with REACH Directive 1907/2006/EC, SVHC Candidate List, Batch 29, Item 235 for most of the content (please consult SET for details).
2. For the T_h test, UL/CUL monitors the temperature of the product itself, while other standards monitor the ambient temperature inside the oven.
3. RS series with a T_f rating 175°C and above comply with UL conductive heat aging (CHAT) requirements.

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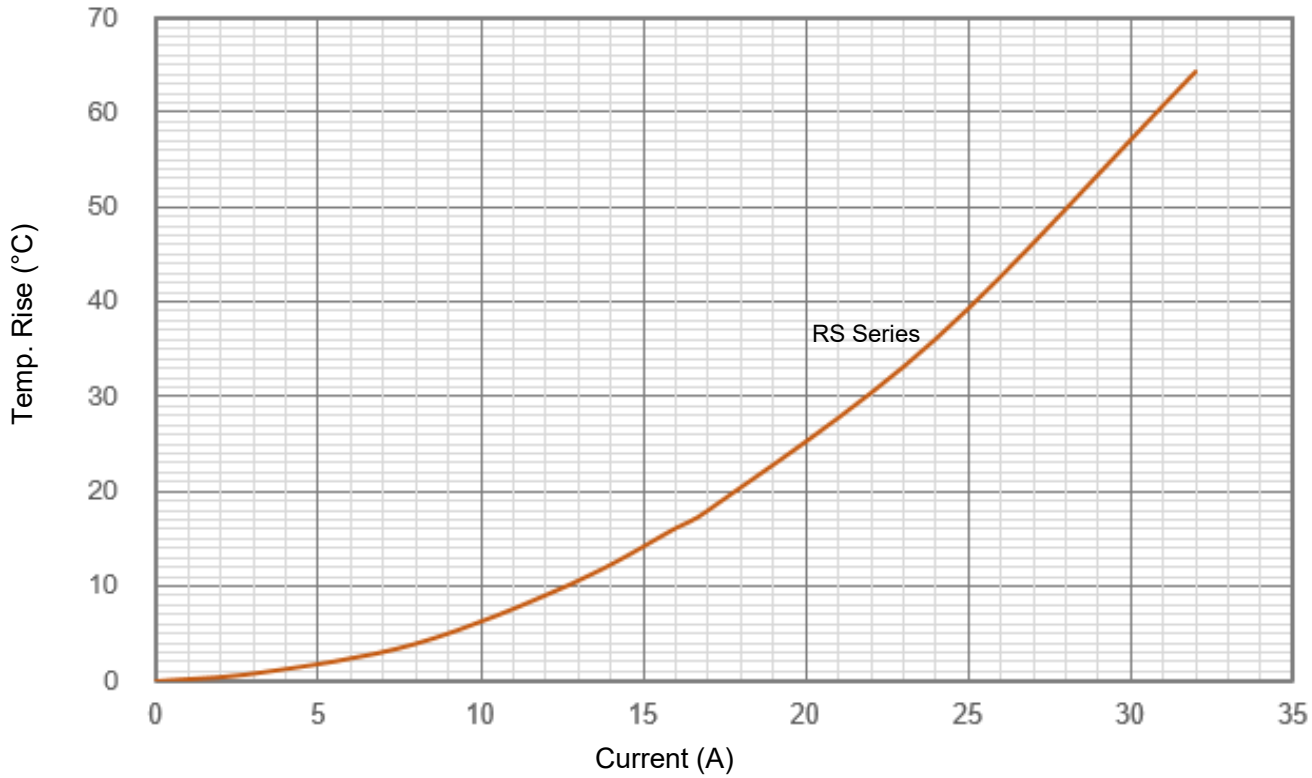
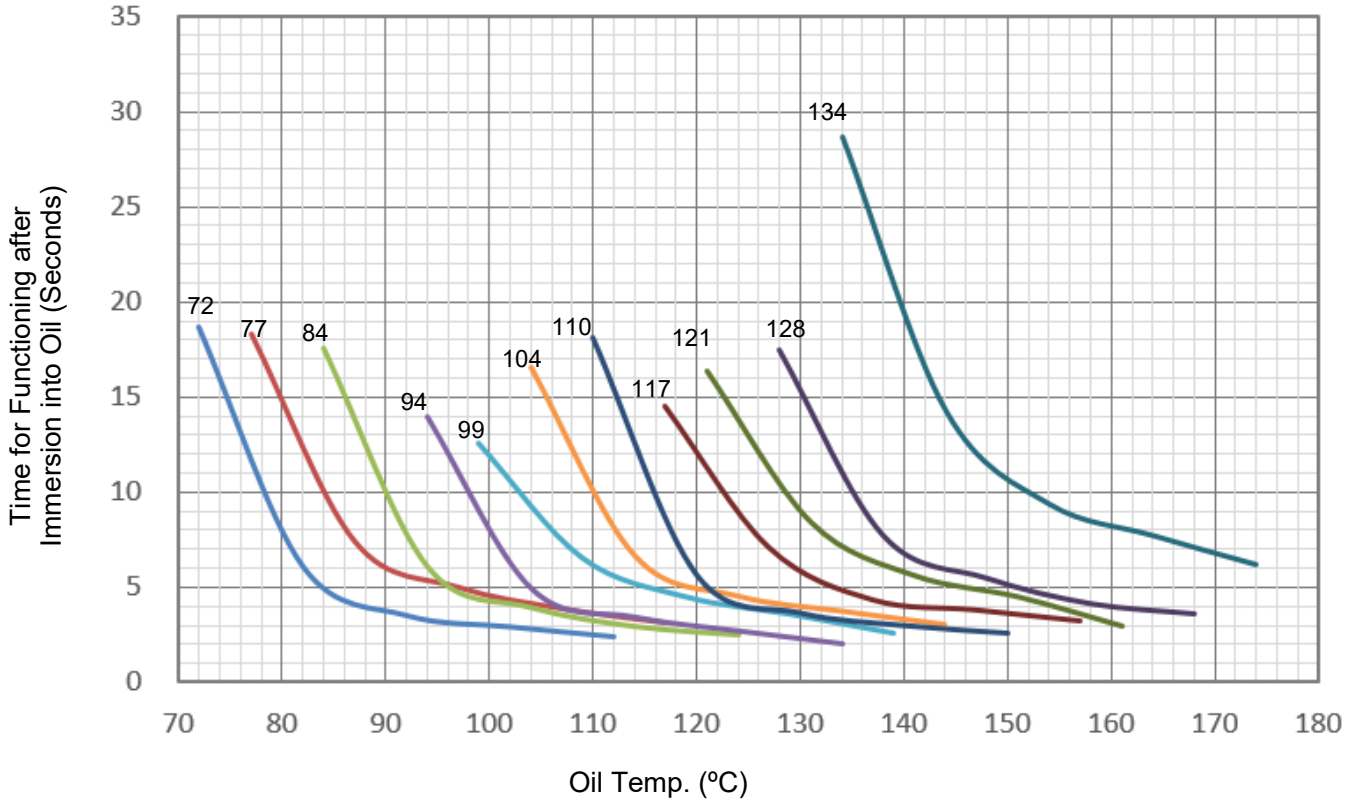
Temp. Rise (Reference)



Response Time (Reference)



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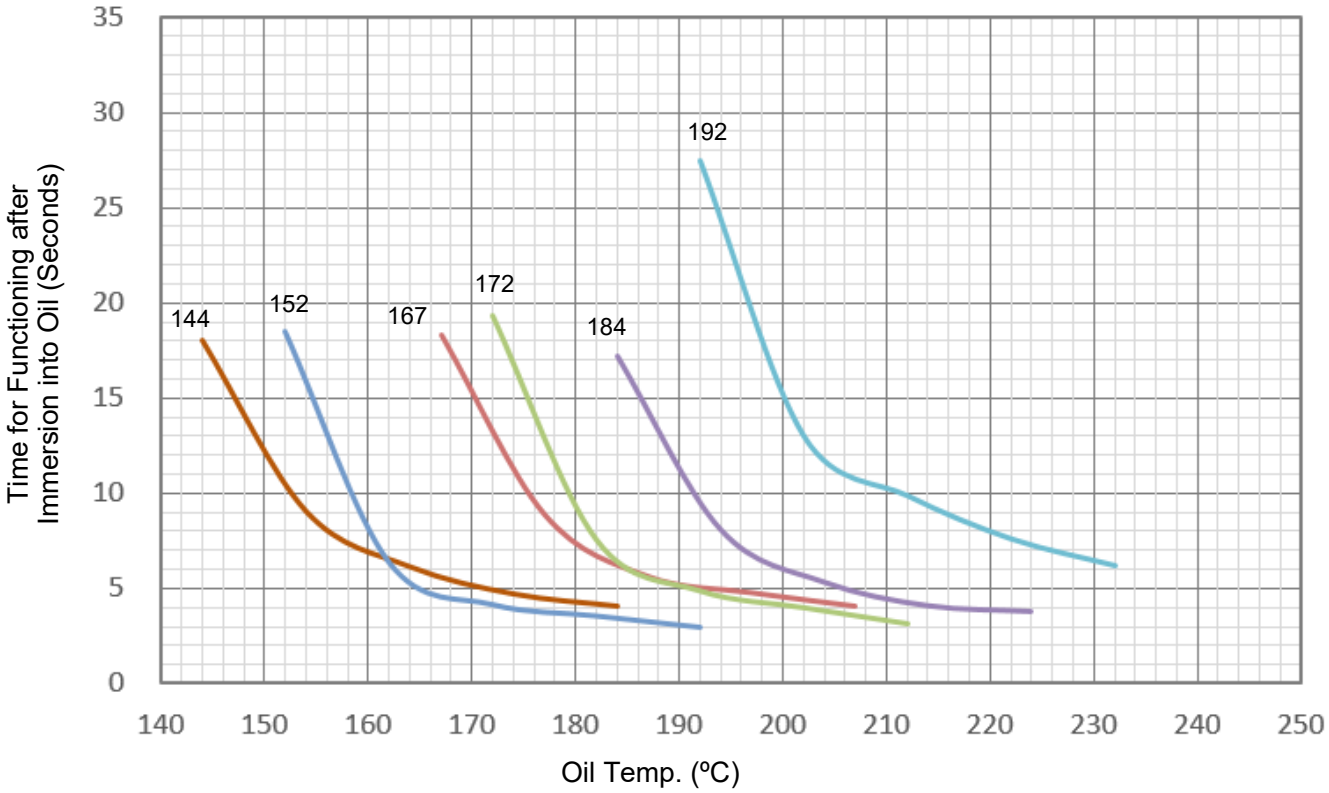

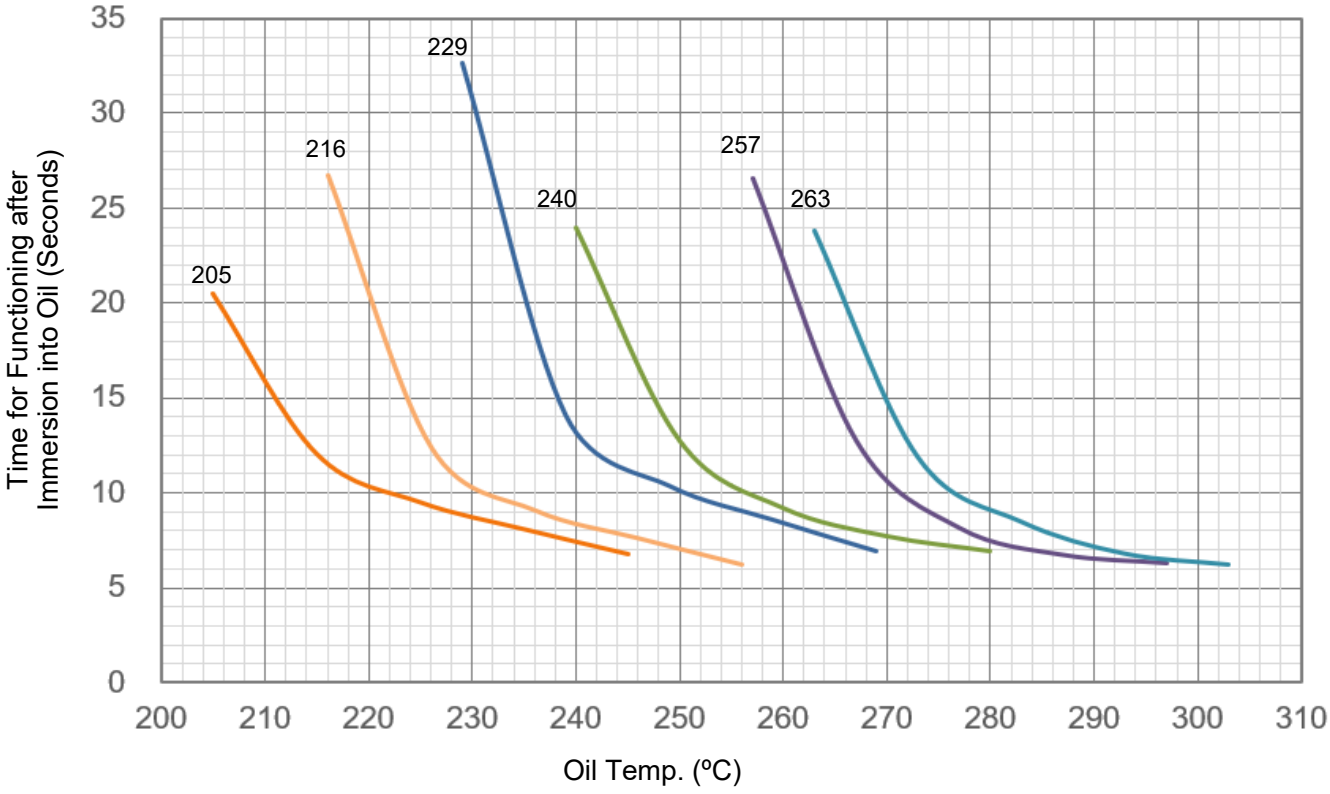

Note: The response time of 157/205/275/310 are testing, the temperature rise and response time testing of square products are continuously being updated. If you require any data, please consult SET.

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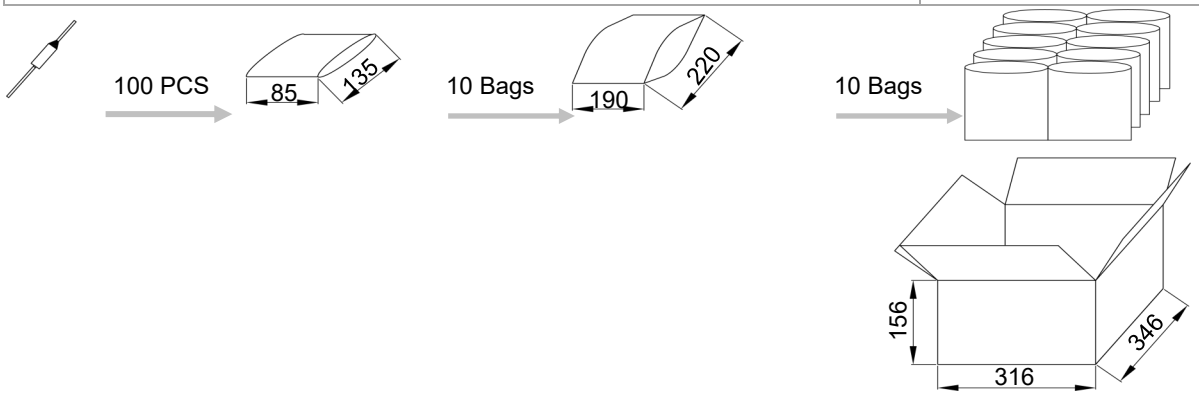
Packaging Information

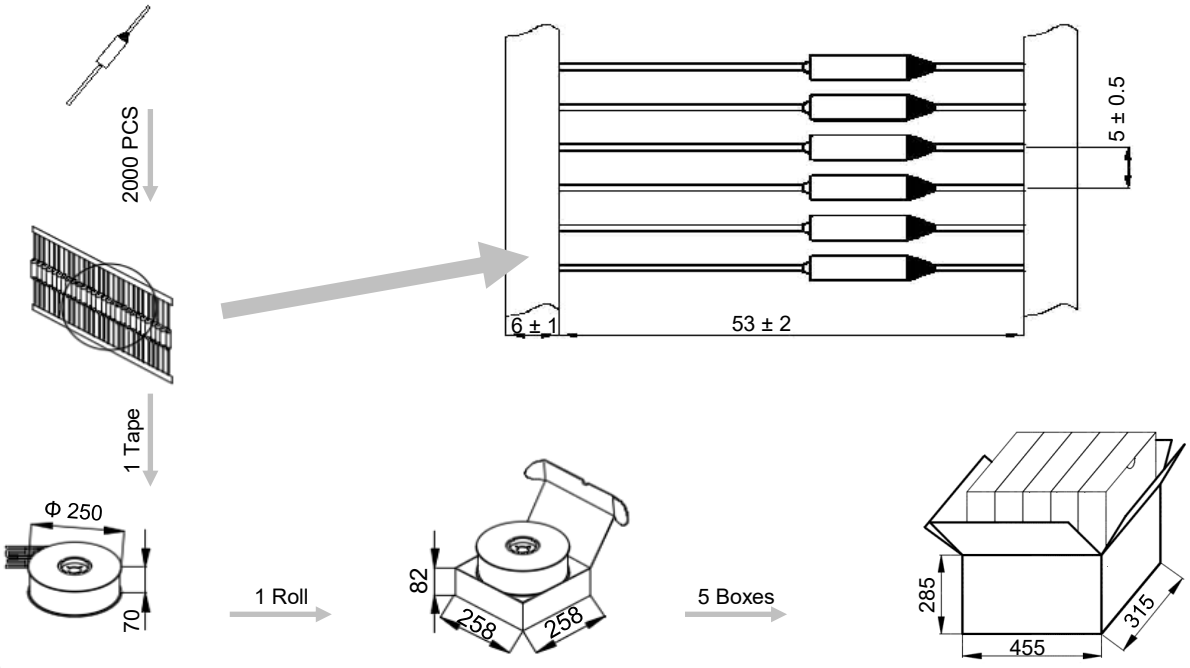
1.Bulk

Item	PE Bag	PE Bag	Carton
Dimensions (mm)	135 x 85	220 x 190	346 x 316 x 156
Quantity (PCS)	100	1000	10000
Gross Weight (kg)			Cylindrical: 11 ± 10% Square: 18 ± 10%



2.Taping

Item	**Scroll**	Box	Carton
Dimensions (mm)	Φ 250 x Φ 85 x 70	258 x 258 x 82	455 x 315 x 285
Quantity (PCS)	2000	2000	10000
Gross Weight (kg)			Cylindrical: 12.7 ± 10% Square: 19.7 ± 10%



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Part Numbering System

OTCO - RS 72 - L S A B - 001

Other Options

Packing

- B Bulk
- T Taping

Leads Forming

- A Straight Lead
- B Single Lead Bending
- C Leads Bending

Lead Length

- S Standard
- L Long
- O Option

Process of Mark

- L Laser

Rated Functioning Temp.

- 72 72 °C, See Specifications

Series

- RS Series See Specifications

Product Category

- OTCO Organic Thermal-Link

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Thermal-Link (OTCO)-Organic Type

RT Series I_r: 16 A

Description

Organic Thermal-Link (OTCO) RT series is defined as a non-resettable protective device, functioning one time only. It mainly consists of metal case, spring, sliding contact and thermal pellet. When the Thermal-Link senses abnormal heat and temp. reaches the predetermined fusing temp., thermal pellet melts and the sliding contact separates from the isolated lead with the assistance of the trip spring, thereby the circuit is disconnected

SETsafe | SETfuse Organic Thermal-Link (OTCO) RT series Rated Functioning Temp. from 72 ℃ to 275 ℃, Rated Current: 16 A, Rated Voltage: 250VAC, safety certification Includes UL, cUL, PSE, VDE, KC, CCC, TUV, and complies with RoHS and REACH.

Features

- High Accuracy of Functioning Temp.
- Non-Resettable
- Organic Thermal Pellet
- Metal Case
- Low Resistance
- RoHS & REACH Compliant

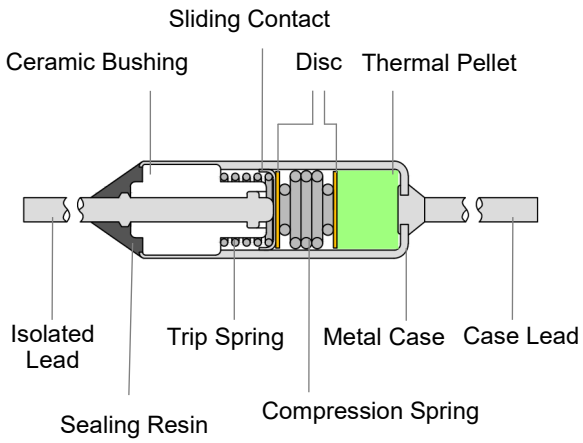
Applications

- Kitchen and Toilet Appliance
- Personal Care Appliance
- Environment Appliances
- Cleaning Appliances
- Electric Tool
- Office Equipment
- Automotive Electronics

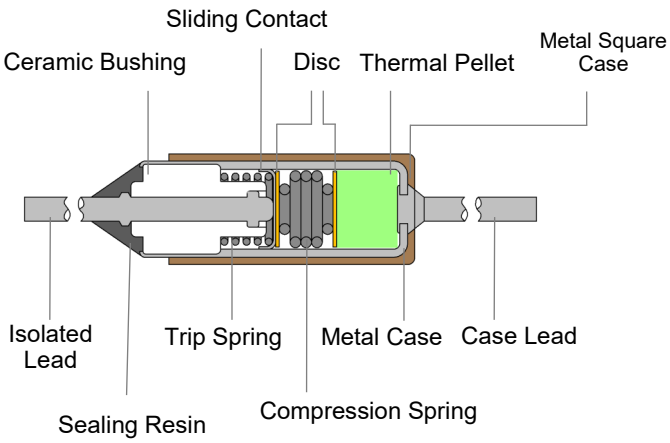
Customization

- Other Temp.
- The Length of Lead Wires
- Taping Packing Available
- Leads Forming Types

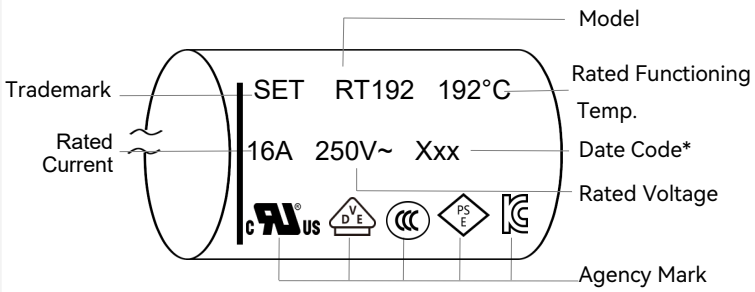
Cylindrical Structure Diagrams



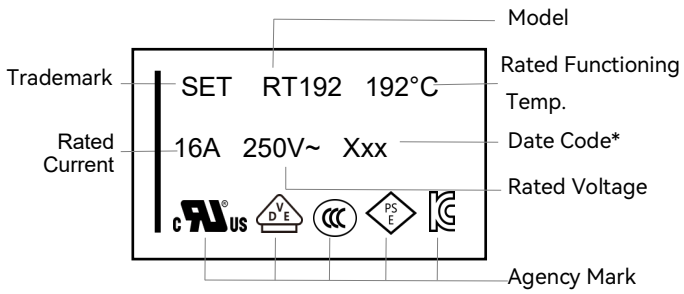
Square Structure Diagrams



Cylindrical Structure Marking



Square Structure Marking



Remark:

1: The Date Code means Year and quarter: A stands for 2000, B stands for 2001 and 01 stands for the first quarter, 02 stands for the second quarter, and so on.

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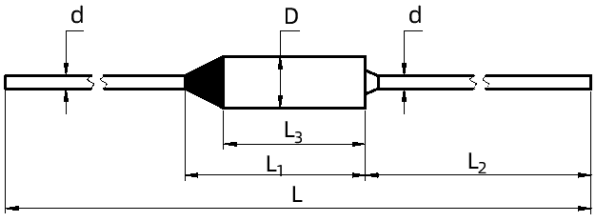
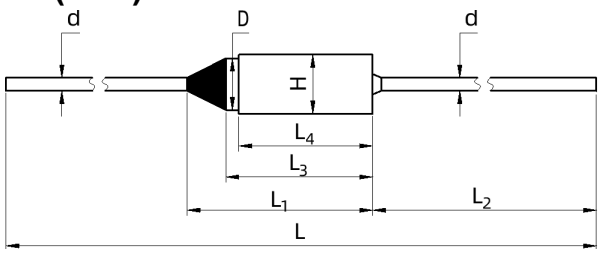
Cylindrical Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	D	d
Standard	65 ± 3	(14)	35 ± 2	(11.3)	Φ 4 ± 0.2	Φ 1 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.3)	Φ 4 ± 0.2	Φ 1 ± 0.1
Option	Customization	(14)	Customization	(11.3)	Φ 4 ± 0.2	Φ 1 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Square Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	L_4	D	H	d
Standard	65 ± 3	(14)	35 ± 2	(11.3)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.3)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1 ± 0.1
Option	Customization	(14)	Customization	(11.3)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Agency Information

Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe | SETfuse
	UL60691	E214712
	CAN-CSA-E60691	E214712
	EN60691	40052266
	J60691	JET2121-32001-2011、JET2121-32001-2012 JET2121-32001-2013、JET2121-32001-2014 JET2121-32001-2015、JET2121-32001-2016 JET2121-32001-2017、JET2121-32001-2018 JET2121-32001-2019、JET2121-32001-2020
	KC60691	SU05023-19001A、SU05023-19002A SU05023-19003B、SU05023-19004B SU05023-19005B
	GB/T 9816.1	2020980205000192
	EN60691	R507145000001

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Specifications

Rated Functioning Temp. (T_f) °C

	Model	Fusing Temp.	T_h	T_h^* (UL/ cUL)	T_h (SET measured value)	T_m	I_r	U_r	I_n	I_{max}	UL	cUL	VDE	TUV	PSE	KC	CCC	RoHS REACH
		(°C)	(°C)	(°C)	(°C)	(°C)	(A)	(VAC)	(kA)	(kA)	UL	cUL	VDE	TUV	PSE	KC	CCC	
275	RT275	271 ± 4	215	260	260	450	16	250	1.5	3	●	●	○	●	⊙	●	●	●
263	RT263	261 ± 2	205	225	225	480	16	250	1.5	3	●	●	○	●	⊙	●	●	RoHS● REACH *
257	RT257	254 ± 2	200	220	237	480	16	250	1.5	3	●	●	●	○	●	●	●	●
240	RT240	238 ± 2	200	205	220	450	16	250	1.5	3	●	●	●	○	●	●	●	●
229	RT229	227 ± 2	200	200	210	450	16	250	1.5	3	●	●	●	○	●	●	●	●
216	RT216	213 ± 2	186	200	203	450	16	250	1.5	3	●	●	●	○	●	●	●	●
205	RT205	203 ± 2	177	192	192	450	16	250	1.5	3	●	●	○	●	●	●	●	●
192	RT192	190 ± 2	162	177	179	300	16	250	1.5	3	●	●	●	○	●	●	●	●
184	RT184	181 ± 2	154	169	171	250	16	250	1.5	3	●	●	●	○	●	●	●	●
172	RT172	168 ± 2	143	157	159	260	16	250	1.5	3	●	●	●	○	●	●	●	●
167	RT167	164 ± 2	137	152	154	220	16	250	1.5	3	●	●	●	○	●	●	●	●
157	RT157	155 ± 2	129	144	144	450	16	250	1.5	3	●	●	○	●	●	●	●	●
152	RT152	149 ± 2	122	137	139	205	16	250	1.5	3	●	●	●	○	●	●	●	●
144	RT144	141 ± 2	114	129	131	300	16	250	1.5	3	●	●	●	○	●	●	●	●
134	RT134	131 ± 2	104	119	121	250	16	250	1.5	3	●	●	●	○	●	●	●	●
128	RT128	124 ± 2	98	113	115	200	16	250	1.5	3	●	●	●	○	●	●	●	●
121	RT121	118 ± 2	93	106	108	300	16	250	1.5	3	●	●	●	○	●	●	●	●
117	RT117	114 ± 2	88	102	104	200	16	250	1.5	3	●	●	●	○	●	●	●	●
110	RT110	108 ± 2	82	95	97	240	16	250	1.5	3	●	●	●	○	●	●	●	●
104	RT104	102 ± 2	74	89	91	250	16	250	1.5	3	●	●	●	○	●	●	●	●
99	RT99	95 ± 2	69	84	86	200	16	250	1.5	3	●	●	●	○	●	●	●	●
94	RT94	91 ± 2	64	79	81	300	16	250	1.5	3	●	●	●	○	●	●	●	●
84	RT84	82 ± 2	54	69	71	200	16	250	1.5	3	●	●	●	○	●	●	●	●
77	RT77	74 ± 2	50	62	64	300	16	250	1.5	3	●	●	●	○	●	○	●	●
72	RT72	69 ± 2	42	57	59	180	16	250	1.5	3	●	●	●	○	●	○	●	●

Note:

1. "●"Means certificated, "○"Means non-certificated, RoHS & REACH Compliant ." * " indicates that RT263 complies with REACH Directive 1907/2006/EC, SVHC Candidate List, Batch 29, Item 235 for most of the content (please consult SET for details).
2. For T_h test, UL / cUL standard recommends the thermocouples to monitor the temp. of OTCO body, while other standards recommend the thermocouples to monitor the environment temp. in the oven.
3. RT series with a T_f rating 175°C and above comply with UL conductive heat aging (CHAT) requirements.

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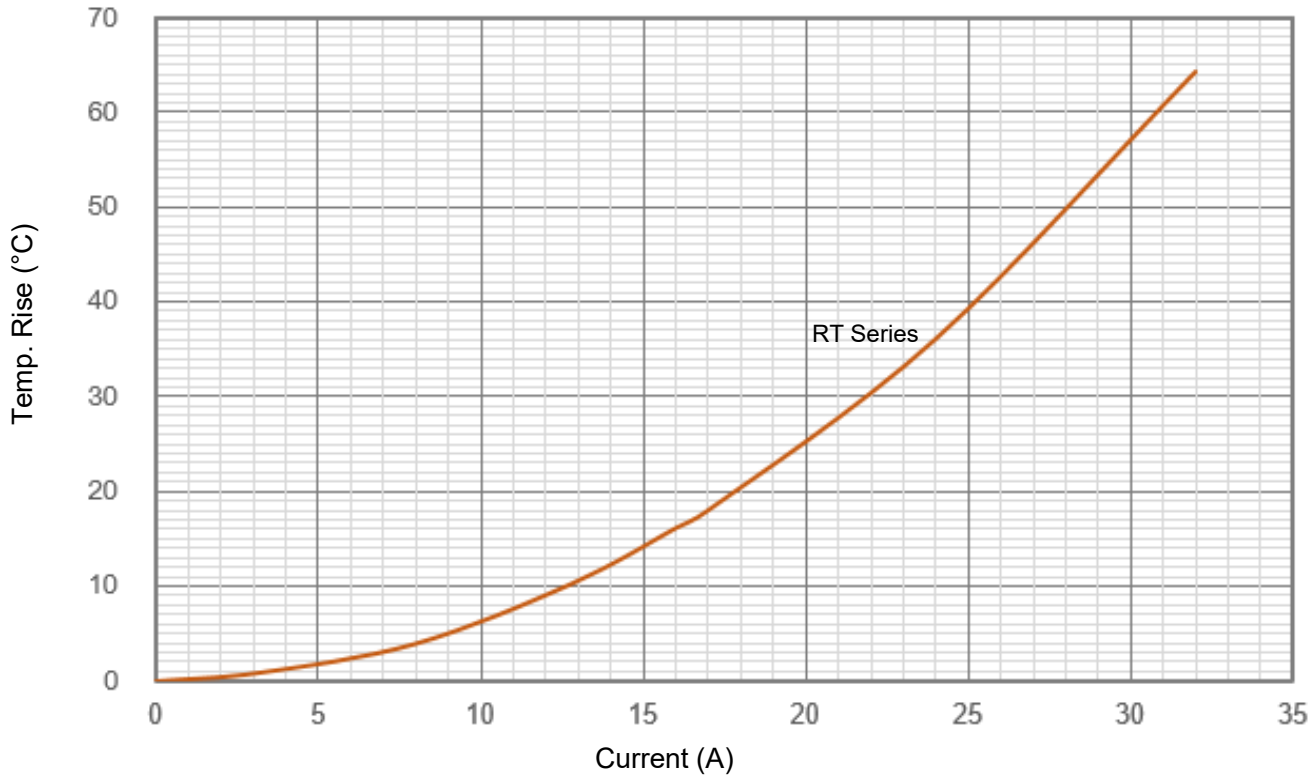
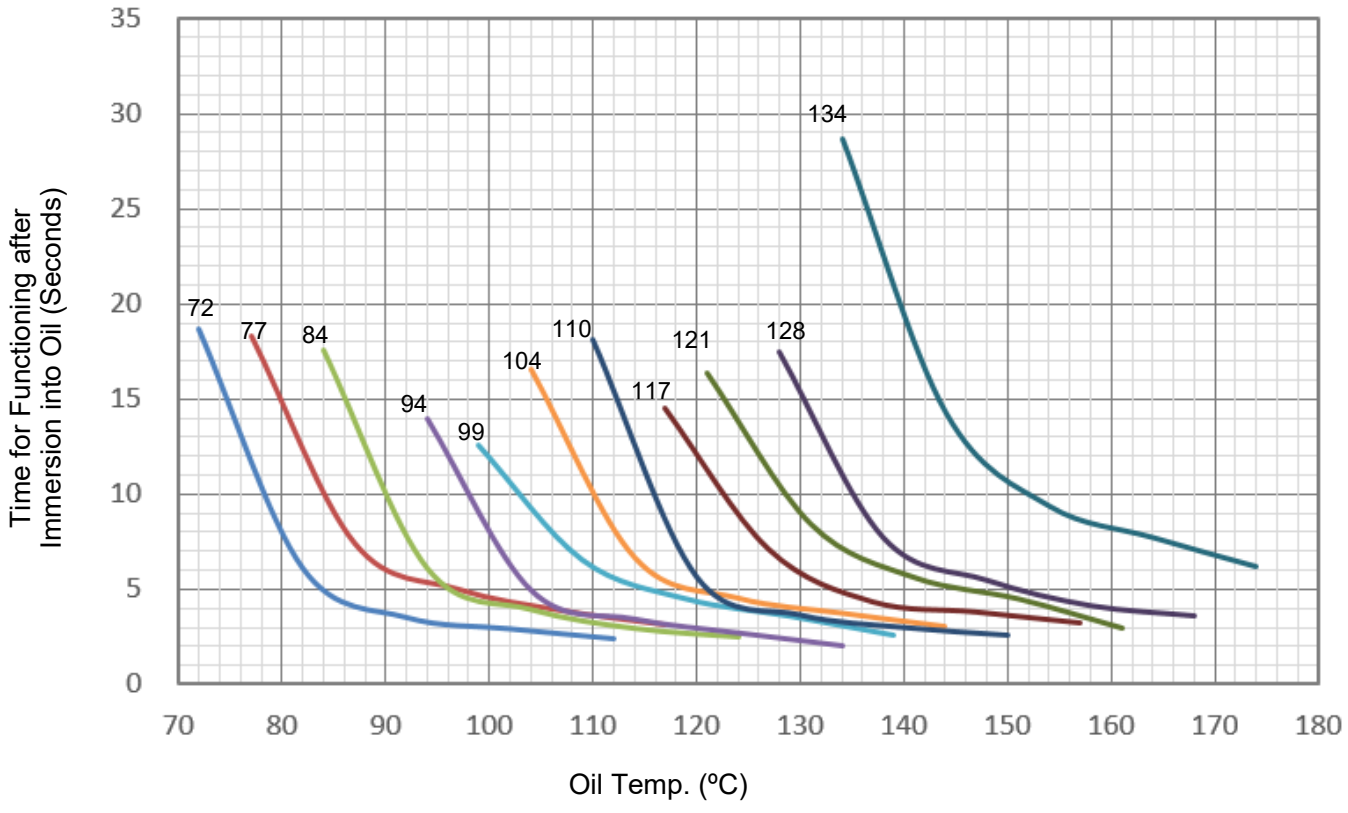
Temp. Rise (Reference)



Response Time (Reference)



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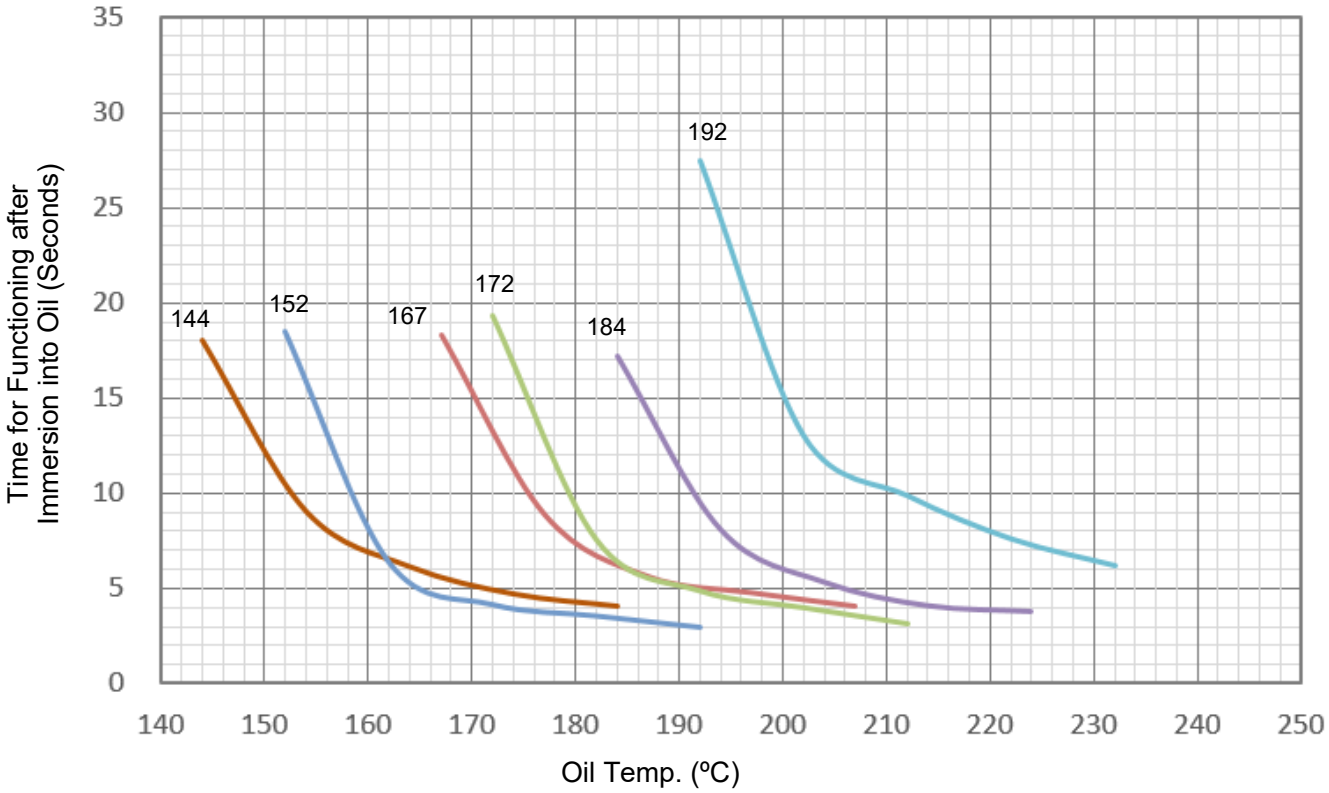

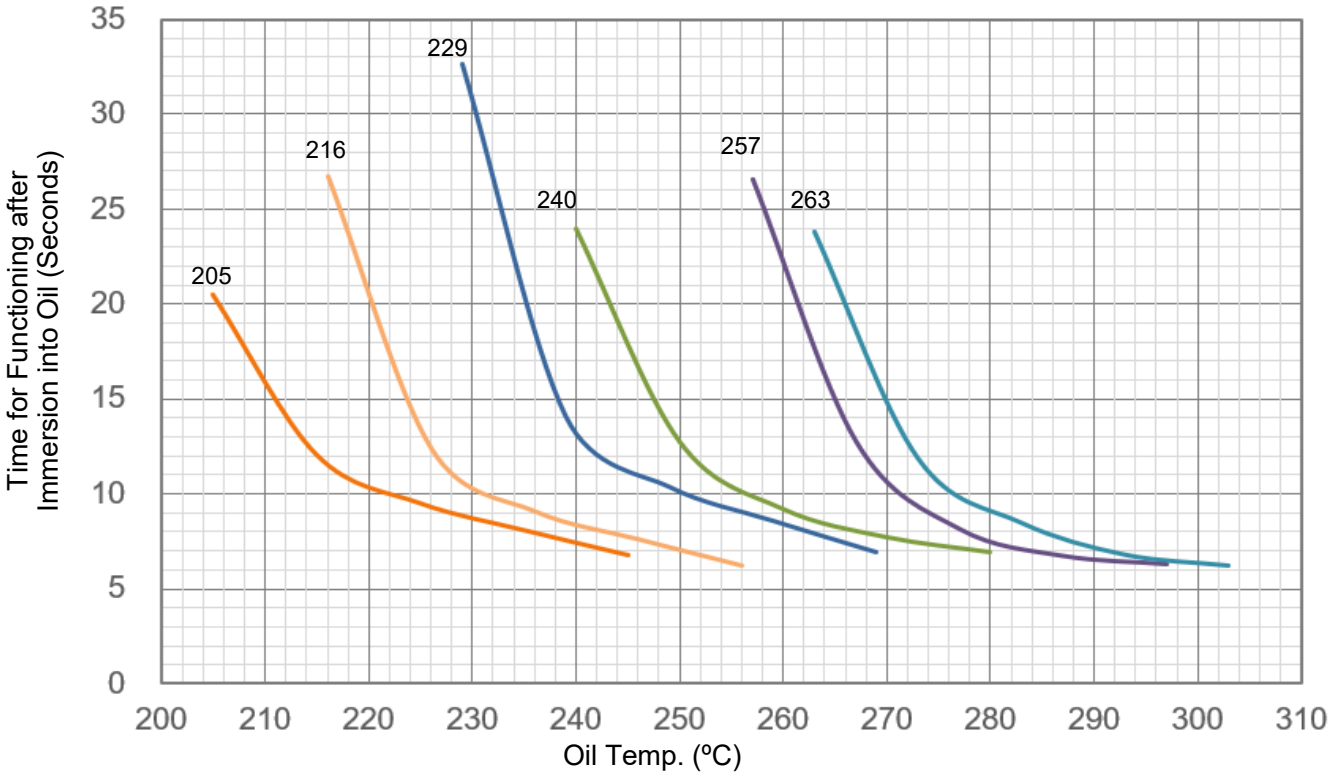

Note: The response time of 157/205/275/310 are testing, the temperature rise and response time testing of square products are continuously being updated. If you require any data, please consult SET.

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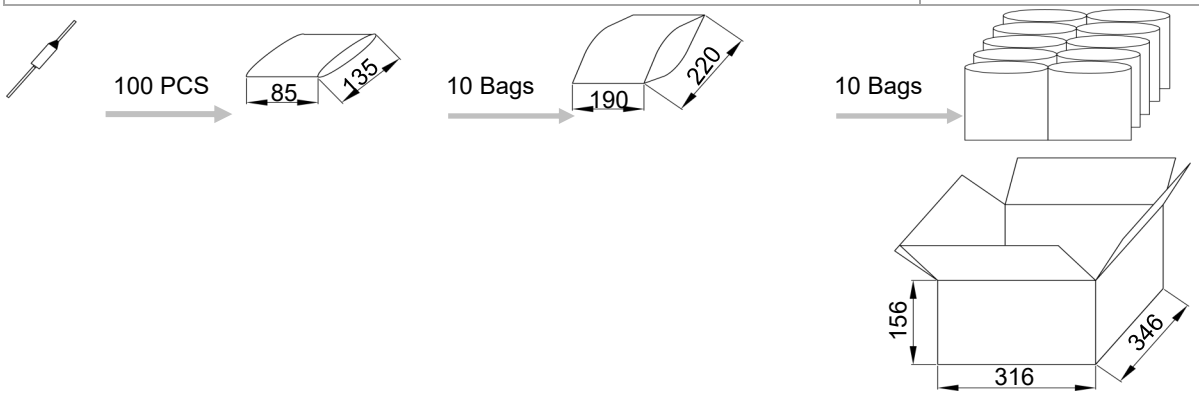
Packaging Information

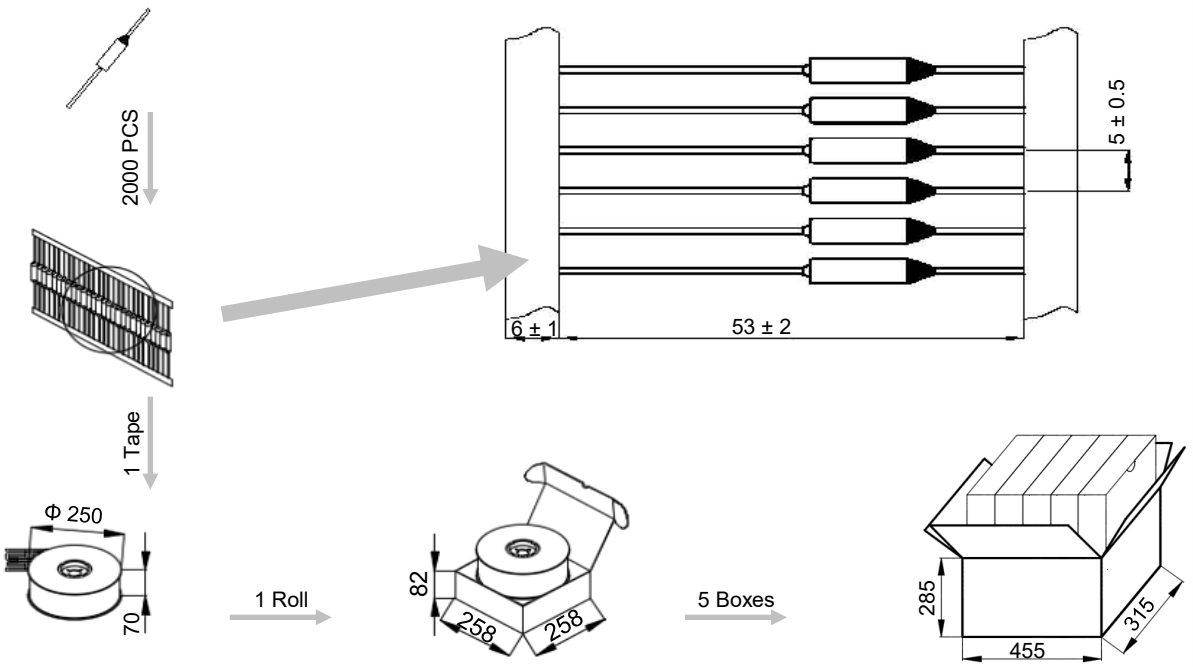
1.Bulk

Item	PE Bag	PE Bag	Carton
Dimensions (mm)	135 x 85	220 x 190	346 x 316 x 156
Quantity (PCS)	100	1000	10000
Gross Weight (kg)			Cylindrical: 11 ± 10% Square: 18 ± 10%



2.Taping

Item	**Scroll**	Box	Carton
Dimensions (mm)	Φ 250 x Φ 85 x 70	258 x 258 x 82	455 x 315 x 285
Quantity (PCS)	2000	2000	10000
Gross Weight (kg)			Cylindrical: 12.7 ± 10% Square: 19.7 ± 10%



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Part Numbering System

OTCO - RT 72 - L S A B - 001

Other Options

Packing

B	Bulk
T	Taping

Leads Forming

A	Straight Lead
B	Single Lead Bending
C	Leads Bending

Lead Length

S	Standard
L	Long
O	Option

Process of Mark

L	Laser

Rated Functioning Temp.

72	72 °C, See Specifications

Series

RT	Series See Specifications

Product Category

OTCO	Organic Thermal-Link

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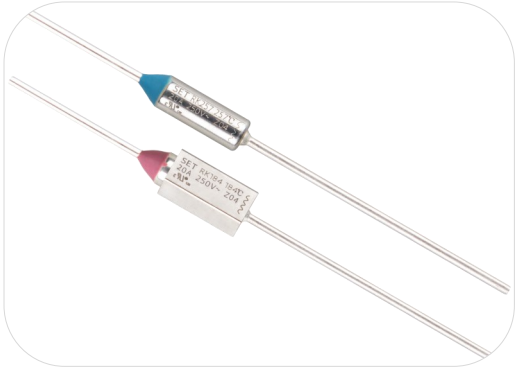
Thermal-Link (OTCO)-Organic Type

RK Series /: 20A



Description

Organic Thermal-Link (OTCO) RK series is defined as a non-resettable protective device, functioning one time only. It mainly consists of metal case, spring, conductive nail, sliding contact and thermal pellet. When the Thermal-Link senses abnormal heat and temp. reaches the predetermined fusing temp., thermal pellet melts and the conductive nail separates from the isolated lead with the assistance of the trip spring, thereby the circuit is disconnected.

SETsafe | SETfuse Organic Thermal-Link (OTCO) RK series Rated Functioning Temp. from 72 ℃ to 275 ℃, Rated Current: 20 A, Rated Voltage: 250VAC, safety certification Includes UL, cUL, TUV, PSE, and complies with RoHS and REACH.

Features

- High Accuracy of Functioning Temp.
- Non-Resettable
- Organic Thermal Pellet
- Metal Case
- Low Resistance
- RoHS & REACH Compliant

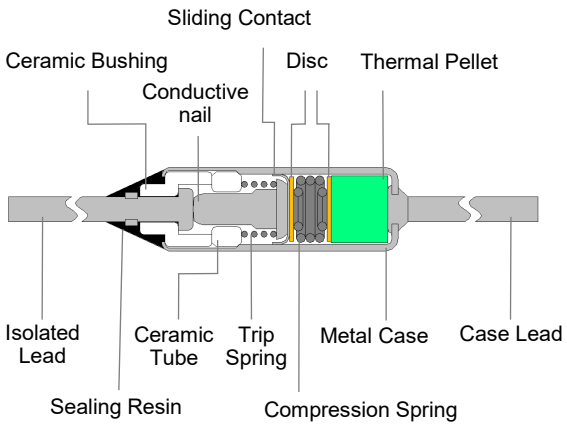
Applications

- Kitchen and Toilet Appliance
- Environment Appliances
- Cleaning Appliances
- Electric Tool
- Automotive Electronics
- Office Equipment
- Motor

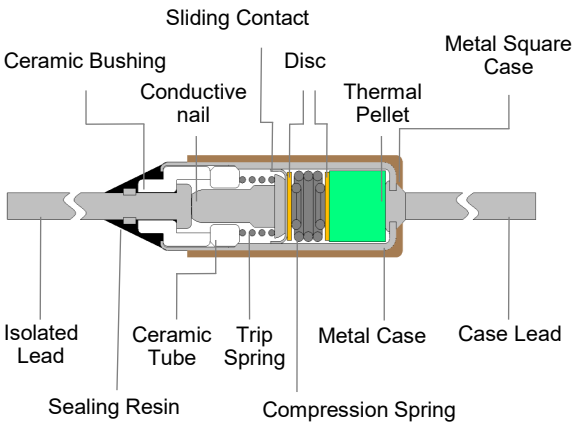
Customization

- Other Temp.
- The Length of Lead Wires
- Taping Packing Available
- Leads Forming Types

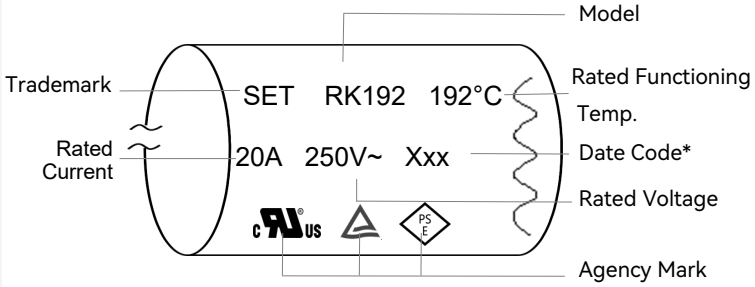
Cylindrical Structure Diagrams



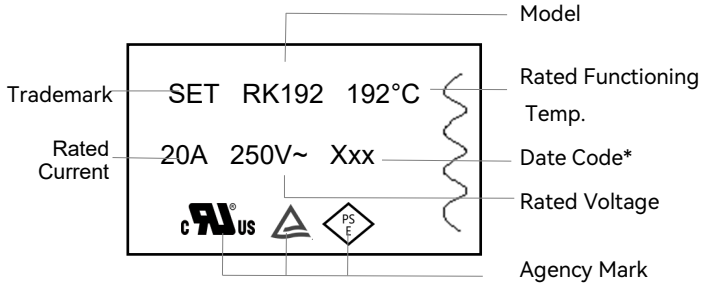
Square Structure Diagrams



Cylindrical Structure Marking



Square Structure Marking



Remark:

1: The Date Code means Year and quarter: A stands for 2000, B stands for 2001 and 01 stands for the first quarter, 02 stands for the second quarter, and so on.

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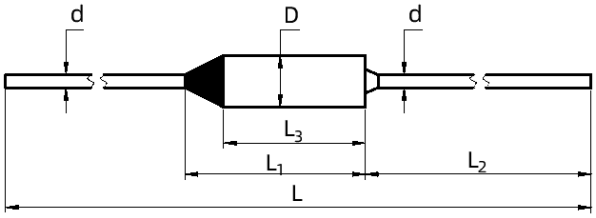
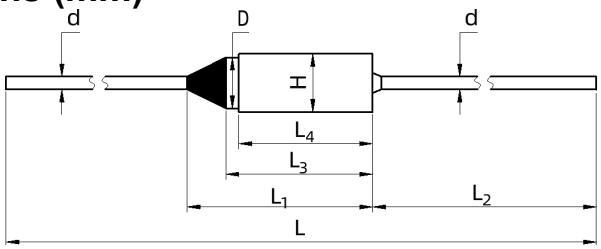
Cylindrical Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	D	d
Standard	65 ± 3	(14)	35 ± 2	(11.5)	Φ 4 ± 0.2	Φ 1.2 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.5)	Φ 4 ± 0.2	Φ 1.2 ± 0.1
Option	Customization	(14)	Customization	(11.5)	Φ 4 ± 0.2	Φ 1.2 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Square Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	L_4	D	H	d
Standard	65 ± 3	(14)	35 ± 2	(11.5)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1.2 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.5)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1.2 ± 0.1
Option	Customization	(14)	Customization	(11.5)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1.2 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Agency Information

Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe | SETfuse
	UL60691	E214712
	CAN-CSA-E60691	E214712
	EN60691	R507153440001
	J60691	JET2121-32001-2011、JET2121-32001-2012 JET2121-32001-2013、JET2121-32001-2014 JET2121-32001-2015、JET2121-32001-2016 JET2121-32001-2017、JET2121-32001-2018 JET2121-32001-2019、JET2121-32001-2020

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Thermal-Link (OTCO)-Organic Type

RK Series I_r: 20A

Specifications

Rated Functioning Temp. (T_f) °C

	Model	Fusing Temp.	T_h	T_h^* (UL/cUL)	T_m	I_r	U_r	UL	cUL	TUV	PSE	KC	CCC	RoHS REACH
		(°C)	(°C)	(°C)	(°C)	(A)	(VAC)	UL	cUL	TUV	PSE	KC	CCC	
275	RK275	271 ± 4	215	260	450	20	250	●	●	●	⊙	⊙	⊙	●
263	RK263	261 ± 2	185	225	500	20	250	○	○	○	⊙	⊙	⊙	RoHS● REACH *
257	RK257	254 ± 2	197	237	500	20	250	●	●	●	●	⊙	⊙	●
240	RK240	238 ± 2	180	220	500	20	250	●	●	●	●	⊙	⊙	●
229	RK229	227 ± 2	176	210	500	20	250	○	○	○	●	⊙	⊙	●
216	RK216	213 ± 2	163	203	500	20	250	●	●	●	●	⊙	⊙	●
205	RK205	203 ± 2	152	192	500	20	250	○	○	○	●	⊙	⊙	●
192	RK192	190 ± 2	139	179	500	20	250	●	●	●	●	⊙	⊙	●
184	RK184	181 ± 2	131	171	500	20	250	●	●	●	●	⊙	⊙	●
172	RK172	168 ± 2	119	159	500	20	250	○	○	○	●	⊙	⊙	●
167	RK167	164 ± 2	114	154	500	20	250	●	●	●	●	⊙	⊙	●
157	RK157	155 ± 2	104	144	500	20	250	●	●	●	●	⊙	⊙	●
152	RK152	149 ± 2	99	139	500	20	250	●	●	●	●	⊙	⊙	●
144	RK144	141 ± 2	91	131	500	20	250	●	●	●	●	⊙	⊙	●
134	RK134	131 ± 2	81	121	500	20	250	●	●	●	●	⊙	⊙	●
128	RK128	124 ± 2	75	115	500	20	250	●	●	●	●	⊙	⊙	●
121	RK121	118 ± 2	68	108	500	20	250	●	●	●	●	⊙	⊙	●
117	RK117	114 ± 2	64	104	500	20	250	○	○	○	●	⊙	⊙	●
110	RK110	108 ± 2	57	97	500	20	250	●	●	●	●	⊙	⊙	●
104	RK104	102 ± 2	51	91	500	20	250	○	○	○	●	⊙	⊙	●
98	RK98	95 ± 2	45	85	500	20	250	●	●	●	●	⊙	⊙	●
94	RK94	91 ± 2	41	81	500	20	250	○	○	○	●	⊙	⊙	●
84	RK84	82 ± 2	N/A	71	500	20	250	○	○	○	●	○	○	●
77	RK77	74 ± 2	N/A	64	500	20	250	●	●	○	●	○	○	●
72	RK72	69 ± 2	N/A	59	500	20	250	○	○	○	●	○	○	●

Note:

1. "●"Means certificated, "○"Means non-certificated, "⊙"Means Certification in progress, RoHS & REACH Compliant ." * " indicates that RK263 complies with REACH Directive 1907/2006/EC, SVHC Candidate List, Batch 29, Item 235 for most of the content (please consult SET for details).
2. For the T_h test, UL/cUL monitors the temperature of the product itself, while other standards monitor the ambient temperature inside the oven.
3. RK series with a T_f rating 175°C and above comply with UL conductive heat aging (CHAT) requirements.

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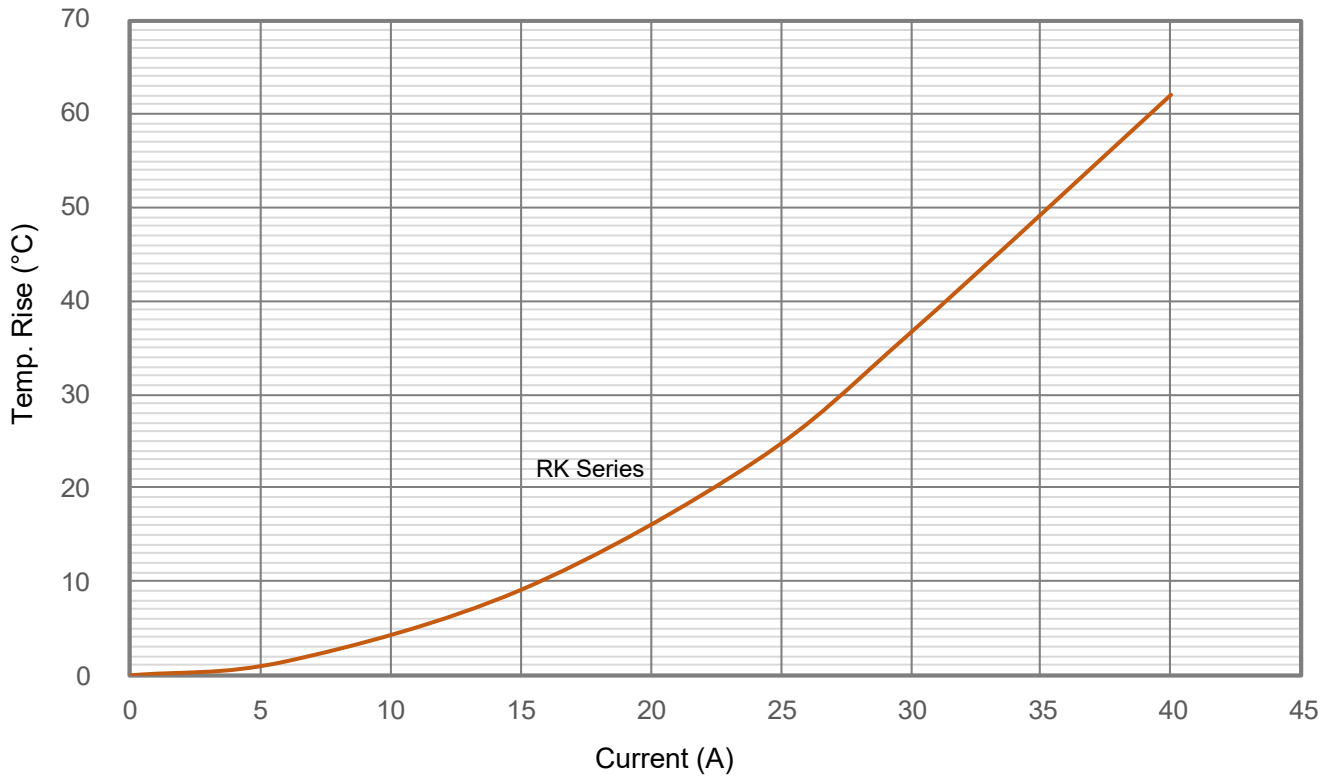
Temp. Rise (Reference)



Note: The temperature rise test for square products is continuously updated. If you need data, please consult SET.

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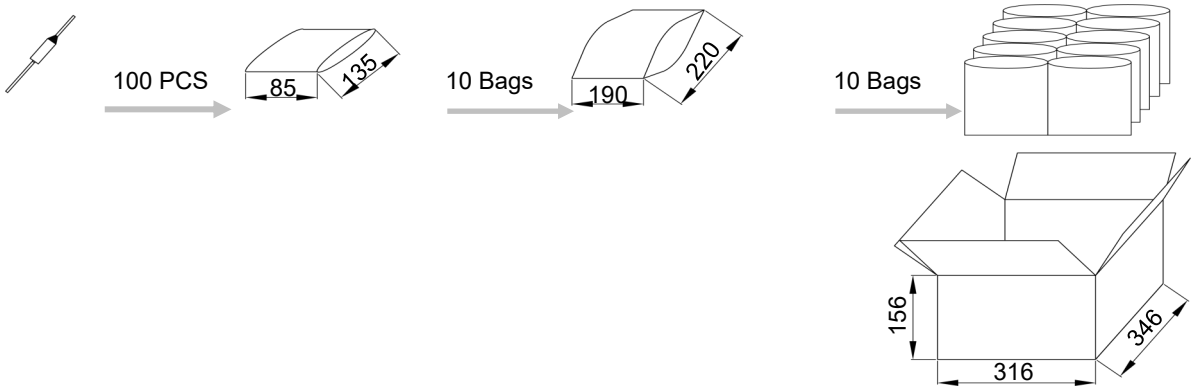
Packaging Information

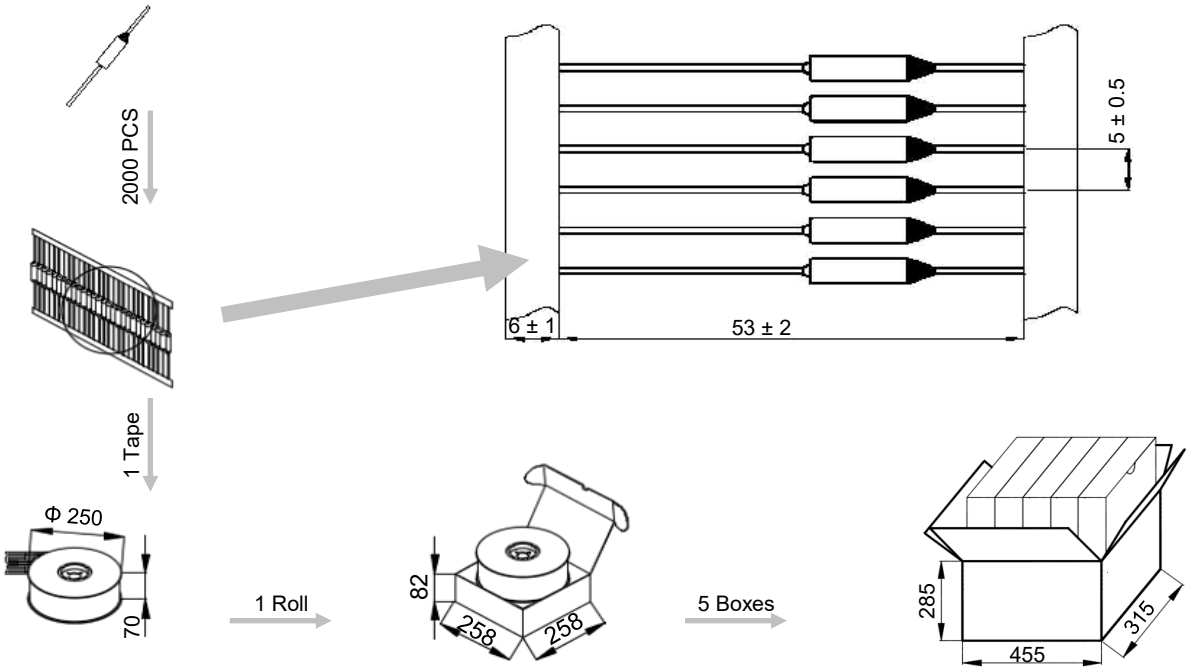
1.Bulk

Item	PE Bag	PE Bag	Carton
Dimensions (mm)	135 x 85	220 x 190	346 x 316 x 156
Quantity (PCS)	100	1000	10000
Gross Weight (kg)			Cylindrical: 13.3 ± 10% Square: 20.3 ± 10%



2.Taping

Item	**Scroll**	Box	Carton
Dimensions (mm)	Φ 250 x Φ 85 x 70	258 x 258 x 82	455 x 315 x 285
Quantity (PCS)	2000	2000	10000
Gross Weight (kg)			Cylindrical: 15.0 ± 10% Square: 22.0 ± 10%



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Part Numbering System

OTCO - RK 72 - L S A B - 001

Other Options

Packing

B	Bulk
T	Taping

Leads Forming

A	Straight Lead
B	Single Lead Bending
C	Leads Bending

Lead Length

S	Standard
L	Long
O	Option

Process of Mark

L	Laser

Rated Functioning Temp.

72	72 °C, See Specifications

Series

RK	Series See Specifications

Product Category

OTCO	Organic Thermal-Link

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Thermal-Link (OTCO)-Organic Type

RU Series /: 25A

Description

Organic Thermal-Link (OTCO) RU series is defined as a non-resettable protective device, functioning one time only. It mainly consists of metal case, spring, conductive nail, sliding contact and thermal pellet. When the Thermal-Link senses abnormal heat and temp. reaches the predetermined fusing temp., thermal pellet melts and the conductive nail separates from the isolated lead with the assistance of the trip spring, thereby the circuit is disconnected.

SETsafe | SETfuse Organic Thermal-Link (OTCO) RU series Rated Functioning Temp. from 72 ℃ to 275 ℃, Rated Current: 25 A, Rated Voltage: 250VAC, safety certification Includes UL, cUL, TUV, PSE, and complies with RoHS and REACH.

Features

- High Accuracy of Functioning Temp.
- Non-Resettable
- Organic Thermal Pellet
- Metal Case
- Low Resistance
- RoHS & REACH Compliant

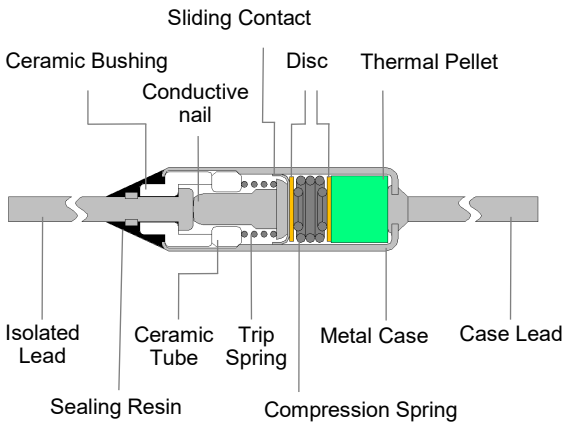
Applications

- High Power Home Appliances
- Commercial Appliances
- Automobile Field

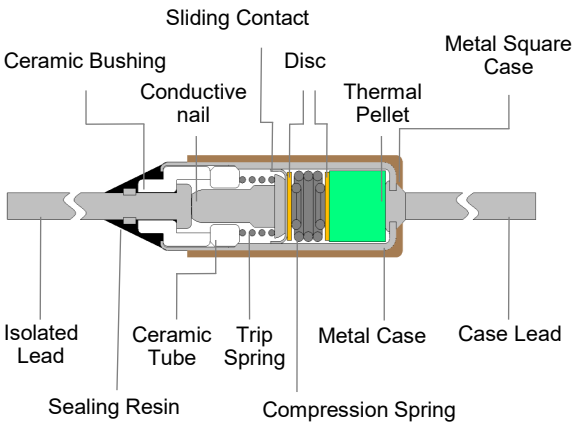
Customization

- Other Temp.
- The Length of Lead Wires
- Taping Packing Available
- Leads Forming Types

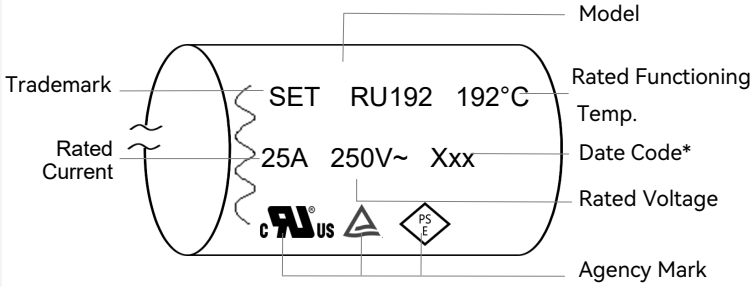
Cylindrical Structure Diagrams



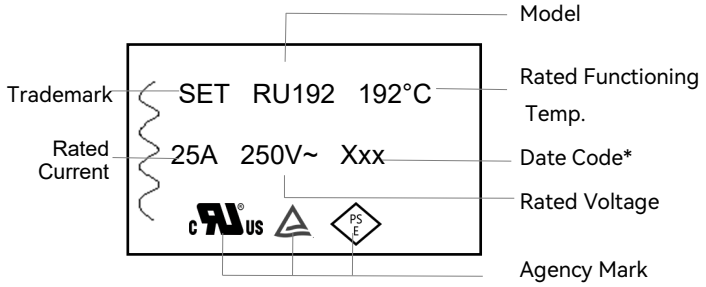
Square Structure Diagrams



Cylindrical Structure Marking



Square Structure Marking



Remark:

1: The Date Code means Year and quarter: A stands for 2000, B stands for 2001 and 01 stands for the first quarter, 02 stands for the second quarter, and so on.

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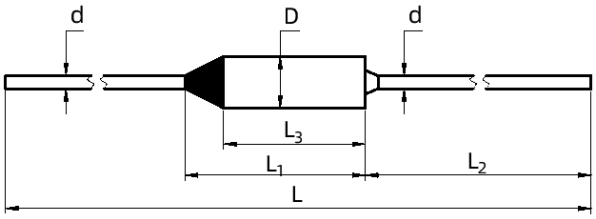
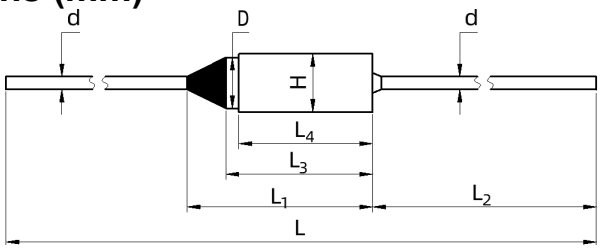
Cylindrical Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	D	d
Standard	65 ± 3	(14)	35 ± 2	(11.5)	Φ 4 ± 0.2	Φ 1.2 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.5)	Φ 4 ± 0.2	Φ 1.2 ± 0.1
Option	Customization	(14)	Customization	(11.5)	Φ 4 ± 0.2	Φ 1.2 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Square Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	L_4	D	H	d
Standard	65 ± 3	(14)	35 ± 2	(11.5)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1.2 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.5)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1.2 ± 0.1
Option	Customization	(14)	Customization	(11.5)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1.2 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Agency Information

Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe | SETfuse
	UL60691	E214712
	CAN-CSA-E60691	E214712
	EN60691	R507153440001
	J60691	JET2121-32001-2011、JET2121-32001-2012 JET2121-32001-2013、JET2121-32001-2014 JET2121-32001-2015、JET2121-32001-2016 JET2121-32001-2017、JET2121-32001-2018 JET2121-32001-2019、JET2121-32001-2020

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Thermal-Link (OTCO)-Organic Type

RU Series I_r: 25A

Specifications

Rated Functioning Temp. (T_f) °C

	Model	Fusing Temp. (°C)	T_h (°C)	T_h^* (UL/cUL) (°C)	T_m (°C)	I_r (A)	U_r (VAC)	UL	cUL	TUV	PSE	KC	CCC	RoHS REACH
275	RU275	271 ± 4	215	260	450	25	250	●	●	●	⊙	⊙	⊙	●
263	RU263	261 ± 2	185	225	500	25	250	○	○	○	⊙	⊙	⊙	RoHS● REACH *
257	RU257	254 ± 2	197	237	500	25	250	●	●	●	●	⊙	⊙	●
240	RU240	238 ± 2	180	220	500	25	250	●	●	●	●	⊙	⊙	●
229	RU229	227 ± 2	176	210	500	25	250	○	○	○	●	⊙	⊙	●
216	RU216	213 ± 2	163	203	500	25	250	●	●	●	●	⊙	⊙	●
205	RU205	203 ± 2	152	192	500	25	250	○	○	○	●	⊙	⊙	●
192	RU192	190 ± 2	139	179	500	25	250	●	●	●	●	⊙	⊙	●
184	RU184	181 ± 2	131	171	500	25	250	●	●	●	●	⊙	⊙	●
172	RU172	168 ± 2	119	159	500	25	250	○	○	○	●	⊙	⊙	●
167	RU167	164 ± 2	114	154	500	25	250	●	●	●	●	⊙	⊙	●
157	RU157	155 ± 2	104	144	500	25	250	●	●	●	●	⊙	⊙	●
152	RU152	149 ± 2	99	139	500	25	250	●	●	●	●	⊙	⊙	●
144	RU144	141 ± 2	91	131	500	25	250	●	●	●	●	⊙	⊙	●
134	RU134	131 ± 2	81	121	500	25	250	●	●	●	●	⊙	⊙	●
128	RU128	124 ± 2	75	115	500	25	250	●	●	●	●	⊙	⊙	●
121	RU121	118 ± 2	68	108	500	25	250	●	●	●	●	⊙	⊙	●
117	RU117	114 ± 2	64	104	500	25	250	○	○	○	●	⊙	⊙	●
110	RU110	108 ± 2	57	97	500	25	250	●	●	●	●	⊙	⊙	●
104	RU104	102 ± 2	51	91	500	25	250	○	○	○	●	⊙	⊙	●
98	RU98	95 ± 2	45	85	500	25	250	●	●	●	●	⊙	⊙	●
94	RU94	91 ± 2	41	81	500	25	250	○	○	○	●	⊙	⊙	●
84	RU84	82 ± 2	N/A	71	500	25	250	○	○	○	●	○	○	●
77	RU77	74 ± 2	N/A	64	500	25	250	●	●	○	●	○	○	●
72	RU72	69 ± 2	N/A	59	500	25	250	○	○	○	●	○	○	●

Note:

1. "●"Means certificated, "○"Means non-certificated, "⊙"Means Certification in progress, RoHS & REACH Compliant ." * " indicates that RU263 complies with REACH Directive 1907/2006/EC, SVHC Candidate List, Batch 29, Item 235 for most of the content (please consult SET for details).
2. For the T_h test, UL/cUL monitors the temperature of the product itself, while other standards monitor the ambient temperature inside the oven.
3. RU series with a T_f rating 175°C and above comply with UL conductive heat aging (CHAT) requirements.

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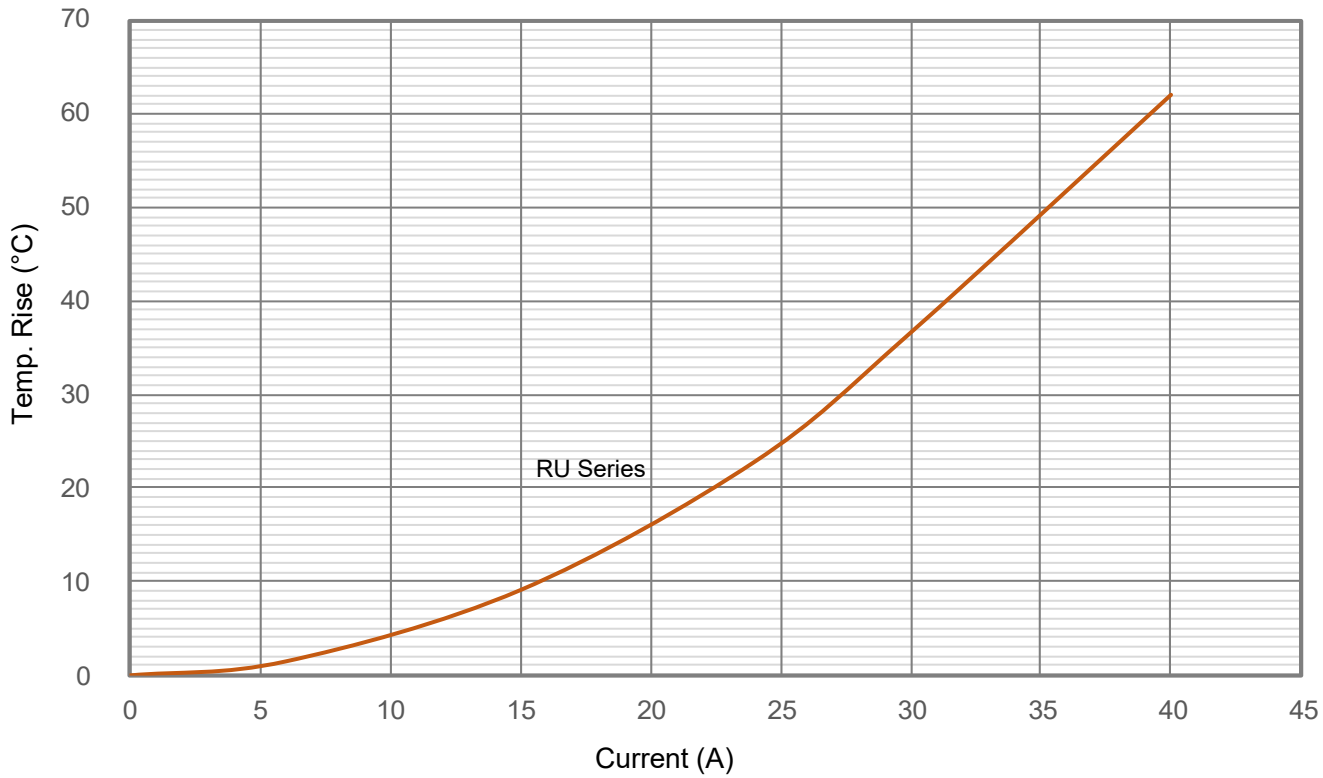
Temp. Rise (Reference)



Note: The temperature rise test for square products is continuously updated. If you need data, please consult SET.

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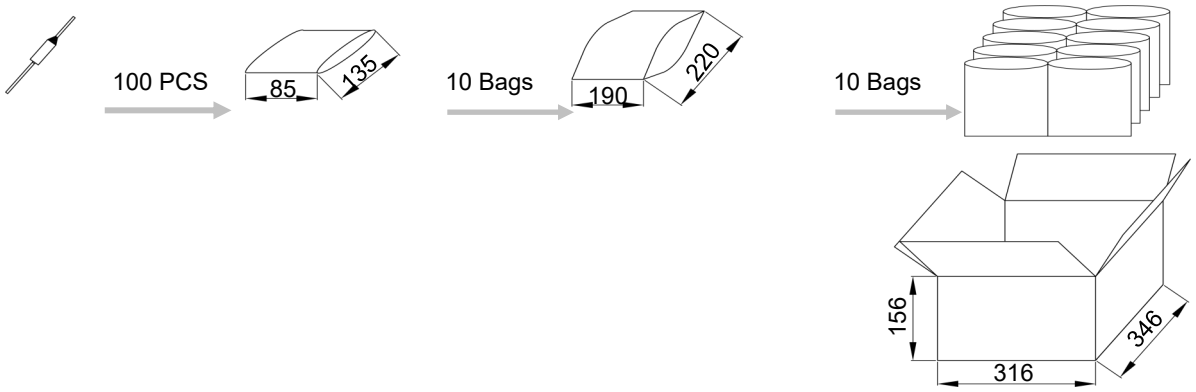
Packaging Information

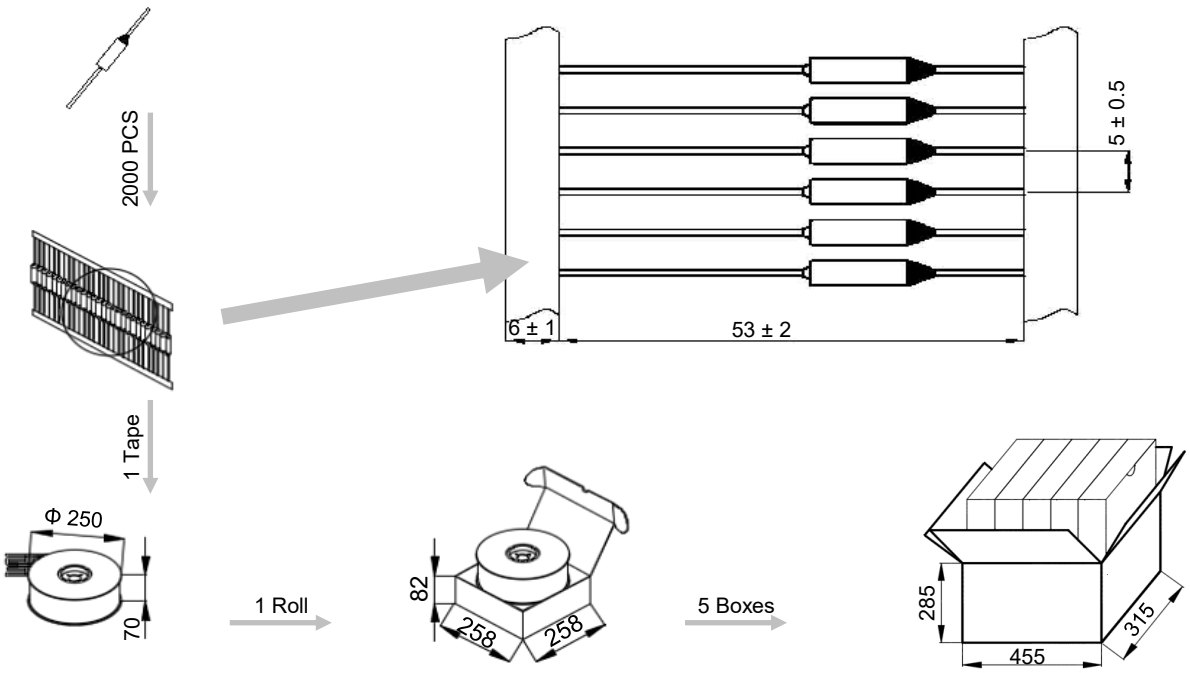
1.Bulk

Item	PE Bag	PE Bag	Carton
Dimensions (mm)	135 x 85	220 x 190	346 x 316 x 156
Quantity (PCS)	100	1000	10000
Gross Weight (kg)			Cylindrical: 13.3 ± 10% Square: 20.3 ± 10%



2.Taping

Item	**Scroll**	Box	Carton
Dimensions (mm)	Φ 250 x Φ 85 x 70	258 x 258 x 82	455 x 315 x 285
Quantity (PCS)	2000	2000	10000
Gross Weight (kg)			Cylindrical: 15.0 ± 10% Square: 22.0 ± 10%



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Part Numbering System

OTCO - RU 72 - L S A B - 001

Other Options

Packing

B	Bulk
T	Taping

Leads Forming

A	Straight Lead
B	Single Lead Bending
C	Leads Bending

Lead Length

S	Standard
L	Long
O	Option

Process of Mark

L	Laser

Rated Functioning Temp.

72	72 °C, See Specifications

Series

RU	Series See Specifications

Product Category

OTCO	Organic Thermal-Link

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Thermal-Link (OTCO)-Organic Type

RP Series I_r: 30A

Description

Organic Thermal-Link (OTCO) RP series is defined as a non-resettable protective device, functioning one time only. It mainly consists of metal case, spring, conductive nail, sliding contact and thermal pellet. When the Thermal-Link senses abnormal heat and temp. reaches the predetermined fusing temp., thermal pellet melts and the conductive nail separates from the isolated lead with the assistance of the trip spring, thereby the circuit is disconnected.

SETsafe | SETfuse Organic Thermal-Link (OTCO) RP series Rated Functioning Temp. from 72 ℃ to 275 ℃, Rated Current: 30 A, Rated Voltage: 250VAC, safety certification Includes UL, cUL, TUV, PSE, and complies with RoHS and REACH.

Features

- High Accuracy of Functioning Temp.
- Non-Resettable
- Organic Thermal Pellet
- Metal Case
- Low Resistance
- RoHS & REACH Compliant

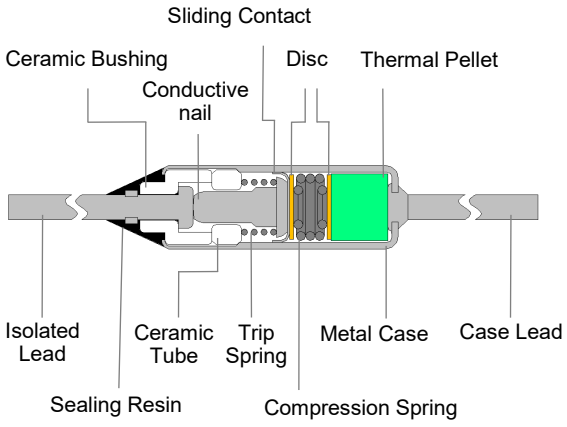
Applications

- High Power Home Appliances
- Commercial Appliances
- Automobile Field

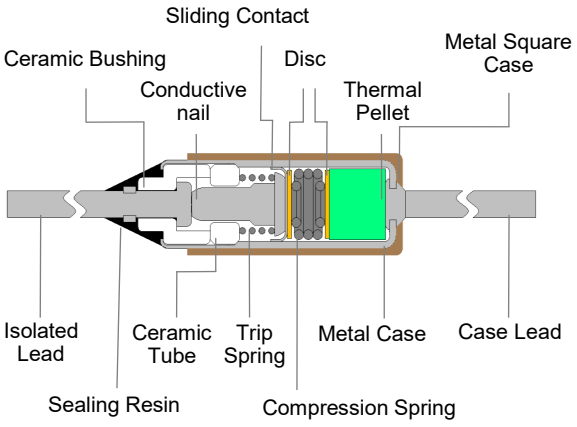
Customization

- Other Temp.
- The Length of Lead Wires
- Taping Packing Available
- Leads Forming Types

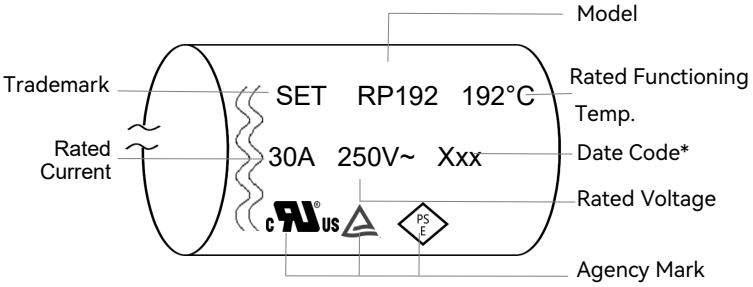
Cylindrical Structure Diagrams



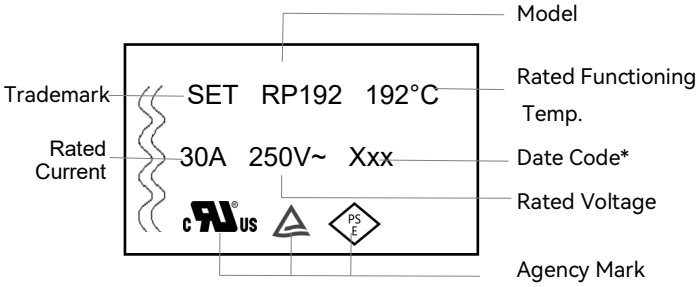
Square Structure Diagrams



Cylindrical Structure Marking



Square Structure Marking



Remark:

1: The Date Code means Year and quarter: A stands for 2000, B stands for 2001 and 01 stands for the first quarter, 02 stands for the second quarter, and so on.

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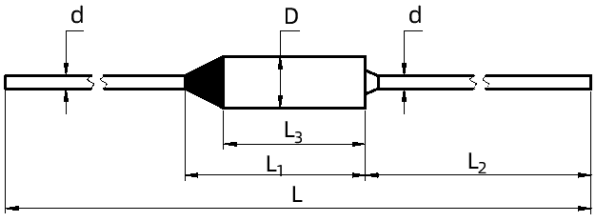
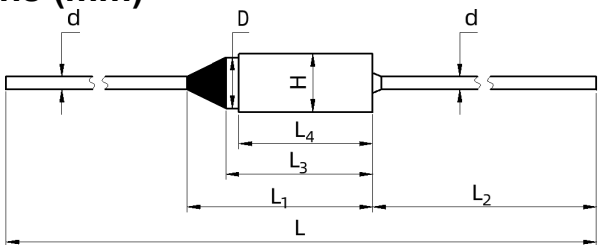
Cylindrical Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	D	d
Standard	65 ± 3	(14)	35 ± 2	(11.5)	Φ 4 ± 0.2	Φ 1.2 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.5)	Φ 4 ± 0.2	Φ 1.2 ± 0.1
Option	Customization	(14)	Customization	(11.5)	Φ 4 ± 0.2	Φ 1.2 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Square Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	L_4	D	H	d
Standard	65 ± 3	(14)	35 ± 2	(11.5)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1.2 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.5)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1.2 ± 0.1
Option	Customization	(14)	Customization	(11.5)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1.2 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Agency Information

Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe | SETfuse
	UL60691	E214712
	CAN-CSA-E60691	E214712
	EN60691	R507153440001
	J60691	JET2121-32001-2011、JET2121-32001-2012 JET2121-32001-2013、JET2121-32001-2014 JET2121-32001-2015、JET2121-32001-2016 JET2121-32001-2017、JET2121-32001-2018 JET2121-32001-2019、JET2121-32001-2020

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Specifications

Rated Functioning Temp. (T_f) °C

	Model	Fusing Temp.	T_h	T_h^* (UL/cUL)	T_m	I_r	U_r	UL	cUL	TUV	PSE	KC	CCC	RoHS REACH
		(°C)	(°C)	(°C)	(°C)	(A)	(VAC)	UL	cUL	TUV	PSE	KC	CCC	
275	RP275	271 ± 4	215	260	450	30	250	●	●	●	⊙	⊙	⊙	●
263	RP263	261 ± 2	185	225	500	30	250	○	○	○	⊙	⊙	⊙	RoHS● REACH *
257	RP257	254 ± 2	197	237	500	30	250	●	●	●	●	⊙	⊙	●
240	RP240	238 ± 2	180	220	500	30	250	●	●	●	●	⊙	⊙	●
229	RP229	227 ± 2	176	210	500	30	250	○	○	○	●	⊙	⊙	●
216	RP216	213 ± 2	163	203	500	30	250	●	●	●	●	⊙	⊙	●
205	RP205	203 ± 2	152	192	500	30	250	○	○	○	●	⊙	⊙	●
192	RP192	190 ± 2	139	179	500	30	250	●	●	●	●	⊙	⊙	●
184	RP184	181 ± 2	131	171	500	30	250	●	●	●	●	⊙	⊙	●
172	RP172	168 ± 2	119	159	500	30	250	○	○	○	●	⊙	⊙	●
167	RP167	164 ± 2	114	154	500	30	250	●	●	●	●	⊙	⊙	●
157	RP157	155 ± 2	104	144	500	30	250	●	●	●	●	⊙	⊙	●
152	RP152	149 ± 2	99	139	500	30	250	●	●	●	●	⊙	⊙	●
144	RP144	141 ± 2	91	131	500	30	250	●	●	●	●	⊙	⊙	●
134	RP134	131 ± 2	81	121	500	30	250	●	●	●	●	⊙	⊙	●
128	RP128	124 ± 2	75	115	500	30	250	●	●	●	●	⊙	⊙	●
121	RP121	118 ± 2	68	108	500	30	250	●	●	●	●	⊙	⊙	●
117	RP117	114 ± 2	64	104	500	30	250	○	○	○	●	⊙	⊙	●
110	RP110	108 ± 2	57	97	500	30	250	●	●	●	●	⊙	⊙	●
104	RP104	102 ± 2	51	91	500	30	250	○	○	○	●	⊙	⊙	●
98	RP98	95 ± 2	45	85	500	30	250	●	●	●	●	⊙	⊙	●
94	RP94	91 ± 2	41	81	500	30	250	○	○	○	●	⊙	⊙	●
84	RP84	82 ± 2	N/A	71	500	30	250	○	○	○	●	○	○	●
77	RP77	74 ± 2	N/A	64	500	30	250	●	●	○	●	○	○	●
72	RP72	69 ± 2	N/A	59	500	30	250	○	○	○	●	○	○	●

Note:

1. "●"Means certificated, "○"Means non-certificated, "⊙"Means Certification in progress, RoHS & REACH Compliant ." * " indicates that RP263 complies with REACH Directive 1907/2006/EC, SVHC Candidate List, Batch 29, Item 235 for most of the content (please consult SET for details).
2. For the T_h test, UL/cUL monitors the temperature of the product itself, while other standards monitor the ambient temperature inside the oven.
3. RP series with a T_f rating 175°C and above comply with UL conductive heat aging (CHAT) requirements.

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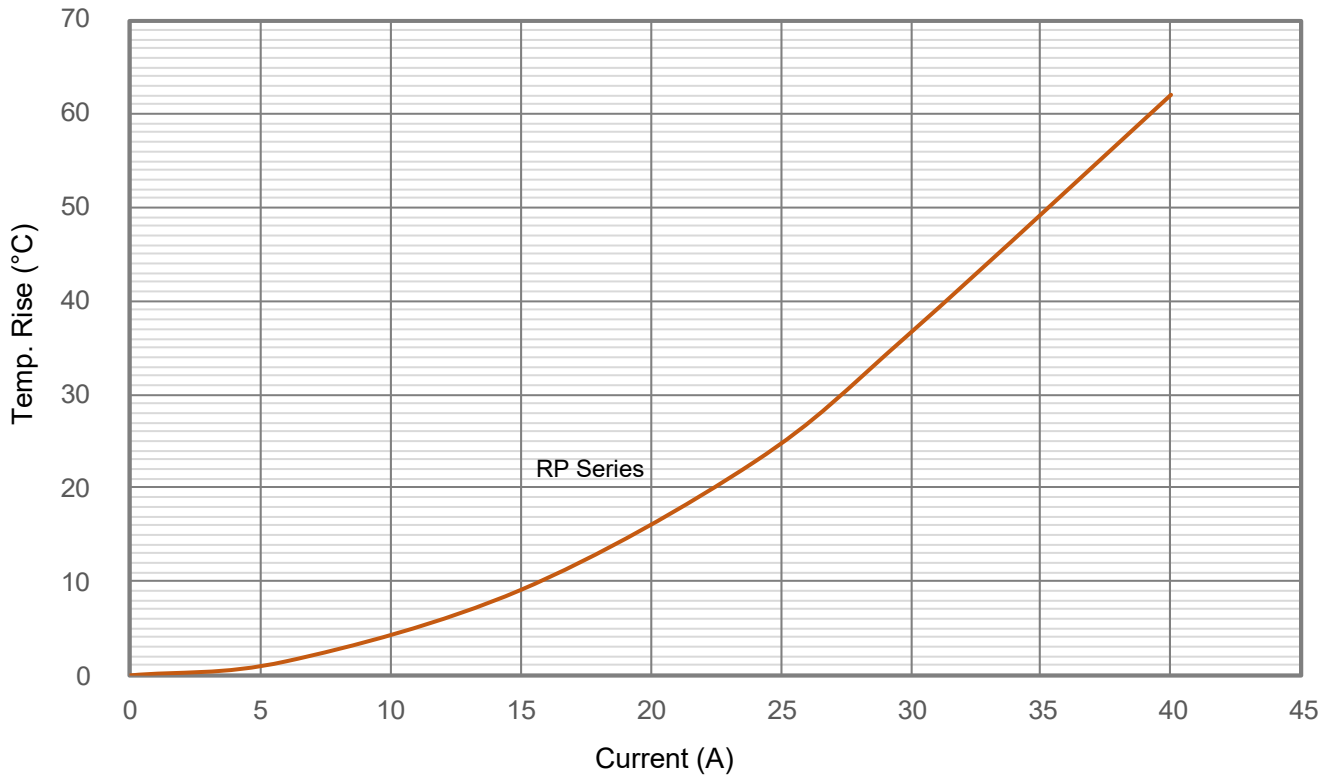
Temp. Rise (Reference)



Note: The temperature rise test for square products is continuously updated. If you need data, please consult SET.

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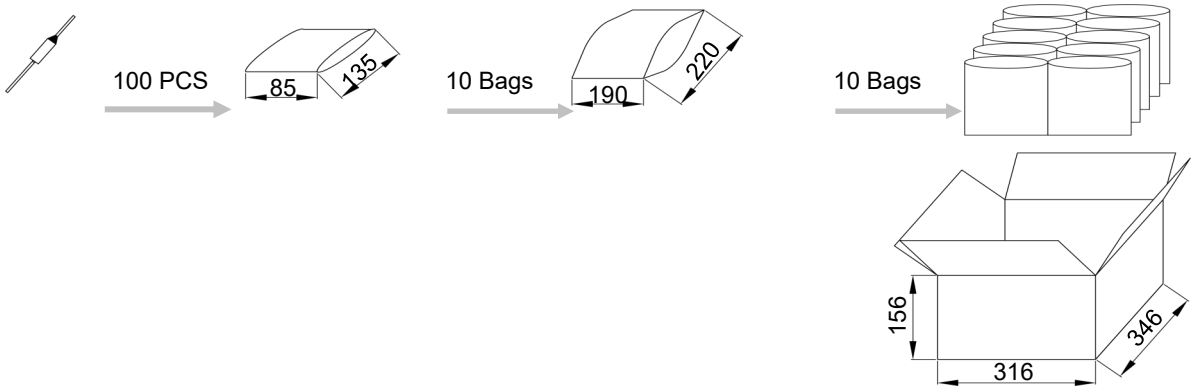
Packaging Information

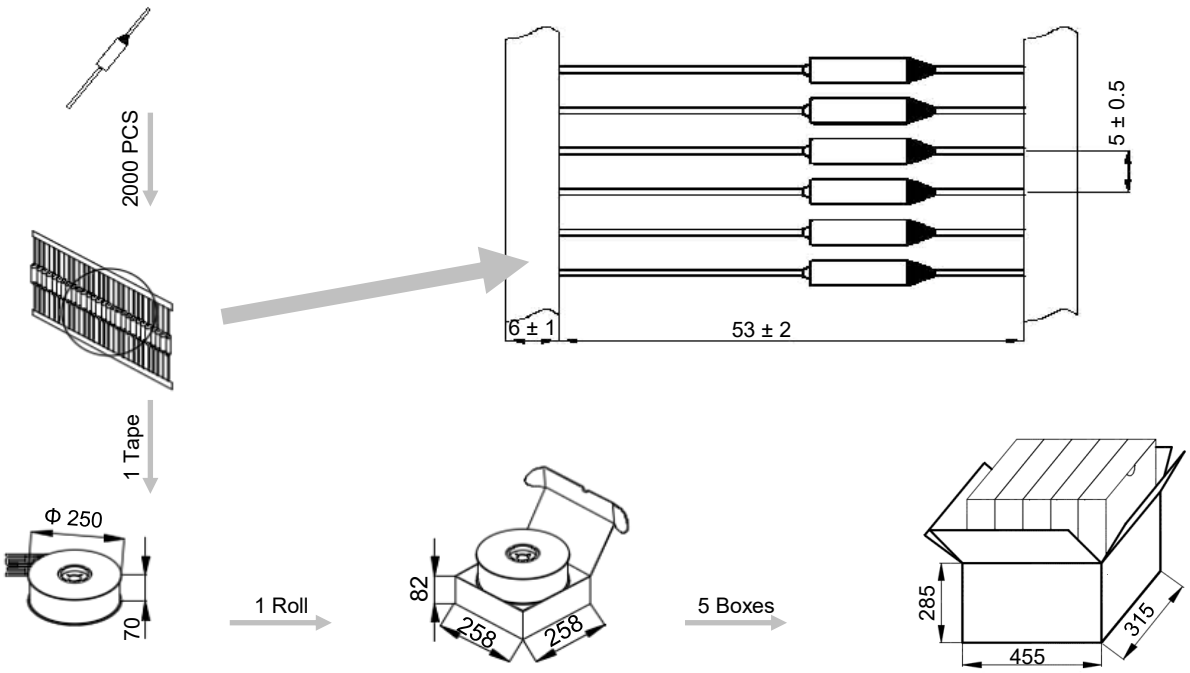
1.Bulk

Item	PE Bag	PE Bag	Carton
Dimensions (mm)	135 x 85	220 x 190	346 x 316 x 156
Quantity (PCS)	100	1000	10000
Gross Weight (kg)			Cylindrical: 13.3 ± 10% Square: 20.3 ± 10%



2.Taping

Item	**Scroll**	Box	Carton
Dimensions (mm)	Φ 250 x Φ 85 x 70	258 x 258 x 82	455 x 315 x 285
Quantity (PCS)	2000	2000	10000
Gross Weight (kg)			Cylindrical: 15.0 ± 10% Square: 22.0 ± 10%



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Part Numbering System

OTCO - RP 72 - L S A B - 001

Other Options

Packing

B	Bulk
T	Taping

Leads Forming

A	Straight Lead
B	Single Lead Bending
C	Leads Bending

Lead Length

S	Standard
L	Long
O	Option

Process of Mark

L	Laser

Rated Functioning Temp.

72	72 °C, See Specifications

Series

RP	Series See Specifications

Product Category

OTCO	Organic Thermal-Link

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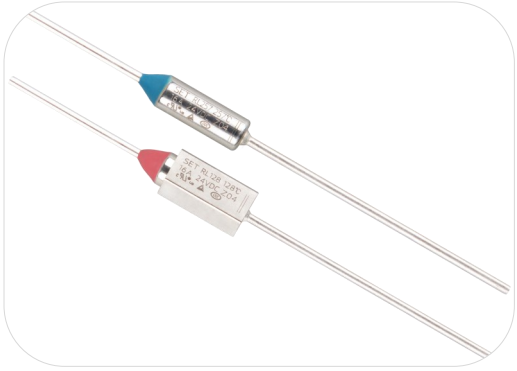
Thermal-Link (OTCO)-Organic Type

RL Series I: 16A



Description

Organic Thermal-Link (OTCO) RL series is defined as a non-resettable protective device, functioning one time only. It mainly consists of metal case, spring, sliding contact and thermal pellet. When the Thermal-Link senses abnormal heat and temp. reaches the predetermined fusing temp., thermal pellet melts and the sliding contact separates from the isolated lead with the assistance of the trip spring, thereby the circuit is disconnected.

SETsafe | SETfuse Organic Thermal-Link (OTCO) RL series Rated Functioning Temp. from 72 ℃ to 275 ℃, Rated Current: 16 A, Rated Voltage: 24VDC, safety certification Includes UL, CUL, TUV, complies with RoHS and REACH.

Features

- High Accuracy of Functioning Temp.
- Non-Resettable
- Organic Thermal Pellet
- Metal Case
- Low Resistance
- RoHS & REACH Compliant

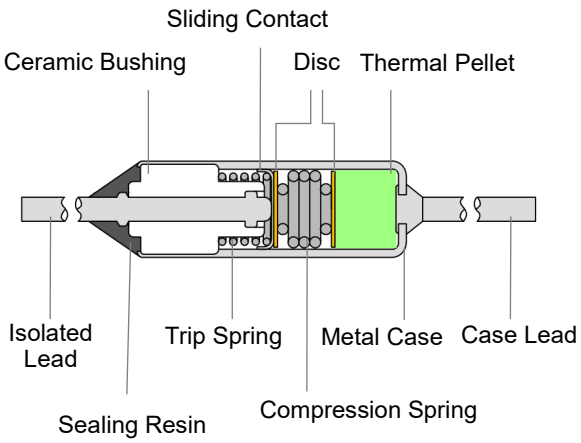
Applications

- Personal Care Appliance
- Kitchen and Toilet Appliance
- Environment Appliances
- Automotive Electronics
- Cleaning Appliances
- Electric Tool

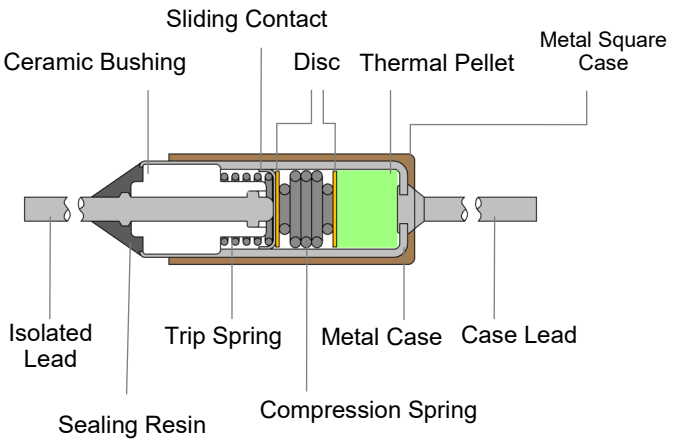
Customization

- Other Temp.
- The Length of Lead Wires
- Taping Packing Available
- Leads Forming Types

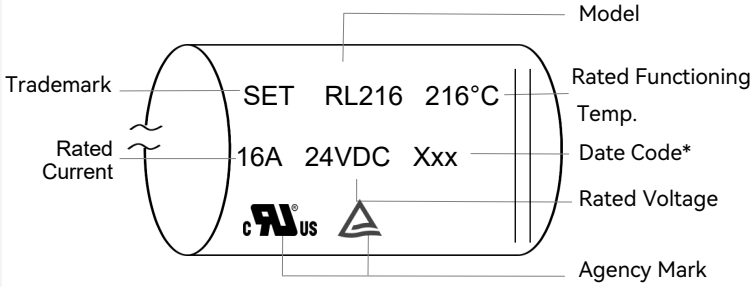
Cylindrical Structure Diagrams



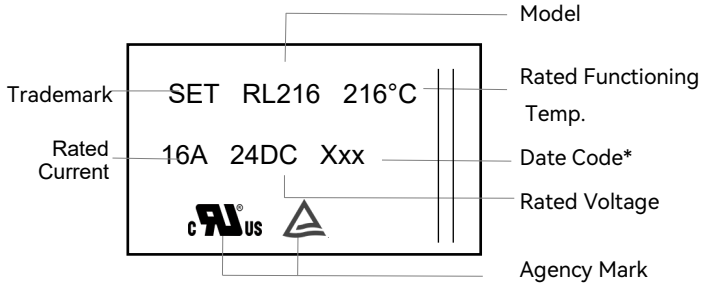
Square Structure Diagrams



Cylindrical Structure Marking



Square Structure Marking



Remark:

1: The Date Code means Year and quarter: A stands for 2000, B stands for 2001 and 01 stands for the first quarter, 02 stands for the second quarter， and so on.

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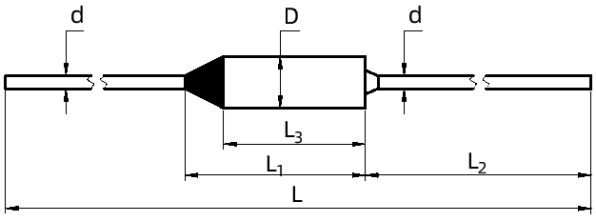
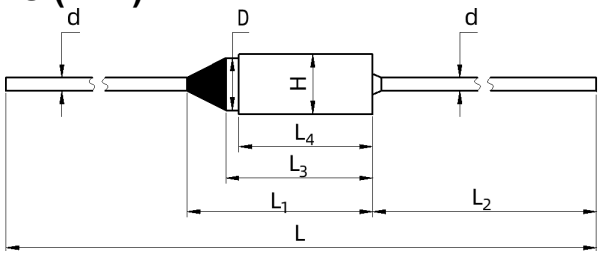
Cylindrical Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	D	d
Standard	65 ± 3	(14)	35 ± 2	(11.3)	Φ 4 ± 0.2	Φ 1 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.3)	Φ 4 ± 0.2	Φ 1 ± 0.1
Option	Customization	(14)	Customization	(11.3)	Φ 4 ± 0.2	Φ 1 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Square Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	L_4	D	H	d
Standard	65 ± 3	(14)	35 ± 2	(11.3)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.3)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1 ± 0.1
Option	Customization	(14)	Customization	(11.3)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Agency Information

Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe | SETfuse
	UL60691	E214712
	CAN-CSA-E60691	E214712
	EN 60691	R507145000001
	GB 9816.1	Certification in progress

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Specifications

Rated Functioning Temp. (T_f) °C

	Model	Fusing Temp.	T_h	T_h^* (UL/CUL)	T_h (SET measured value)	T_m	I_r	U_r	UL	CUL	TUV	CCC	RoHS REACH
		(°C)	(°C)	(°C)	(°C)	(°C)	(A)	(VDC)	UL	CUL	TUV	CCC	
275	RL275	271 ± 4	215	260	260	450	16	24	●	●	●	⊙	●
263	RL263	261 ± 2	205	225	225	480	16	24	●	●	●	⊙	RoHS● REACH *
257	RL257	254 ± 2	200	220	237	480	16	24	●	●	●	⊙	●
240	RL240	238 ± 2	200	205	220	450	16	24	●	●	●	⊙	●
229	RL229	227 ± 2	200	200	210	450	16	24	●	●	●	⊙	●
216	RL216	213 ± 2	186	200	203	450	16	24	●	●	●	⊙	●
205	RL205	203 ± 2	177	192	192	450	16	24	●	●	●	⊙	●
192	RL192	190 ± 2	162	177	179	300	16	24	●	●	●	⊙	●
184	RL184	181 ± 2	154	169	171	250	16	24	●	●	●	⊙	●
172	RL172	168 ± 2	143	157	159	260	16	24	●	●	●	⊙	●
167	RL167	164 ± 2	137	152	154	220	16	24	●	●	●	⊙	●
157	RL157	155 ± 2	129	144	144	450	16	24	●	●	●	⊙	●
152	RL152	149 ± 2	122	137	139	205	16	24	●	●	●	⊙	●
144	RL144	141 ± 2	114	129	131	300	16	24	●	●	●	⊙	●
134	RL134	131 ± 2	104	119	121	250	16	24	●	●	●	⊙	●
128	RL128	124 ± 2	98	113	115	200	16	24	●	●	●	⊙	●
121	RL121	118 ± 2	93	106	108	300	16	24	●	●	●	⊙	●
117	RL117	114 ± 2	88	102	104	200	16	24	●	●	●	⊙	●
110	RL110	108 ± 2	82	95	97	240	16	24	●	●	●	⊙	●
104	RL104	102 ± 2	74	89	91	250	16	24	●	●	●	⊙	●
99	RL99	95 ± 2	69	84	86	200	16	24	●	●	●	⊙	●
94	RL94	91 ± 2	64	79	81	300	16	24	●	●	●	⊙	●
84	RL84	82 ± 2	54	69	71	200	16	24	●	●	●	⊙	●
77	RL77	74 ± 2	50	62	64	300	16	24	●	●	●	⊙	●
72	RL72	69 ± 2	42	57	59	180	16	24	●	●	●	⊙	●

Note:

1. "●"Means certificated, "○"Means non-certificated, "⊙"Means Certification in progress, RoHS & REACH Compliant ." * " indicates that RL263 complies with REACH Directive 1907/2006/EC, SVHC Candidate List, Batch 29, Item 235 for most of the content (please consult SET for details).
2. For the T_h test, UL/CUL monitors the temperature of the product itself, while other standards monitor the ambient temperature inside the oven.
3. RL series with a T_f rating 175°C and above comply with UL conductive heat aging (CHAT) requirements.

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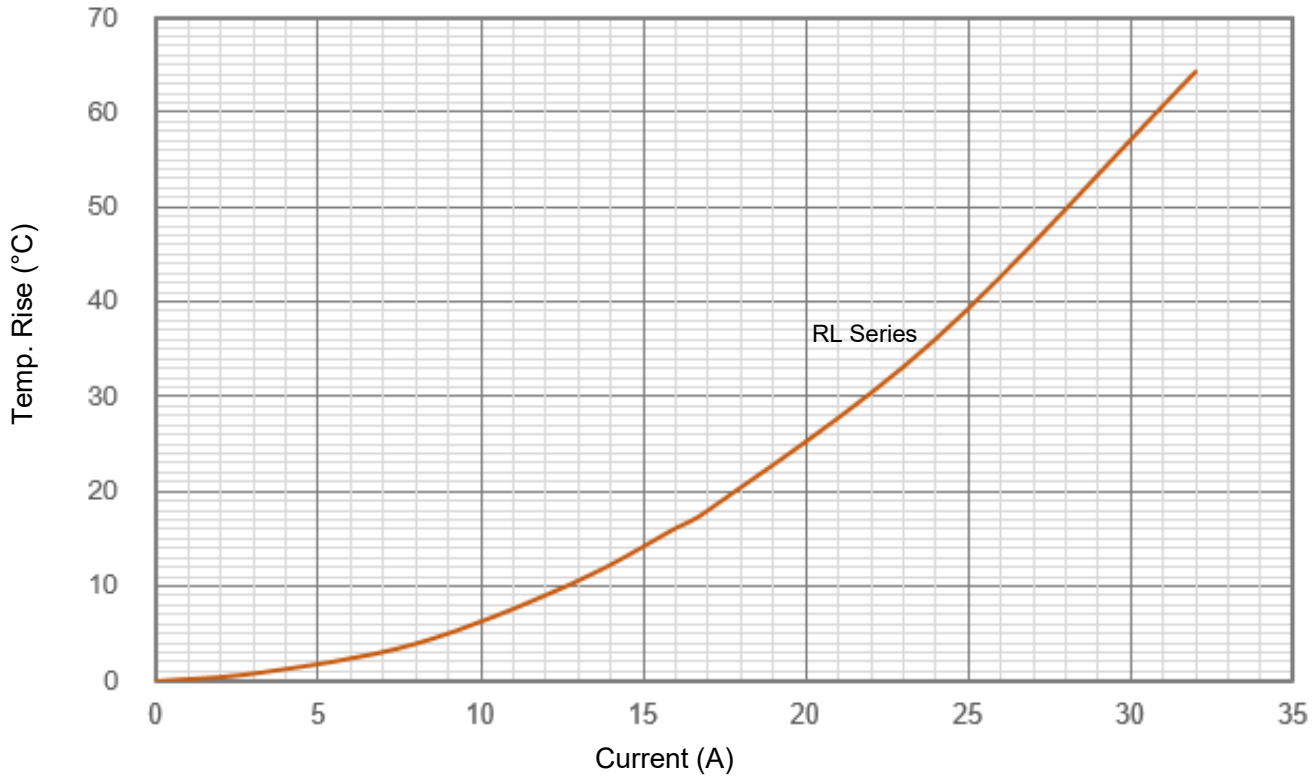
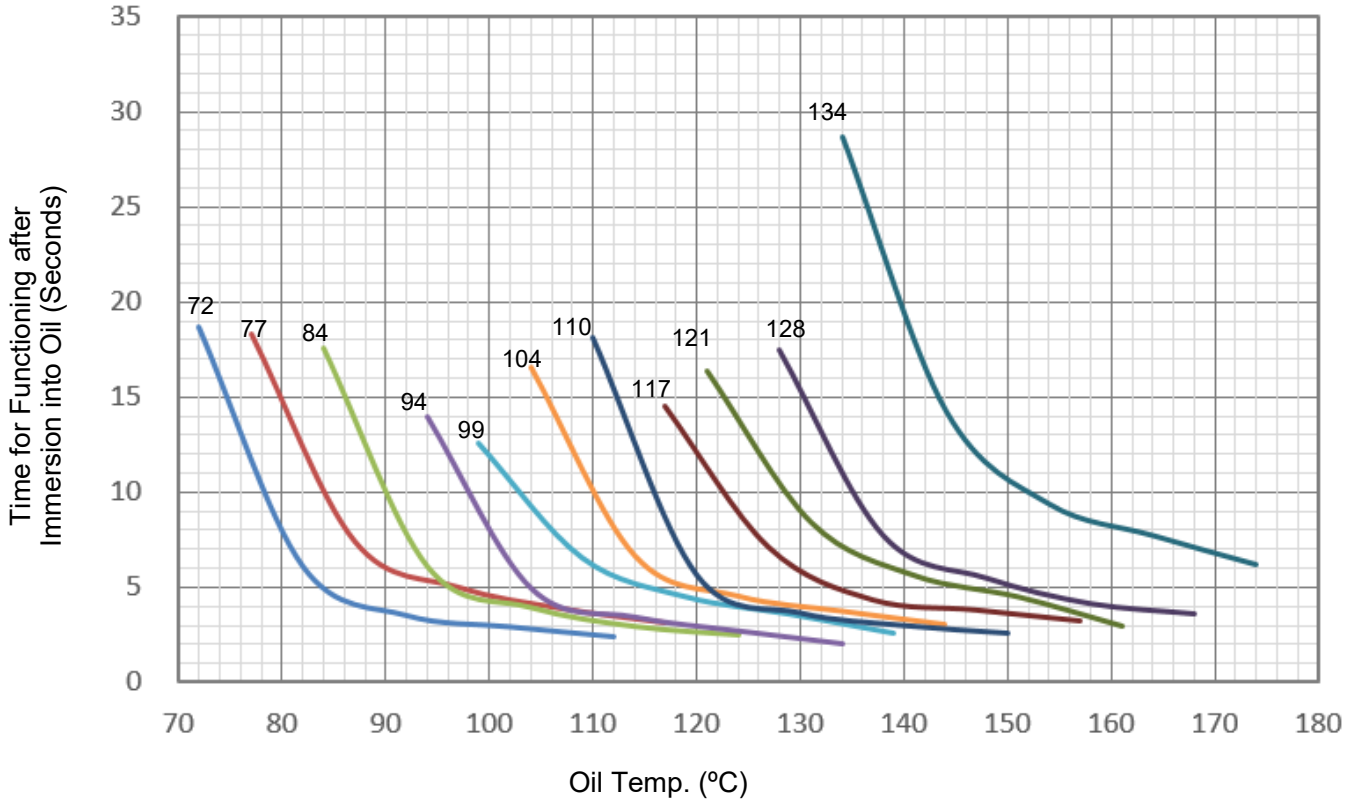
Cylindrical Structure Temp. Rise (Reference)



Cylindrical Structure Response Time (Reference)



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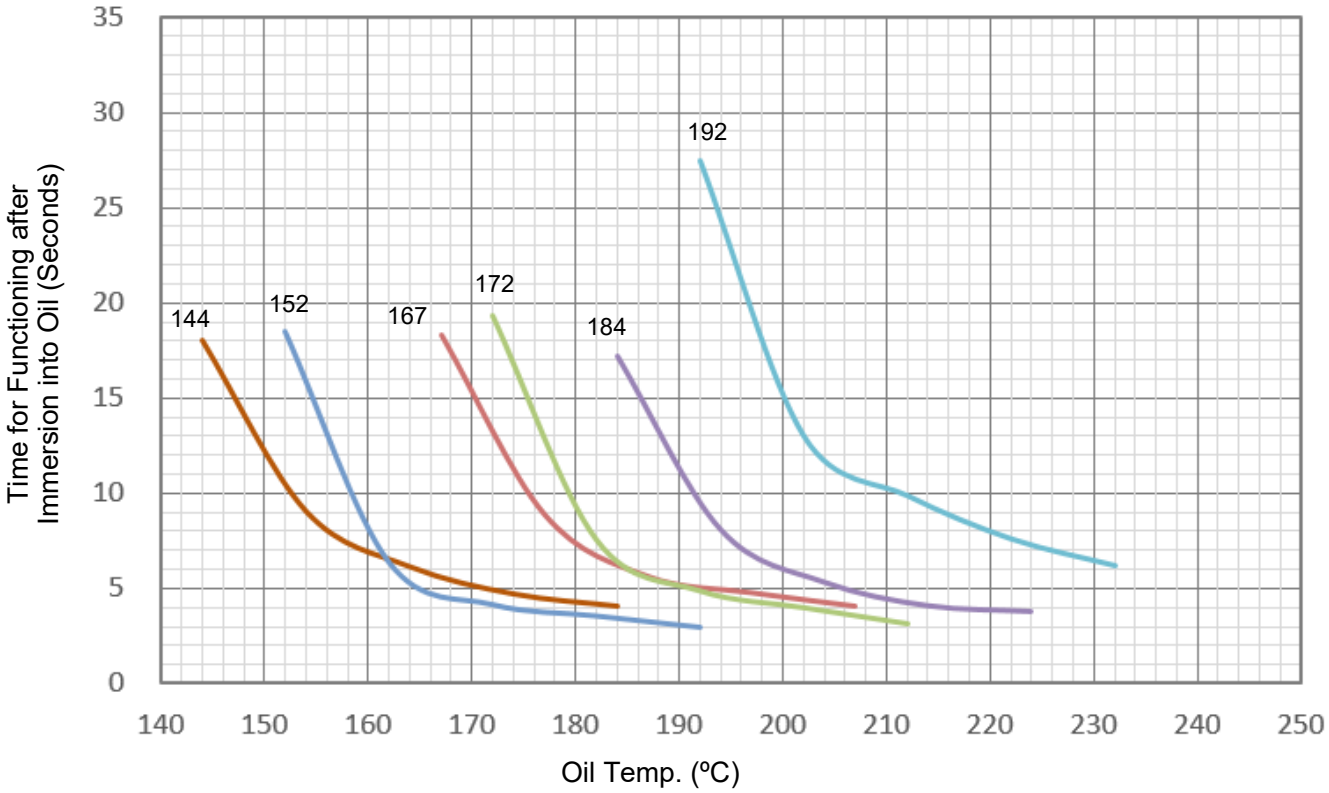

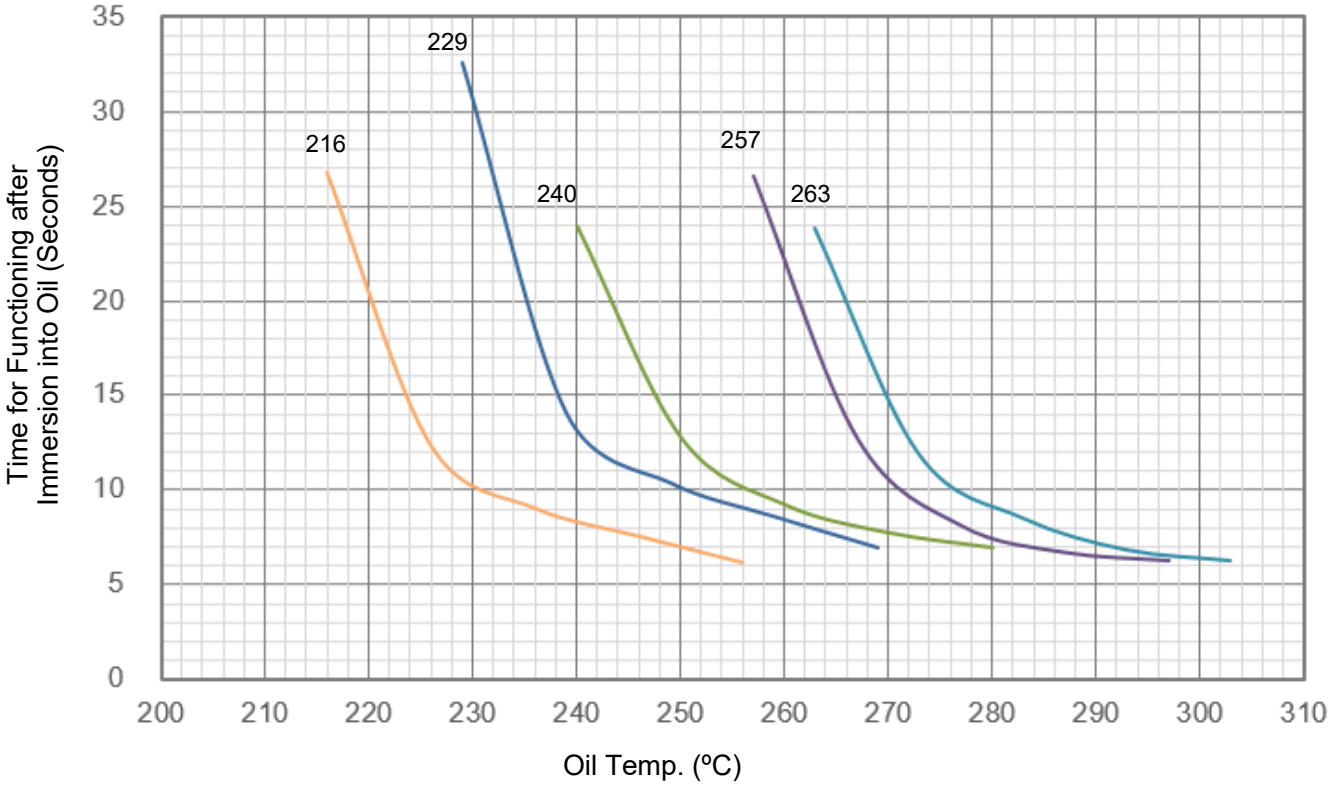

Note: The response time of 157/205/275/310 are testing, the temperature rise and response time testing of square products are continuously being updated. If you require any data, please consult SET.

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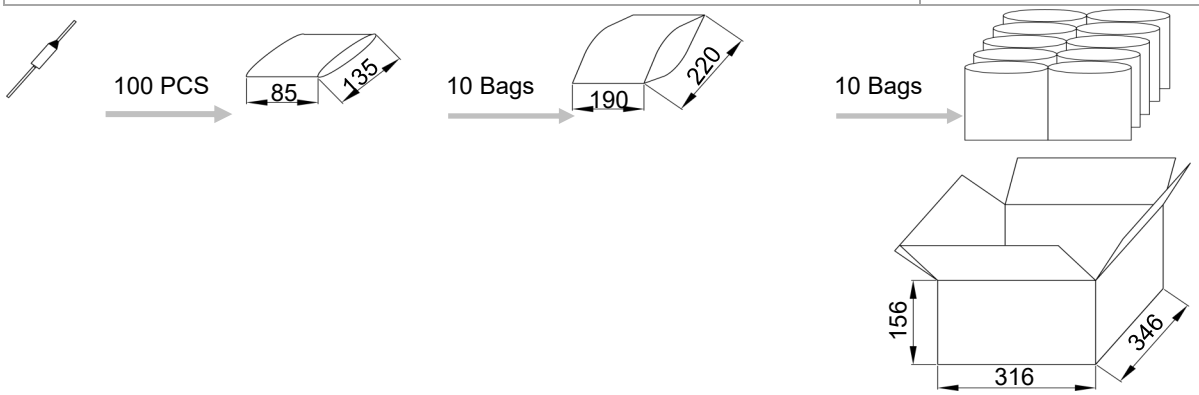
Packaging Information

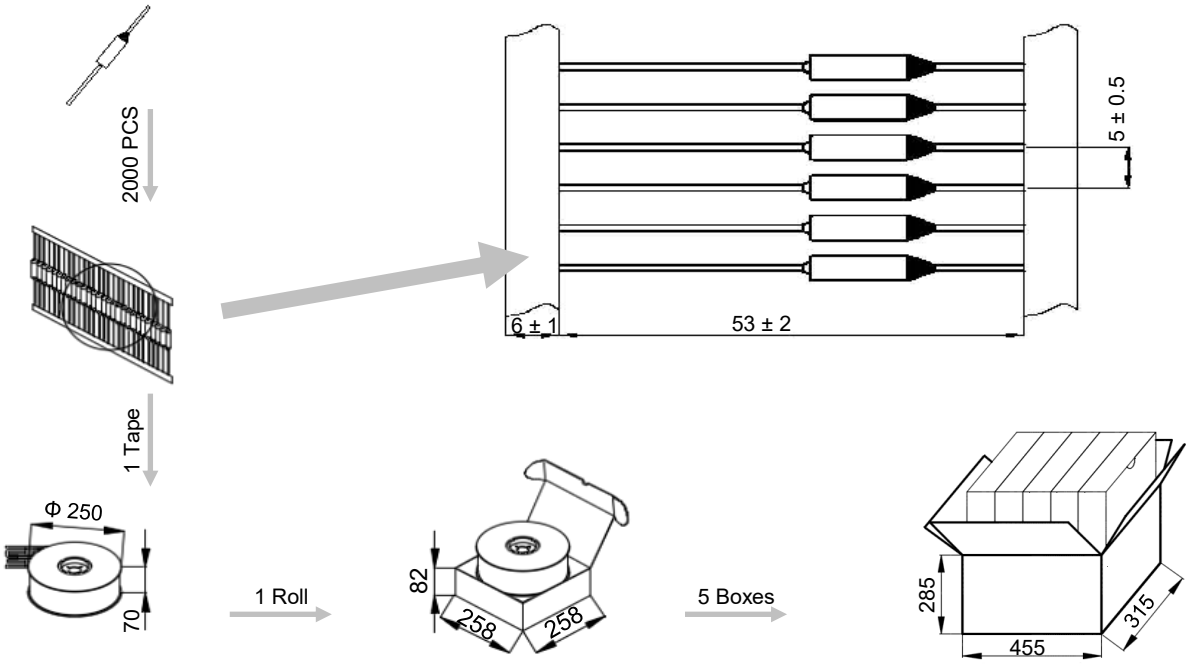
1.Bulk

Item	PE Bag	PE Bag	Carton
Dimensions (mm)	135 x 85	220 x 190	346 x 316 x 156
Quantity (PCS)	100	1000	10000
Gross Weight (kg)			Cylindrical: 11 ± 10% Square: 18 ± 10%



2.Taping

Item	**Scroll**	Box	Carton
Dimensions (mm)	Φ 250 x Φ 85 x 70	258 x 258 x 82	455 x 315 x 285
Quantity (PCS)	2000	2000	10000
Gross Weight (kg)			Cylindrical: 12.7 ± 10% Square: 19.7 ± 10%



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Part Numbering System

OTCO - RL 72 - L S A B - 001

Other Options

Packing

B	Bulk
T	Taping

Leads Forming

A	Straight Lead
B	Single Lead Bending
C	Leads Bending

Lead Length

S	Standard
L	Long
O	Option

Process of Mark

L	Laser

Rated Functioning Temp.

72	72 °C, See Specifications

Series

RL	Series See Specifications

Product Category

OTCO	Organic Thermal-Link

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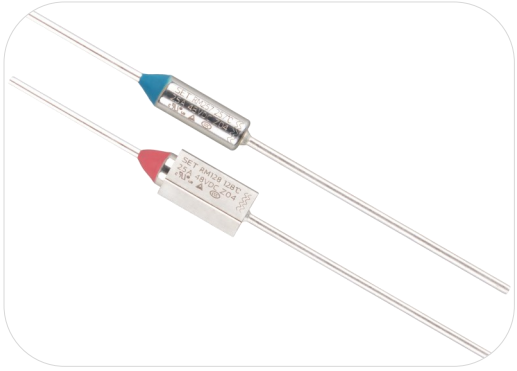
Thermal-Link (OTCO)-Organic Type

RM Series /: 25A



Description

Organic Thermal-Link (OTCO) RM series is defined as a non-resettable protective device, functioning one time only. It mainly consists of metal case, spring, conductive nail, sliding contact and thermal pellet. When the Thermal-Link senses abnormal heat and temp. reaches the predetermined fusing temp., thermal pellet melts and the conductive nail separates from the isolated lead with the assistance of the trip spring, thereby the circuit is disconnected.

SETsafe | SETfuse Organic Thermal-Link (OTCO) RM series Rated Functioning Temp. from 72 ℃ to 275 ℃, Rated Current: 25 A, Rated Voltage: 48VDC, , safety certification Includes UL, cUL, TUV, complies with RoHS and REACH.

Features

- High Accuracy of Functioning Temp.
- Non-Resettable
- Organic Thermal Pellet
- Metal Case
- Low Resistance
- RoHS & REACH Compliant

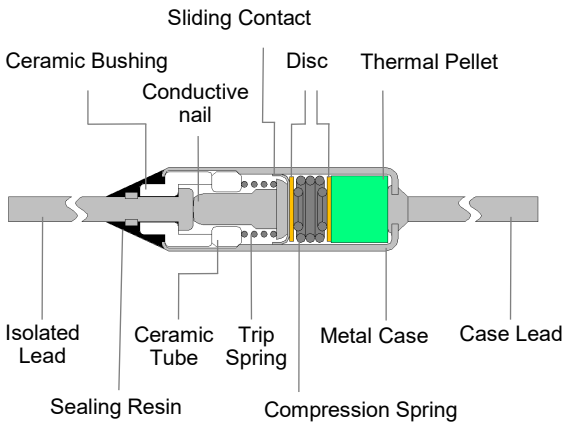
Applications

- Personal Care Appliance
- Kitchen and Toilet Appliance
- Environment Appliances
- Automotive Electronics
- Cleaning Appliances
- Electric Tool

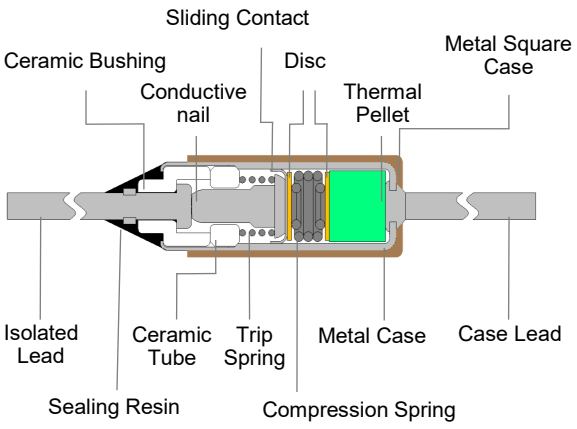
Customization

- Other Temp.
- The Length of Lead Wires
- Taping Packing Available
- Leads Forming Types

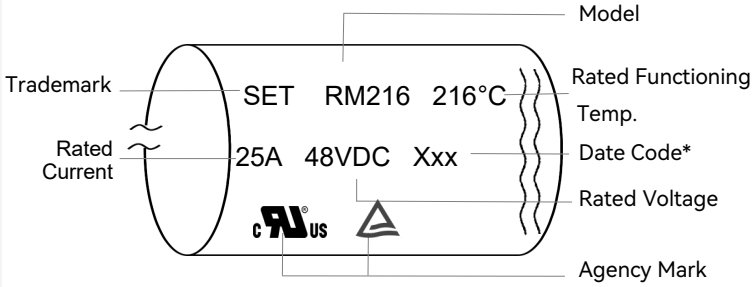
Cylindrical Structure Diagrams



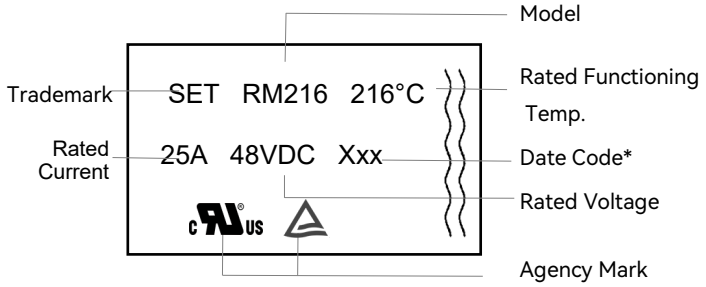
Square Structure Diagrams



Cylindrical Structure Marking



Square Structure Marking



Remark:

1: The Date Code means Year and quarter: A stands for 2000, B stands for 2001 and 01 stands for the first quarter, 02 stands for the second quarter, and so on.

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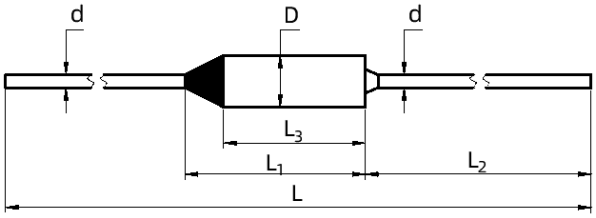
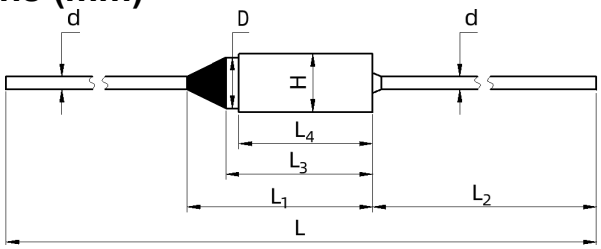
Cylindrical Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	D	d
Standard	65 ± 3	(14)	35 ± 2	(11.5)	Φ 4 ± 0.2	Φ 1.2 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.5)	Φ 4 ± 0.2	Φ 1.2 ± 0.1
Option	Customization	(14)	Customization	(11.5)	Φ 4 ± 0.2	Φ 1.2 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Square Structure Dimensions (mm)



Lead Length	L	L_1	L_2	L_3	L_4	D	H	d
Standard	65 ± 3	(14)	35 ± 2	(11.5)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1.2 ± 0.1
Long	81 ± 3	(14)	35 ± 2	(11.5)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1.2 ± 0.1
Option	Customization	(14)	Customization	(11.5)	10.3 ± 0.5	Φ 4 ± 0.2	4.6 ± 0.3	Φ 1.2 ± 0.1

Remark: The dimensions in parentheses are for reference only.

Agency Information

Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe | SETfuse
	UL60691	E214712
	CAN-CSA-E60691	E214712
	EN 60691	R507153440001
	GB 9816.1	Certification in progress

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Specifications

Rated Functioning Temp. (T_f) °C

	Model	Fusing Temp.	T_h	T_h^* (UL/cUL)	T_m	I_r	U_r	UL	cUL	TUV	CCC	RoHS REACH
		(°C)	(°C)	(°C)	(°C)	(A)	(VDC)	UL	cUL	TUV	CCC	
275	RM275	271 ± 4	215	260	450	25	48	●	●	●	⊙	●
263	RM263	261 ± 2	185	225	500	25	48	○	○	○	⊙	RoHS● REACH *
257	RM257	254 ± 2	197	237	500	25	48	●	●	●	⊙	●
240	RM240	238 ± 2	180	220	500	25	48	●	●	●	⊙	●
229	RM229	227 ± 2	176	210	500	25	48	○	○	○	⊙	●
216	RM216	213 ± 2	163	203	500	25	48	●	●	●	⊙	●
205	RM205	203 ± 2	152	192	500	25	48	○	○	○	⊙	●
192	RM192	190 ± 2	139	179	500	25	48	●	●	●	⊙	●
184	RM184	181 ± 2	131	171	500	25	48	●	●	●	⊙	●
172	RM172	168 ± 2	119	159	500	25	48	○	○	○	⊙	●
167	RM167	164 ± 2	114	154	500	25	48	●	●	●	⊙	●
157	RM157	155 ± 2	104	144	500	25	48	●	●	●	⊙	●
152	RM152	149 ± 2	99	139	500	25	48	●	●	●	⊙	●
144	RM144	141 ± 2	91	131	500	25	48	●	●	●	⊙	●
134	RM134	131 ± 2	81	121	500	25	48	●	●	●	⊙	●
128	RM128	124 ± 2	75	115	500	25	48	●	●	●	⊙	●
121	RM121	118 ± 2	68	108	500	25	48	●	●	●	⊙	●
117	RM117	114 ± 2	64	104	500	25	48	○	○	○	⊙	●
110	RM110	108 ± 2	57	97	500	25	48	●	●	●	⊙	●
104	RM104	102 ± 2	51	91	500	25	48	○	○	○	⊙	●
98	RM98	95 ± 2	45	85	500	25	48	●	●	●	⊙	●
94	RM94	91 ± 2	41	81	500	25	48	○	○	○	⊙	●
84	RM84	82 ± 2	N/A	71	500	25	48	○	○	○	○	●
77	RM77	74 ± 2	N/A	64	500	25	48	●	●	○	○	●
72	RM72	69 ± 2	N/A	59	500	25	48	○	○	○	○	●

Note:

1. "●"Means certificated, "○"Means non-certificated, "⊙"Means Certification in progress, RoHS & REACH Compliant ." * " indicates that RM263 complies with REACH Directive 1907/2006/EC, SVHC Candidate List, Batch 29, Item 235 for most of the content (please consult SET for details).
2. For the T_h test, UL/cUL monitors the temperature of the product itself, while other standards monitor the ambient temperature inside the oven.
3. RM series with a T_f rating 175°C and above comply with UL conductive heat aging (CHAT) requirements.

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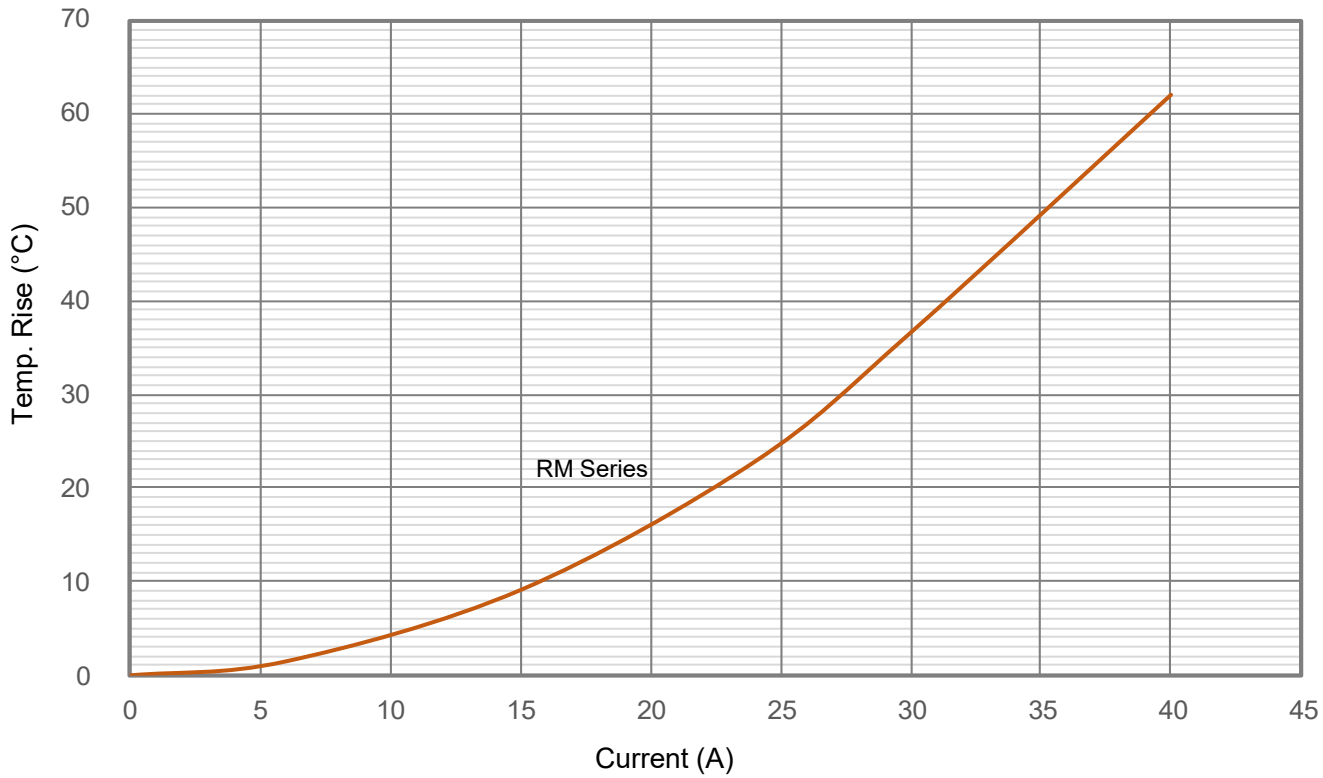
Cylindrical Structure Temp. Rise (Reference)



Note: The temperature rise test for square products is continuously updated. If you need data, please consult SET.

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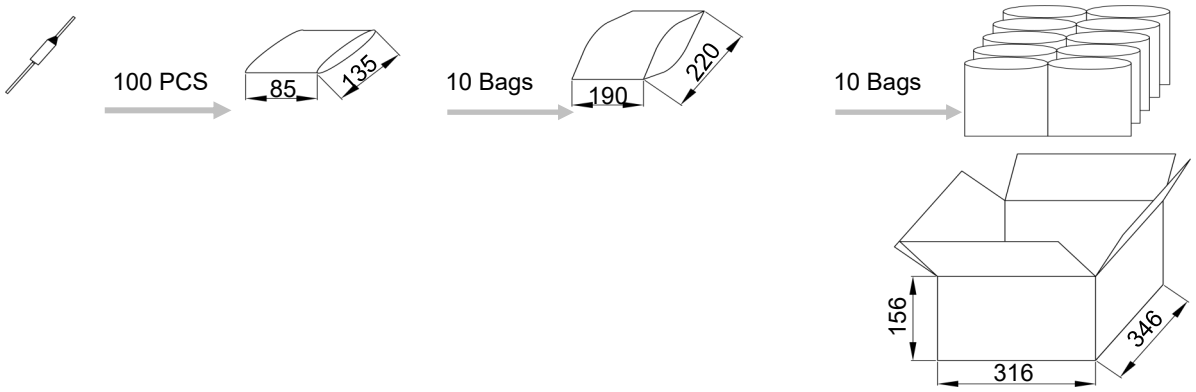
Packaging Information

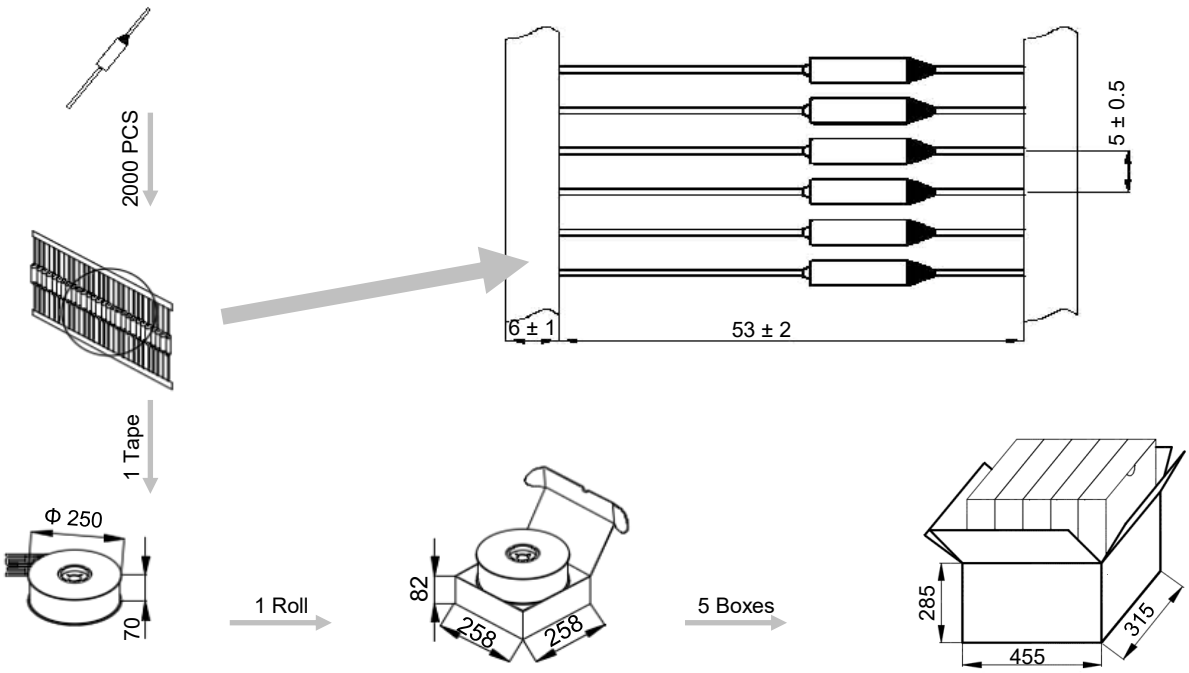
1.Bulk

Item	PE Bag	PE Bag	Carton
Dimensions (mm)	135 x 85	220 x 190	346 x 316 x 156
Quantity (PCS)	100	1000	10000
Gross Weight (kg)			Cylindrical: 13.3 ± 10% Square: 20.3 ± 10%



2.Taping

Item	**Scroll**	Box	Carton
Dimensions (mm)	Φ 250 x Φ 85 x 70	258 x 258 x 82	455 x 315 x 285
Quantity (PCS)	2000	2000	10000
Gross Weight (kg)			Cylindrical: 15.0 ± 10% Square: 22.0 ± 10%



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Part Numbering System

OTCO - RM 72 - L S A B - 001

Other Options

Packing

B	Bulk
T	Taping

Leads Forming

A	Straight Lead
B	Single Lead Bending
C	Leads Bending

Lead Length

S	Standard
L	Long
O	Option

Process of Mark

L	Laser

Rated Functioning Temp.

72	72 °C, See Specifications

Series

RM	Series See Specifications

Product Category

OTCO	Organic Thermal-Link

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Thermal-Link (OTCO)-Organic Type

Glossary

Item	Description
TCO	**Thermal-Link** A non-resettable device incorporating a THERMAL ELEMENT which will open a circuit once only when exposed for a sufficient length of time to a temperature in excess of that for which it has been designed. — (GB 9816.1)
OTCO	**Organic Thermal-Link** Organic type Thermal-Link, organic is the THERMAL ELEMENT.
T_f	**Rated Functioning Temp.** The temperature of the Alloy Thermal-Link which causes it to change the state of conductivity with a detection current up to 10 mA as the only load. — (GB 9816.1) Tolerance: T_f °C (GB 9816.1, EN 60691, K60691). Tolerance: T_f ± 7 °C (J60691).
Fusing Temp.	**Fusing Temp.** The temperature of the Alloy Thermal-Link which causes it to change its state of conductivity is measured with silicone oil bath in which the temperature is increased at the rate of 0.5 °C to 1 °C / minute, with a detection current up to 10 mA as the only load. — (GB 9816.1)
T_h	**Holding Temp.** The Maximum temperature at which a Alloy Thermal-Link will not change its state of conductivity when conducting rated current for 168 hours. — (GB 9816.1)
T_m	**Maximum Temp. Limit** The temperature of the Alloy Thermal-Link stated by the manufacturer, up to which the mechanical and electrical properties of the Alloy Thermal-Link having changed its state of conductivity, will not be impaired for a given time. — (GB 9816.1)
I_r	**Rated Current** The current used to classify a Alloy Thermal-Link. — (GB 9816.1)
U_r	**Rated Voltage** The voltage used to classify a Alloy Thermal-Link. — (GB 9816.1)
I_n	**Nominal Discharge Current** Being able to withstand 15 peak currents of waveform 8/20 μs to test the product's durability of withstanding pulse current. — (UL 1449)
I_{max}	**Max. Discharge Current** Being able to withstand 1 peak current of waveform 8/20 μs to test max. pulse current that the product can withstand. — (UL 1449)

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Thermal-Link (OTCO)-Organic Type

ATTENTION

Usage

1. Please use OTCO without exceeding the rated current and voltage.
2. Do not use the OTCO in environments out of the standard specifications, such as those containing sulfur dioxide gas, nitrogen oxide gas, ammonia gas or formic acid. It is also not suitable for using in high humidity environment or immersed in liquid.

Replace

OTCO is a non-repairable product. For safety aspect, it shall be replaced by an equivalent OTCO from the same manufacturer, and mounted in the same way.

Storage

1. OTCO must be kept in a place with no sunshine or corrosive gas, the temperature shall be within 10 °C ~ 30 °C and humidity within 30 % ~ 70 %. The validity storage period of OTCO is 12 months after purchase.
2. The case and isolated lead of OTCO are silver-plated. Therefore, to avoid vulcanization, the OTCO shall not be kept around materials such as cardboard or rubber etc. which generate sulfurous acid gas.

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Thermal-Link (OTCO)-Organic Type

Lead Process

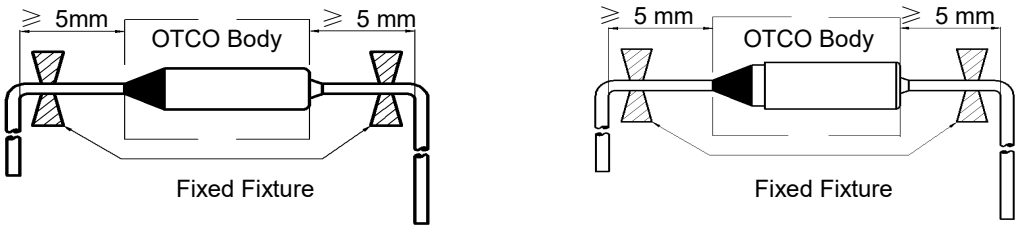

FIGURE 1

1. If lead wires has to be bent, it is important not to apply excessive pressure to the root of the lead wires. If the lead wire diameter is 1.0 mm, The tensile forces applied to the lead wires shall not exceed 15.7 N, and the thrust force applied to the lead wires shall not exceed 3.9 N. If the lead wire diameter is 1.2 mm, The tensile forces applied to the lead wires shall not exceed 22.7 N, and the thrust force applied to the lead wires shall not exceed 5.65 N.
2. The lead wires should be bent at a distance 5 mm or above from the body of OTCO (see Fig.1).
3. To avoid damaging the OTCO, when bending lead wires, please use pincher or similar tools to fix the OTCO.

Installation

Selection of Installation Location

1. Do not locate the OTCO in a place where severe vibration always occurs.
2. To reduce the deviations between the temperature design and the actual situation, it is recommended that the OTCO be installed in close to the thermostat or temperature sensor.

Make Sure the Temp. of Installation Location

1. The body of OTCO will generate heat as current flows through it, resulting the body temp. higher than ambient temp. The influence of temp. rise shall be considered in the design to determine the appropriate OTCO model.
2. Considering possible temperature shock situations, it is recommended that the temperature of the body and the ambient temperature of the installation location during the operation of the temperature fuse should not exceed (Th-10)°C.
3. The end product should be tested to ensure that potential abnormal conditions do not cause ambient temp. to exceed the T_m of the OTCO.

Mounting OTCO

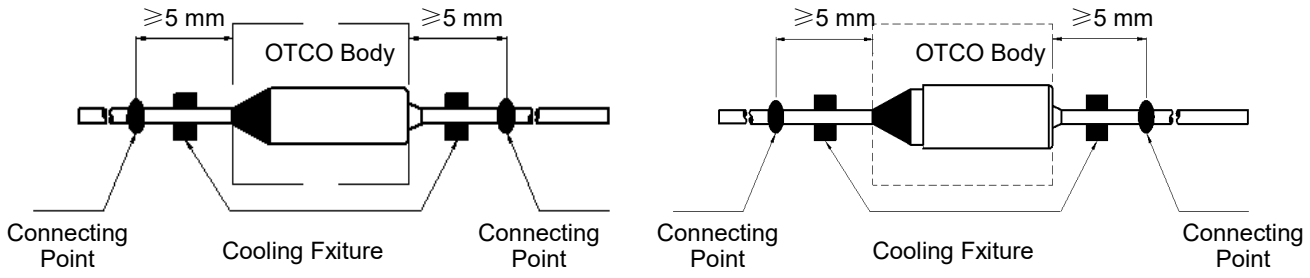

FIGURE 2

1. OTCO can be installed by soldering, welding, riveting or crimping. During and after installation, please do not pull, push or twist OTCO body or lead wires.
2. The connection point of the lead shall be no less than 5 mm away from the OTCO body (see Fig.2).
3. Try to ensure that the body of the OTCO is evenly heated. If the temp. difference is inevitable, make sure that the sealing resin side is connected close to the heat source.
4. **For DC circuits, when mounting the OTCO, the isolated lead should be connected to the negative pole, and the Case Lead should be connected to the positive pole.**

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Thermal-Link (OTCO)-Organic Type

Soldering

1. Soldering should be carried out according to below table. If secondary soldering is required, wait until the OTCO cools to room temp.
2. Soldering is not recommended for Thermal-Link with $T_f \leq 110°C$, while non heating processes such as crimping and riveting are recommended.
3. In the process of soldering, cooling fixture should be used between soldering point and OTCO body (see Fig.2).
4. It is recommended to take X-ray after soldering, to confirm that the thermal pellet has no shrinkage after soldering.

TABLE 1: Max. Allowable Soldering Time for Different Length of Soldering Point from OTCO Body

Rated Functioning Temp. (T_f)	Length	Time	Length	Time	Length	Time	Max. Soldering Temp.
(°C)	(mm)	(s)	(mm)	(s)	(mm)	(s)	(°C)
≤ 110	5	N / A	15	N / A	25	N / A	400
111 ~ 150	5	N / A	15	1	25	2	
151 ~ 190	5	1	15	2	25	3	
≥ 191	5	1	15	3	25	5	

Welding

1. Avoid welding current flowing into the inside of the OTCO. The welding current will cause the internal parts to be welded together, resulting in the failure function of OTCO.
2. During the welding process, the lead wires of the OTCO must be supported to avoid the damage of the OTCO.
3. In the process of welding, cooling fixture should be used between welding point and OTCO body (See Fig.2).
4. It is recommended to take X-ray after welding, to confirm that the thermal pellet has no shrinkage after welding.

Riveting or Crimping

1. Select materials with low resistance (such as copper) for riveting and crimping.
2. Contact resistance shall be as small as possible. Large contact resistance will cause high temp. to make OTCO open in advance.
3. It is better to crimp OTCO leads to stranded lead wires rather than solid wires as the stranded wire may be crimped tighter and maintain better electrical contact during temp. cycling.
4. During the riveting and crimping process, ensure that the lead wires shall not be reversed, sealing resin shall not be destroyed.
5. When the working temp. exceeds 150°C, soldering reinforcement is recommended after riveting and crimping.

The isolated lead is forbidden to contact OTCO body directly to avoid short circuit (See Fig.3).

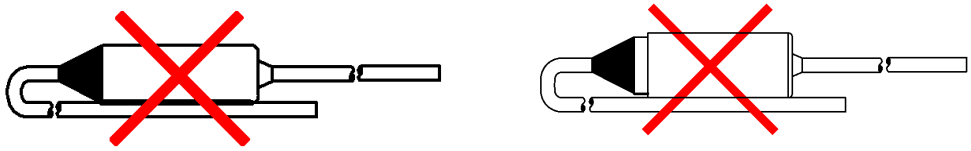

FIGURE 3

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