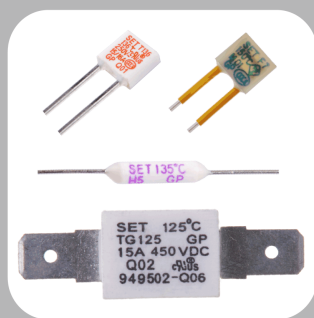


SETfuse

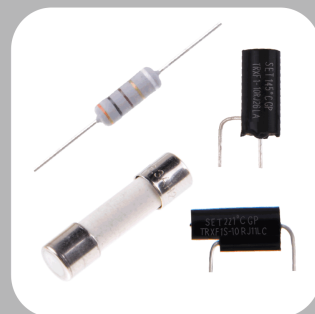
Design, Manufacture, Market Circuit Protection Components



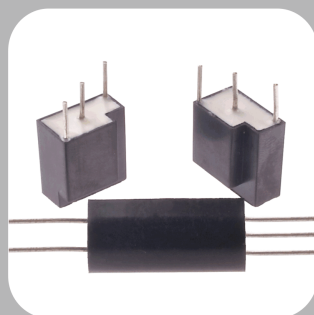
Over Temperature



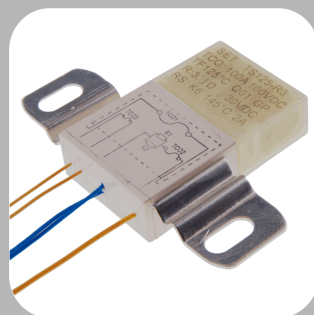
Over Voltage



Over Current



Multiple



Active

5

Company Profile

SETfuse is a company which is engaged in Designing and Manufacturing Circuit Protection Components and Providing Integrated Circuit Protection Solutions. SETfuse is specialized in the innovative protection fields of Over Temperature Protection, Over Current Protection, Over Voltage Protection, Active Protection and Multiple Protection, helping customers to improve the safety index of their products.

SETfuse Develops, Manufactures and Sells the products to the High Reliability markets of Industry, Electronic, New Energy and so on. It offers industry-leading Thermal-link (TCO), Metal Oxide Varistor (MOV), Thermal Fuse & MOV(TFMOV), Surge Protection Device (SPD), Wirewound Fusing Resistor (RXF), Thermal-link & Fusing Resistor (TRXF), Current Fuse (Fuse), Ideal Thermal Fuse (iTCO) and Protective Unit for Adaptor (PUA).

Product and Quality

SETfuse has 17 years innovative history and obtains a lot of patents. Breakthrough Innovation Design, Manufacturing Process and Automatic production put our products in a leading position in the industry. SETfuse has set up the UL authorized Lab under UL 1449 Standard and the Witness Test Data Program (WTDP) Lab under UL 60691 Standard. Professional Testing Equipment and perfect Quality (ISO9001), Environment (ISO14001), Occupational Health and Safety (OHSAS18000) management system make the products comply with RoHS and REACH. SETfuse's products are component-recognized in China as well as internationally by organizations such as CCC, UL, CUL, VDE, TUV, PSE and KTL. The stringent quality control method ensures the products with High Quality and Reliability.

Corporate Responsibility

SETfuse sells products all over the world. This means that we have more social responsibility. We offer and guarantee safe workplace and environment, to comply with laws and regulations.

Customer Relations

SETfuse's products are very important in the circuit protection field, we are committed to set up and maintain the excellent customer relations.

For more information about SETfuse, Welcome to our website: www.SETfuse.com

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Xiamen SET Electronics Co., Ltd.



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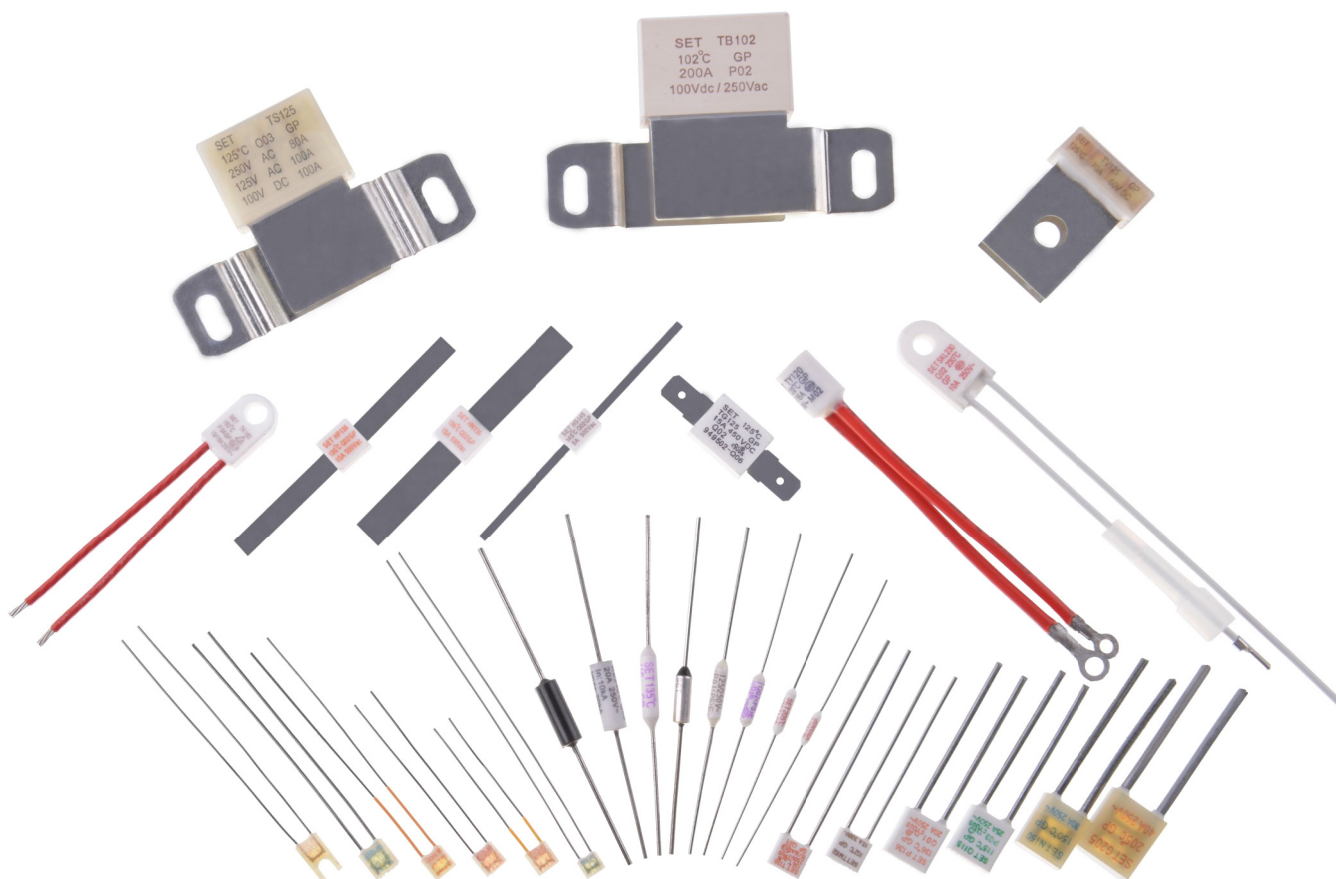
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Automatic Production Line

FOCUS

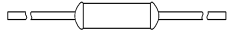
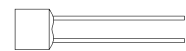
PROFESSIONAL



FEATURES AND BENEFITS

- NON-RESETTABLE OVER TEMP. PROTECTION
- HIGH ACCURACY OF FUNCTIONING TEMP.
- SEALED CONSTRUCTION
- LOW IMPEDANCE
- COMPACT CONSTRUCTION AND MINIATURIZED SIZE
- RATED CURRENT: (1 - 200) A
- RATED FUNCTIONING TEMP.: (76 - 230) °C
- RADIAL AND AXIAL SHAPES
- LEAD WIRES CAN BE INSULATED

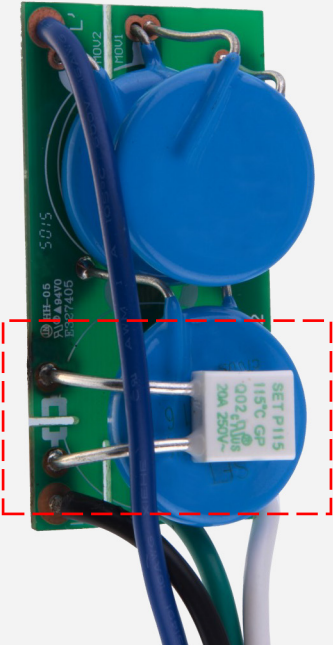
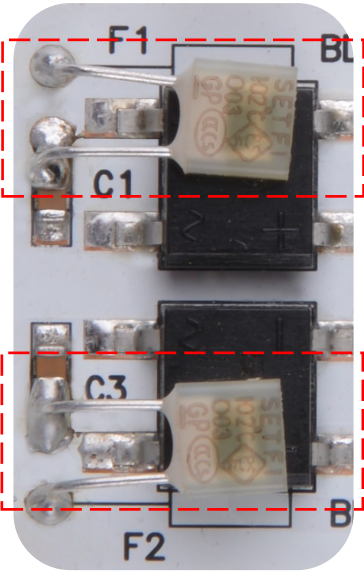
TCO(Thermal-link) Feature & Model List Overview

		P40	P41	P42	P43	P44	P45	P46	P47	P48	P49	P50	P51	P52	P53	P54	P55	P56	P57	P58	P59	P60	P61	P62	P63	P64	P65	P66	P67	P68	P69	P70	P71	P72	P73	P79	P80	P81	P82	Page	
T _r (°C) Rated Functioning Temp.	230																					SKL230																			
	221	V31 / H31	B31	C31	U31	R31			K31	KG31	X31	YG31										SK221		TK221																	
	205	V32 / H32	B32	C32	U32	R32			K32	KG32	X32	YG32										SK205		TK205																	
	200																					SKL200																			
	160	V16 / H16	B16	C16	U16	R16	F16	K16	KG16	X16	YG16				Y16							SK160		TK160																	
	150	V7	H7	B7	C7	U7	R7	F7	K7	KG7	X7	YG7	KM7	XM7	Y7	S150	T150	SM150	TM150			SK150		TK150			SD150	TD150	PD150	QD150	N150	G150	TS150	TB150		TG150					
	145	V6	H6	B6	C6	U6	R6	F6	K6	KG6	X6	YG6			Y6							SK145		TK145	SY145	TY145										HS145	HP145	HN145			
	139	V13	H13	B13	C13																																				
	136	V9	H9	B9	C9				K9	KG9	X9	YG9			Y9	S136	T136	SM136	TM136	P136	Q136						SD136	TD136	PD136	QD136	N136	G136	TS136	TB136	TV136	TG136	HS136	HP136	HN136		
	135	V5	H5	B5	C5	U5	R5		K5	KG5	X5	YG5	KM5	XM5								SK135		TK135																	
	133	V8	H8	B8	C8			F8	K8	KG8	X8	YG8			Y8																										
	130	V4	H4	B4	C4	U4	R4	F4	K4	KG4	X4	YG4	KM4	XM4	Y4							SK130		TK130	SY130	TY130	SD130	TD130	PD130	QD130	N130	G130	TS130	TB130		TG130					
	125	V3	H3	B3	C3	U3	R3	F3	K3	KG3	X3	YG3			Y3						P125	Q125	SK125		TK125	SY125	TY125	SD125	TD125	PD125	QD125	N125	G125	TS125	TB125	TV125	TG125/ TG125B	HS125	HP125	HN125	
	123																																								
	120																									SY120	TY120														
	115	V2	H2	B2	C2	U2	R2	F2	K2	KG2	X2	YG2			Y2	S115	T115	SM115	TM115	P115	Q115	SK115		TK115	SY115	TY115	SD115	TD115	PD115	QD115	N115	G115	TS115	TB115		TG115					
	105																									SY105	TY105														
	102	V1	H1	B1	C1	U1	R1	F1	K1	KG1	X1	YG1			Y1	S102	T102	SM102	TM102	P102	Q102	SK102		TK102			SD102	TD102	PD102	QD102	N102	G102	TS102	TB102		TG102					
	97	V21	H21	B21	C21																																				
	95																									SY95	TY95														
	86	V18	H18	B18	C18	U18	R18	F18	K18	KG18	X18	YG18			Y18																							TG86			
	76	V0	H0	B0	C0	U0	R0	F0	K0	KG0	X0	YG0			Y0																										
I _r (A) Rated Current	1	2	3	5	10	15	1	2	2	3	3	2	3	5	10	15 / 16	10	15 / 16	20	25	10	10	15 / 16	10	15 / 16	10	15 / 16	20	25	30	40	100	200	70	15	5	10	15			
Product Structure																																									
	Axial Shape						Radial Shape						RadialShape (Screw Hole)				Cylindrical	Radial Shape						Radial Shape (Flat Electrode)				Axial Shape (Flat Electrode)													

Application

Thermal-link

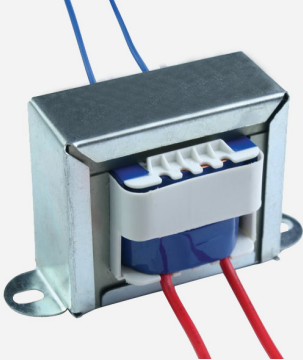
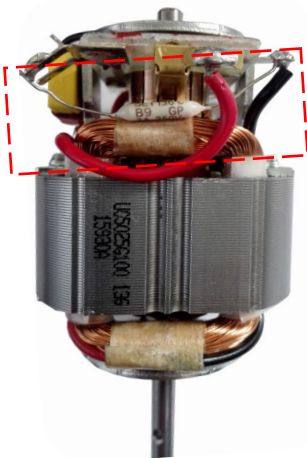
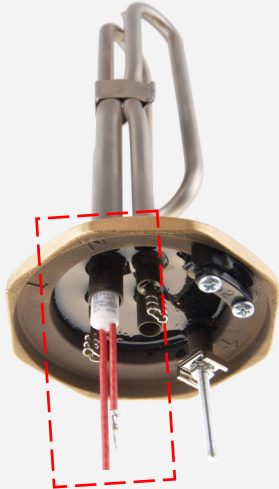
Thermal-link

Applications	Illustrations	Principle Instruction
Surge Protective Components, Such as MOV,GDT		TCO is designed to be in series with surge protective components in the circuit. When surge protective components degrade or be in other abnormal situations, overheating will happen. The heat is transferred to TCO from the surge protective components. Once the temperature reaches to the fusing temperature of TCO, TCO will open and be able to disconnect the surge protective components from the circuit.
Components on PCB		TCO is designed to be in series with the components in the circuit and they need to be connected tightly. When the components are in abnormal overheating situations, the heat is transferred to TCO. Once the temperature reaches to the fusing temperature of TCO, TCO will open the circuit.

Application

Thermal-link

Thermal-link

Applications	Illustrations	Principle Instruction
Coils of Transformer		TCO is designed to be in series with the input of the transformer and they need to be connected tightly. When the transformer is in abnormal overheating situations, the heat is transferred to TCO. Once the temperature reaches to the fusing temperature of TCO, TCO will open the circuit and the transformer stops working.
Motors		TCO is designed to be in series with the coil of the motor and they need to be connected tightly. When the motor is in abnormal overheating situations, the heat is transferred to TCO. Once the temperature reaches to the fusing temperature of TCO, TCO will open the circuit and the motor stops working.
Electrical Heating Devices		TCO is designed to be in series with the heating element of the electrical heating device and they need to be connected tightly. When the heating element is in abnormal overheating situations, the heat is transferred to TCO. Once the temperature reaches to the fusing temperature of TCO, TCO will open the circuit and the heating element stops heating.

Application

Telecom Field



Automobile Field

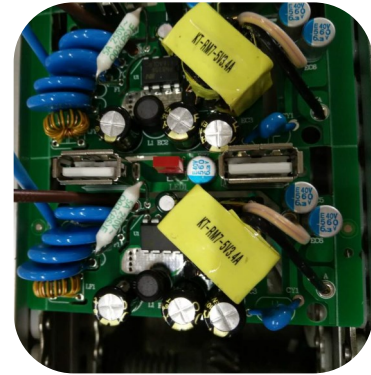
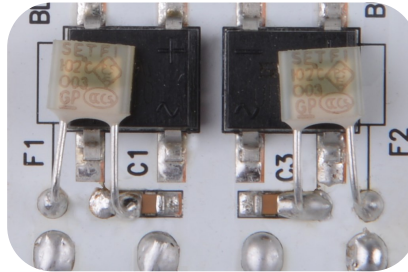
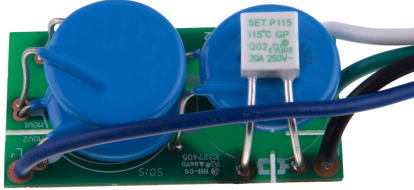


Home Appliance Field



Application

Field of Components on PCB



EV Field



Field of Industrial Control and Automation



Lighting Field



Without Thermal Protection



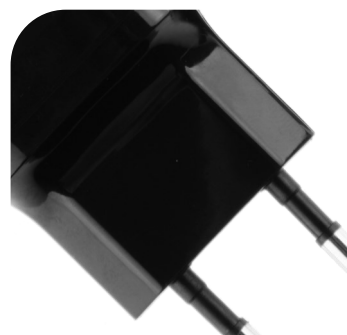
Risk of Fire



With Thermal Protection



Safety



Product Description

Alloy Thermal-link / Thermal Cutoff (TCO) is defined as a non-resettable protective device functioning one time only. It is widely used in electrical equipment. Alloy TCO is mainly consist of fusible alloy, flux, plastic or ceramic case, sealant epoxy and lead wires. Normally, fusible alloy is jointed to the two lead wires. Under abnormal conditions, when the temp. reaches to the fusing temp. of alloy TCO, the fusible alloy melts and quickly retracts to the two lead wire ends with the aid of the flux and disconnects the circuit completely. SET's alloy TCO is classified into Axial and Radial shapes, with Rated Current 1 A to 200 A, Rated Functioning Temp. 76 °C to 230 °C, with CCC, UL, CUL, VDE, TUV, KTL, PSE, Approvals and RoHS, REACH compliant.

Structure

Axial Shape

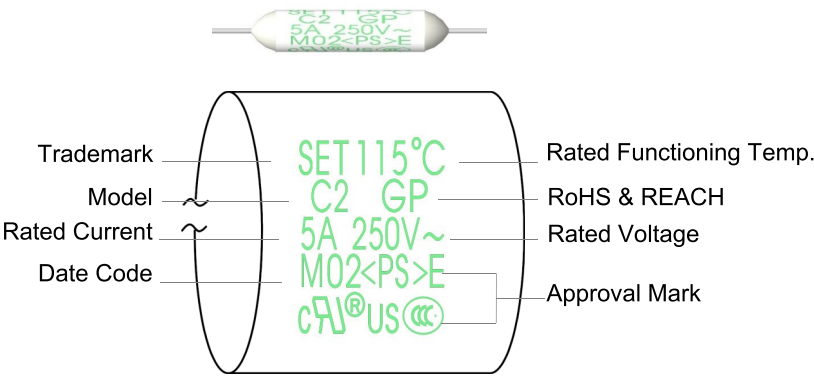


Radial Shape

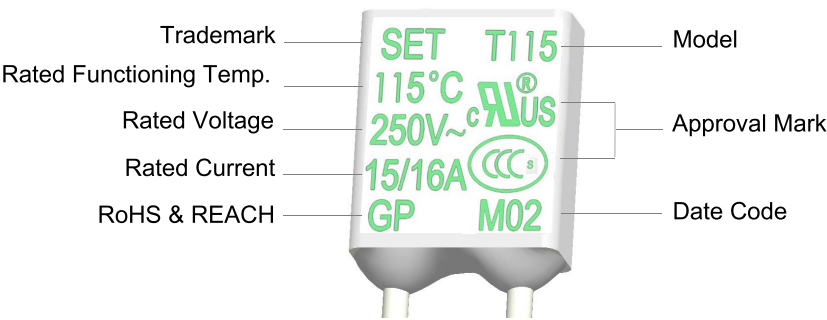


Marking

Axial Shape



Radial Shape



Marking Color

T_f (°C)	Printing Color	T_f (°C)	Printing Color
76	Brown	136	Blonde
86	Brown	139	Brown
97	Brown	145	Brown
102	Brown	150	Purple / Blue
115	Green	160	Brown
125	Black	200	Red
130	Red	205	Red
133	Brown	221	Red
135	Purple	230	Black

Glossary

Thermal Element

A metallic fusible material that is part of a TCO and is responsive to temp. by a change of state such as from solid to liquid at the temp. for which it has been calibrated.

—(IEC 60691)

Thermal-link

Thermal-link / Thermal Cutoff (TCO) / Thermal Fuse. A non-resettable device incorporating a TCO which will open a circuit once only when exposed for a sufficient length of time to a temp. in excess of that which it has been designed.

— (IEC 60691)

Rated Functioning Temp. (T_f)

The Temp. of the TCO which causes it to change its state of conductivity with a detection current up to 10 mA as the only load.

— (IEC 60691)

Fusing Temp.: The Temp. of the TCO which causes it to change its state of conductivity with a detection current up to 10 mA as the only load. It is measured with a silicone oil bath in which the Temp. is increased at the rate of $(0.5 - 1) ^\circ\text{C} / \text{min}$.

— (IEC 60691)

Tolerance: $T_f +0/-10 ^\circ\text{C}$ (GB 9816, UL 60691, EN60691, K60691)

Tolerance: $T_f \pm 7 ^\circ\text{C}$ (J60691)

Holding Temp. (T_h)

The max. temp. of product body surface at which a TCO will not change its state of conductivity when conducting rated current for 168 h.

— (IEC 60691)

Maximum Temp. Limit (T_m)

The temp. of the TCO stated by the manufacturer, up to which the mechanical and electrical properties of the TCO having changed its state of conductivity, will not be impaired for a given time.

— (IEC 60691)

Rated Current (I_r)

The current used to classify a TCO, which is the Maximum current that TCO allows to carry and is able to cut off the circuit safely.

— (IEC 60691)

Transient Overload Current (I_p)

A direct current pulse at which the TCO is able to withstand without impairing its characteristics.

— (IEC 60691)

Rated Voltage (U_r)

The voltage used to classify a TCO, which is the Maximum voltage that TCO allows to carry and is able to cut off the circuit safely.

— (IEC 60691)

Nominal Discharge Current (I_n)

Peak value of the current, selected by the manufacturer, through the SPD having a current wave shape of 8/20 μs where the SPD remains functional after 15 surges.

— (UL 1449)

Maximum Discharge Current ($I_{\max}$)

Crest value of a current through the SPD having an 8/20 μ s waveform and magnitude is specified by manufacturer, $I_{\max}$ is greater than I_n .

— (UL 1449)

8/20 μ s Current Wave

Current surge with a virtual front time of 8 μ s and a time to half-value of 20 μ s delivered into a short circuit.

— (UL 1449)

Agency Information

Agency Information		Standards	File NO.	Category
	UL	UL 60691	E214712	XCMQ2
	CUL	CAN-CSA-E60691	E214712	XCMQ8
	TUV	EN 60691	R50161758 / R50161772 / R50161777 / R50259029 / R50264747 R50260365 / R50337882 / R50337988 R50338012 / R50336499	
			R50112716 / R50259420 / R50259434 R50259363 / R50207621	
	VDE	EN 60691	40004041 / 40017055 / 40017057 / 40018082	
	PSE	J60691	PSE09020139 / PSE09020140 / PSE09020141 PSE09020142 / PSE09020143 / PSE09020144 PSE09020121 / PSE09020122 / PSE09020145 PSE09020146	
			PSE09020123 / PSE09020124	
	KTL	K60691	SU05023-6001A / SU05023-6002A SU05023-6003B	
			SU05023-11001 / SU05023-11002 SU05023-11003	
	CCC	GB 9816	2009010205346076 / 2009010205346083 2009010205346082 / 2009010205346078 2013010205622062 2012010205547368 / 2012010205547370 2009010205359744 / 2016010205848229 2016010205860214 / 2016010205860216 2016010205860222	
			2009010205350868 / 2009010205350867 2009010205350866 2011010205470983 / 2011010205470986	



ATTENTION

Usage

1. When atmosphere press is from 80 kPa to 106 kPa, the related altitude shall be from +2000 m to -500 m.
2. Operating voltage less than rated voltage of TCO, operating current less than rated current of TCO.
3. Do not touch the TCO body or pins directly when power is on, to avoid burn or electric shock.

Replace

TCO is a non-repairable product. For safety sake, it shall be replaced by an equivalent TCO, and mounted in the same way.

Storage

Do not store the TCO at the high temp., high humidity or corrosive gas condition, avoid influencing the solder-ability of the lead wires, the product shall be used within 1 year after your purchase.

Installation

Make Sure the Temp. of Installation Position

1. It is recommended that a dummy TCO with inbuilt thermo-couple shall be used to determine the proper temp.
2. The terminal product should be tested to ensure that potential abnormal conditions do not cause ambient temp. to exceed the T_m of the TCO.
3. Mount the TCO at the location where temp. rises evenly.

Attention

Installation position of mechanical performance requirements

1. Do not locate the TCO in a place where severe vibration always occurs.
2. Ensure that the lead wire is long enough, and avoid actions such as press, tensile or twist.
3. The seal or body of TCO must not be damaged, burned or over heated.

Soldering

Hand Soldering

1. Soldering should be carried out according to table 1 & table 2
2. The thermal element of TCO is fusible alloy with low melting point, which is jointed with TCO lead wires. Improper soldering operation (too high soldering temp. , too long soldering time, too short lead wire etc.) may transfer more heat to the thermal element and TCO may open in advance.
3. When soldering conditions are more severe than those listed in table 1 & table 2, a heat sink fixture should be used between soldering point and TCO body.
4. When soldering, please do not pull / push or twist TCO body or lead wires.
5. After soldering, let it naturally cool for longer than 20 s. During cooling, never move the TCO body or lead wires.

Attention

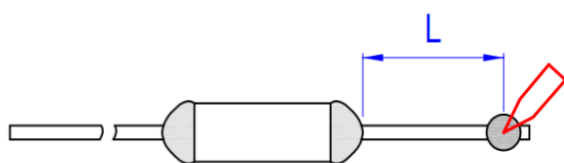
Table 1. Hand Soldering Time When the TCO Lead Wire is Tinned Copper Wire (s)

Rated Functioning Temp. T_f	Max. Allowable Soldering Time for Different Lead Wire Length						Max. Soldering Temp.
	L Length of Lead Wire	Max. Allowable Soldering Time	L Length of Lead Wire	Max. Allowable Soldering Time	L Length of Lead Wire	Max. Allowable Soldering Time	
(°C)	(mm)	(s)	(mm)	(s)	(mm)	(s)	(°C)
76 - 101	10	1 ^a	20	2	30	3	400
102 - 115	10	1 ^a	20	2	30	3	
116 - 135	10	1 ^a	20	3	30	5	
136 - 150	10	3	20	5	30	5	
151 - 230	10	4	20	6	30	7	

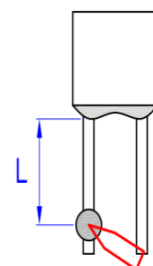
^a: Auxiliary Heat Sink Fixture is Required to Avoid TCO Cutting Off Unexpectedly.

Table 2. Hand Soldering Time When the TCO Lead Wire is Copper Plated (CP) wire (s)

Rated Functioning Temp. T_f	Max. Allowable Soldering Time when the Length of Lead Wire is Different (s)						Max. Soldering Temp.
	L Length of Lead Wire	Max. Allowable Soldering Time	L Length of Lead Wire	Max. Allowable Soldering Time	L Length of Lead Wire	Max. Allowable Soldering Time	
(°C)	(mm)	(s)	(mm)	(s)	(mm)	(s)	(°C)
76 - 101	10	4	20	5	30	6	400
102 - 115	10	4	20	5	30	6	
116 - 135	10	4	20	6	30	8	
136 - 150	10	6	20	8	30	8	
151 - 230	10	7	20	9	30	10	



Soldering Point



Soldering Point

Attention

Wave Soldering

Suitable for the lead wire of TCO is CP wire.

The wave soldering parameters as table 3, For reference only, when TCO is for practice use, you need to do some validation experiments. For example, using X-RAY to see the fusible alloy of TCO whether damage after wave soldering.

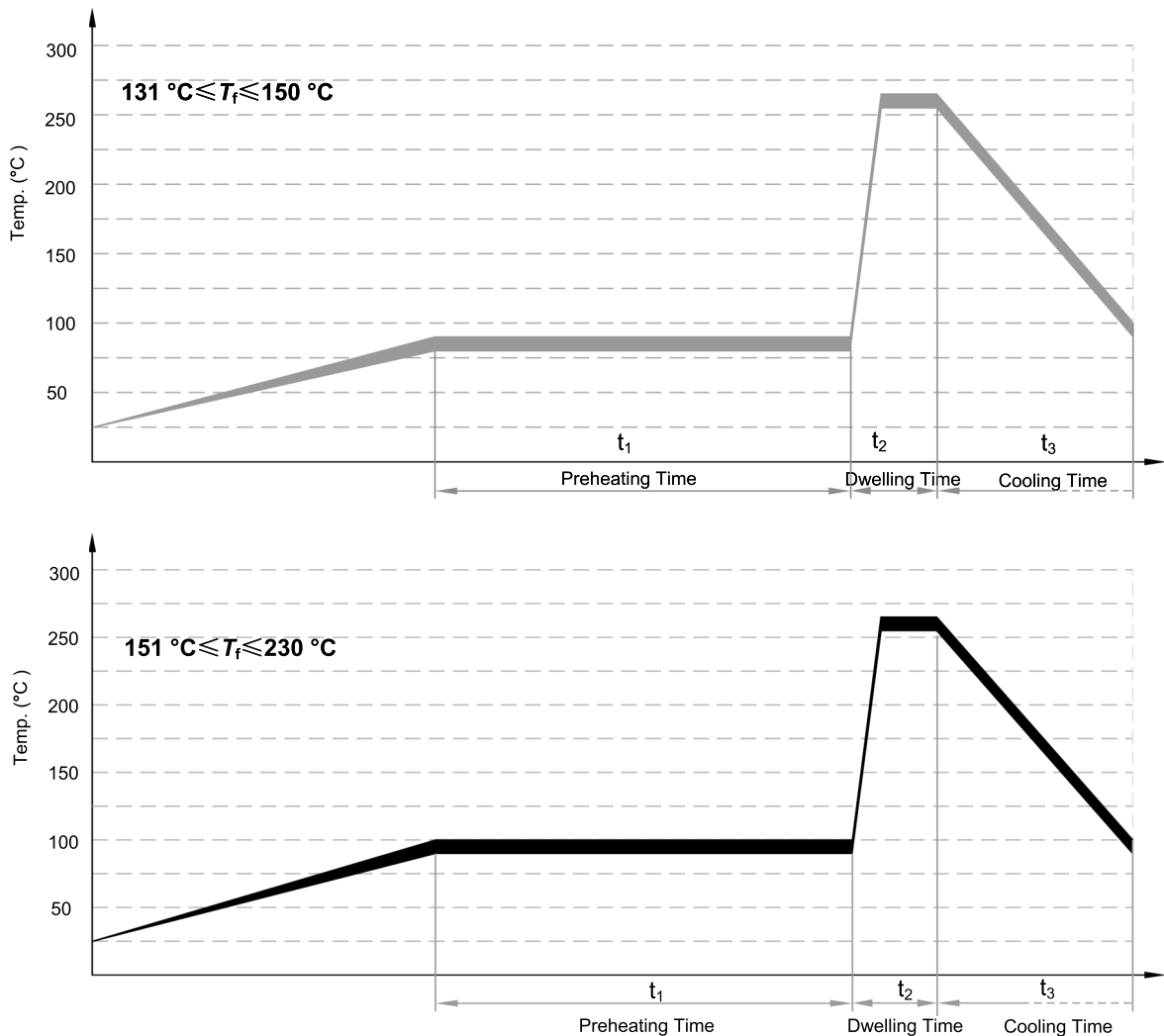


Table 3. Wave Soldering Parameters. setting

Rated Functioning Temp. T _f	Max. Allowable Preheating Temp. When the Length of Lead Wire is Different				Preheating Time (t ₁)	Max. Wave Soldering Temp.	Dip Time (t ₂)	Cooling Time (t ₃)
	The Length of lead wire	Preheating Temp.	The Length of lead wire	Preheating Temp.				
(°C)	(mm)	(°C)	(mm)	(°C)	(s)	(°C)	(s)	(s)
76 - 130	Advise Hand Soldering							
131 - 150	20	80	30	90	< 60	≤ 260	≤ 3	≤ 10
151 - 230	20	90	30	100	< 60	≤ 260	≤ 3	≤ 10

Attention

Mechanical Connection

Riveting

Suitable for the lead wire diameter (d) of TCO ≥ 1.2 mm .

1. Choose small resistivity riveting material and be riveted.
2. A flexible lead or lead with low resistance should be used to rivet the TCO.
3. Contact resistance should be minimal, Large contact resistance will lead to higher temp., TCO Functioning in advance

Crimping

Suitable for the lead wire is flat electrode.

1. Choose small resistivity crimping material and be riveted.
2. Crimping process, to ensure that the lead will not be reversed, sealing resin will not be destroyed.
3. Contact resistance should be minimal, Large contact resistance will lead to higher temp., TCO Functioning in advance

Lead Wire Bending

1. If the lead wire has to be bent, please pay attention to the distance between body and the bending point. Refer to the following table.

Lead Wire is Round	D (mm)	$\leq \Phi 1.0$	$\Phi 1.0 - \Phi 1.2$	$> \Phi 1.2$
	L ₁ (mm)	≥ 3	≥ 5	≥ 10

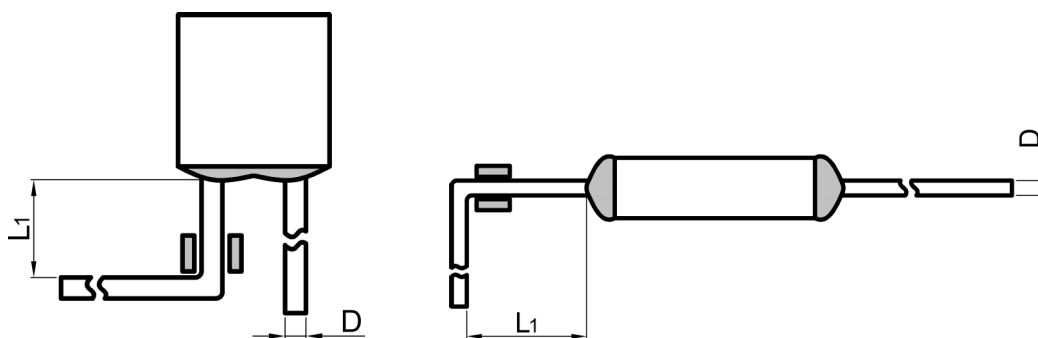


Fig.1

Attention

Lead Wire Bending

Lead Wire is Flat	t (mm)	≤ 0.25	0.25 - 0.5	> 0.5
	L ₂ (mm)	≥ 3	≥ 5	≥ 10

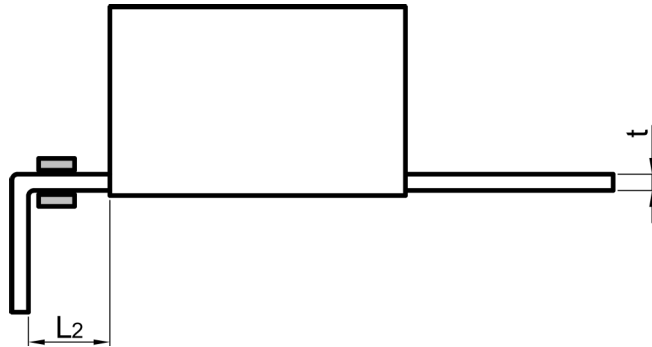
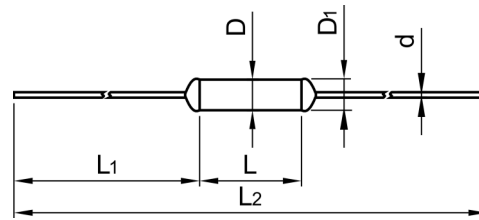
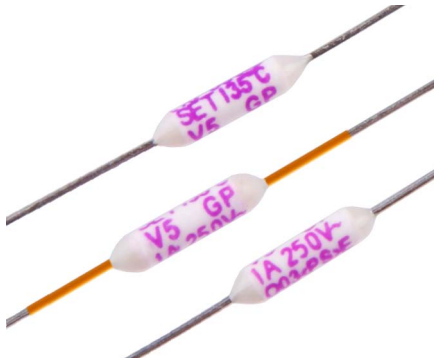


Fig.2

- 2. When bending the leads, please use pincher or similar tools to fix the product as shown in Fig.1 / Fig.2 , to avoid damaging the product.
- 3. During forming and mounting, lead wire should not be cut, nicked, bent sharply, to avoid breaking the product.
- 4. Tangential forces on the leads must be avoided (i.e. pushing or pulling on the leads at angle to TCO body) as such forces may damage the seal of TCO.



Dimensions (mm)

L	L ₁	L ₂	D	D ₁	d
6.5±0.5	37±2	80.5±3.0	Φ2.1±0.5	≤Φ2.6	Φ0.50±0.05

Key Features

- Ceramic Case
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Applications

- Electric Blankets
- Electric Aroma Diffusers
- Home Electrical Appliances
- Motors
- Lamps
- Switched-mode Power Supply
- Transformers

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Taping Packing Available
- Lead Wires Can be Insulated

Packaging Information

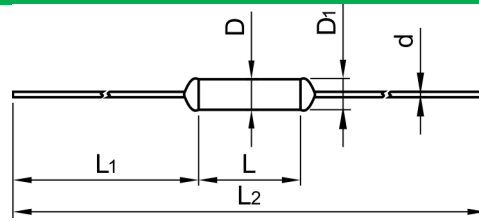
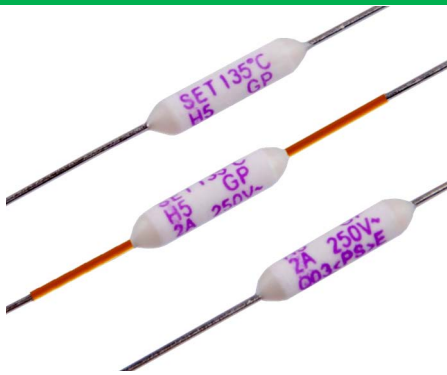
- Q'TY: 50 kPCS/Carton
- Carton Size: 440 × 300 × 260 (mm)

Agency Information

- CCC: 2009010205350868
- UL / CUL: E214712
- TUV: R50112716
- KTL: SU05023-11001/2/3
- PSE: 15020870/71/72/73/74

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (V)	UL [®]	CUL [®]	TUV [®]	PSE [®]	CCC [®]	KTL [®]	RoHS REACH
V0	76	73±2	53	200	1	AC 250			•	•	•	•	•
						AC 125	•	•					•
						DC 50	•	•					•
V18	86	81±2	61	200	1	AC 250			•	•	•	•	•
						AC 125	•	•					•
						DC 50	•	•					•
V21	97	93±2	70	200	1	AC 125	•	•					•
						DC 50	•	•					•
V1	102	98±2	79	200	1	AC 250			•	•	•	•	•
						AC 125	•	•					•
						DC 50	•	•					•
V2	115	111±2	91	200	1	AC 250	•	•	•	•	•	•	•
						DC 50	•	•					•
V3	125	121±2	100	200	1	AC 250	•	•	•	•	•	•	•
						DC 50	•	•					•
V4	130	125±2	106	200	1	AC 250	•	•	•	•	•	•	•
						DC 50	•	•					•
V8	133	130±2	111	200	1	AC 250	•	•	•	•	•	•	•
						DC 50	•	•					•
V5	135	130±2	111	200	1	AC 250	•	•	•	•	•	•	•
						DC 50	•	•					•
V9	136	131±2	112	200	1	AC 250	•	•	•	•	•	•	•
						DC 50	•	•					•
V13	139	135±2	115	200	1	AC 250	•	•	•	•	•	•	•
						DC 50	•	•					•
V6	145	140±2	121	200	1	AC 250	•	•	•	•	•	•	•
						DC 50	•	•					•
V7	150	145±2	126	200	1	AC 250	•	•	•	•	•	•	•
						DC 50	•	•					•



Dimensions (mm)

L	L ₁	L ₂	D	D ₁	d
9.0±0.5	36±2	81±3	Φ2.5±0.5	≤Φ3.0	Φ0.54±0.05

Key Features

- Ceramic Case
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Applications

- Electric Blankets
- Electric Aroma Diffusers
- Home Electrical Appliances
- Motors
- Lamps
- Switched-mode Power Supply
- Transformers

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Taping Packing Available
- Lead Wires Can be Insulated

Packaging Information

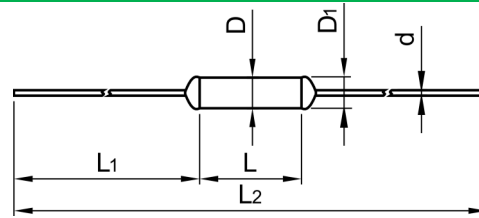
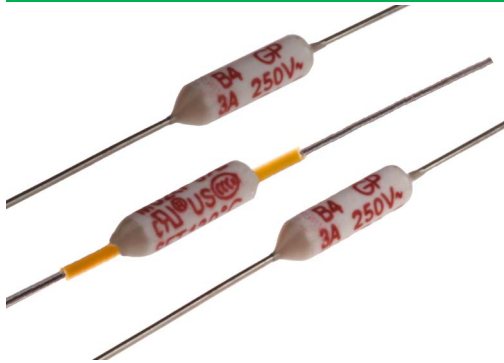
- Q'TY: 50 kPCS/Carton
- Carton Size: 440 × 300 × 260 (mm)

Agency Information

- CCC: 2009010205350867
2011010205470983
- UL / CUL: E214712
- TUV: R50259420
- KTL: SU05023-11001/2/3
- PSE: 15020870/71/72
73/74/75/76

Specifications

Model	T _f	Fusing Temp.	T _h	T _m	I _r	U _r	UL	CUL	TUV	PSE	CCC	KTL	RoHS	REACH
	(°C)	(°C)	(°C)	(°C)	(A)	(V)								
H0	76	73±2	53	200	2	AC 250			•	•	•	•	•	•
						AC 125	•	•					•	•
						DC 50	•	•					•	•
H18	86	81±2	61	200	2	AC 250			•	•	•	•	•	•
						AC 125	•	•					•	•
						DC 50	•	•					•	•
H21	97	93±2	70	200	2	AC 125	•	•		•			•	•
						DC 50	•	•					•	•
H1	102	98±2	79	200	2	AC 250			•	•	•	•	•	•
						AC 125	•	•					•	•
						DC 50	•	•					•	•
H2	115	111±2	91	200	2	AC 250	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
H3	125	121±2	100	200	2	AC 250	•	•	•	•	•	•	•	•
						DC 60	•	•					•	•
H4	130	125±2	106	200	2	AC 250	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
H8	133	130±2	111	200	2	AC 250	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
H5	135	130±2	111	200	2	AC 250	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
H9	136	131±2	112	200	2	AC 250	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
H13	139	135±2	115	200	2	AC 250	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
H6	145	140±2	121	200	2	AC 250	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
H7	150	145±2	126	200	2	AC 250	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
V16/ H16	160	154±2	135	200	1 / 2	AC 250			•	•	•	•	•	•
						DC 60			•		•		•	•
V32/ H32	205	199±3	169	250	1 / 2	AC 250			•		•		•	•
						AC 125	•	•					•	•
						DC 60	•	•	•		•		•	•
V31/ H31	221	218±2	188	250	1 / 2	AC 250	•	•	•		•		•	•
						AC 125	•	•					•	•
						DC 60	•	•	•		•		•	•



Dimensions (mm)

L	L ₁	L ₂	D	D ₁	d
10.0±0.5	35±2	80±3	Φ3.0±0.5	≤Φ3.5	Φ0.54±0.05

Key Features

- Ceramic Case
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Applications

- Electric Blankets
- Electric Aroma Diffusers
- Home Electrical Appliances
- Motors
- Lamps
- Switched-mode Power Supply
- Transformers

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Taping Packing Available
- Lead Wires Can be Insulated

Packaging Information

- Q'TY: 50 kPCS/Carton
- Carton Size: 440 × 300 × 260 (mm)

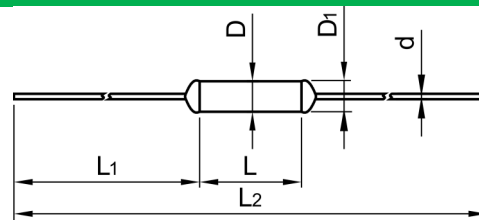
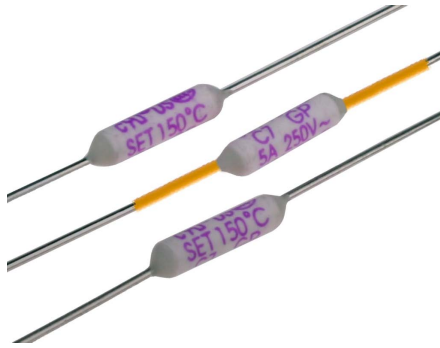
Agency Information

- CCC: 2009010205350867
- UL / CUL: E214712
- TUV: R50259434
- KTL: SU05023-11001/2/3
- PSE: 15020870/71/72

73/74/75/76

Specifications

Model	T _f	Fusing Temp.	T _h	T _m	I _r	U _r	UL	CUL	TUV	PSE	CCC	KTL	RoHS	REACH
	(°C)	(°C)	(°C)	(°C)	(A)	(V)								
B0	76	73±2	53	200	3	AC 250			•	•	•	•	•	•
						AC 125	•	•					•	•
						DC 50	•	•					•	•
B18	86	81±2	61	200	3	AC 250			•	•	•	•	•	•
						AC 125	•	•					•	•
						DC 50	•	•					•	•
B21	97	93±2	70	200	3	AC 125	•	•		•			•	•
						DC 50	•	•					•	•
B1	102	98±2	79	200	3	AC 250			•	•	•	•	•	•
						AC 125	•	•					•	•
						DC 50	•	•					•	•
B2	115	111±2	91	200	3	AC 125	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
B3	125	121±2	100	200	3	AC 125	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
B4	130	125±2	106	200	3	AC 125	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
B8	133	130±2	111	200	3	AC 125	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
B5	135	130±2	111	200	3	AC 125	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
B9	136	131±2	112	200	3	AC 125	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
B13	139	135±2	115	200	3	AC 125	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
B6	145	140±2	121	200	3	AC 125	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
B7	150	145±2	126	200	3	AC 125	•	•	•	•	•	•	•	•
						DC 50	•	•					•	•
B16	160	154±2	135	200	3	AC 250			•	•	•		•	•
						DC 60			•				•	•
B32	205	199±3	169	250	3	AC 250			•		•		•	•
						AC 125	•	•					•	•
						DC 60	•	•	•				•	•
B31	221	218±2	188	250	3	AC 250	•	•	•		•		•	•
						AC 125	•	•					•	•
						DC 60	•	•	•				•	•



Dimensions (mm)

L	L ₁	L ₂	D	D ₁	d
11.5±0.5	35±2	81.5±3.0	Φ3.3±0.5	≤Φ3.8	Φ0.80±0.05

Key Features

- Ceramic Case
- Non-resettable
- Alloy Type Thermal-link
- RoHS & REACH Compliant

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	I_n	I_{max}	I_n	I_{max}	UL	CUL	TUV	PSE	CCC	KTL	RoHS	REACH
	(°C)	(°C)	(°C)	(°C)	(A)	(V)	8/20 μs	8/20 μs	(15 Times)	(1 Time)								
C0	76	73±2	53	200	5	AC 250	2	4										
						AC 250	2	4										
C18	86	81±2	61	200	5	AC 125	2	4										
						DC 50	2	4										
C21	97	93±2	70	200	5	AC 125	2	4										
						DC 50	2	4										
						AC 250	3	6										
C1	102	98±2	77	200	5	AC 125	3	6										
						DC 50	3	6										
C2	115	111±2	89	200	5	AC 250	3	6										
					7	DC 50	3	6										
C3	125	121±2	98	200	5	AC 250	3	6										
					7	DC 50	3	6										
C4	130	125±2	103	200	5	AC 250	3	6										
					7	DC 50	3	6										
C8	133	130±2	108	200	5	AC 250	3	6										
					7	DC 50	3	6										
C5	135	130±2	108	200	5	AC 250	3	6										
					7	DC 50	3	6										
C9	136	131±2	111	200	5	AC 250	3	6										
					7	DC 50	3	6										
C13	139	135±2	112	200	5	AC 250	3	6										
					7	DC 50	3	6										
C6	145	140±2	118	200	5	AC 250	3	6										
					7	DC 50	3	6										
C7	150	145±2	123	200	5	AC 250	3	6										
					7	DC 50	3	6										
C16	160	154±2	133	200	5	AC 250	3	6										
						DC 60	3	6										
C32	205	199±3	167	250	5	AC 125	3.5	7										
						DC 60	3.5	7										
						AC 250	3.5	7										
C31	221	218±2	186	250	5	AC 125	3.5	7										
						DC 60	3.5	7										

Applications

- Capacitors
- Power Strips
- Home Electrical Appliances
- Motors
- Lamps
- Switched-mode Power Supply
- Transformers

Customization

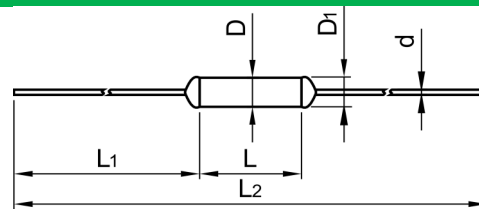
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Taping Packing Available
- Lead Wires Can be Insulated

Packaging Information

- Q'TY: 30 kPCS/ Carton
- Carton Size: 440 × 300 × 260 (mm)

Agency Information

- CCC: 2009010205350866
- UL / CUL: E214712
- TUV: R50259363
- KTL: SU05023-11001/2/3
- PSE: 15020870/71/72
73/74/75/76



Dimensions (mm)

L	L ₁	L ₂	D	D ₁	d
14.0±0.5	34±2	82±3	Φ4.0±0.5	≤Φ4.5	Φ1.05±0.05

Key Features

- Ceramic Case
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Applications

- Capacitors
- Power Strips
- Home Electrical Appliances
- Motors
- Lamps
- Switched-mode Power Supply
- Transformers

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Taping Packing Available
- Lead Wires Can be Insulated

Packaging Information

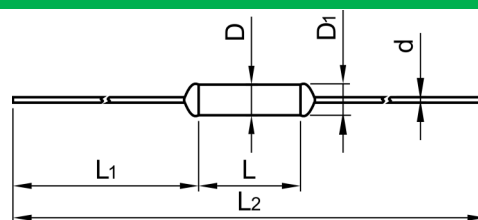
- Q'TY:
15 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2011010205470986
- TUV: R50207621

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	I_n 8/20 μ s (15 Times)	I_{max} 8/20 μ s (1 Time)	CCC	TUV	RoHS REACH
	(°C)	(°C)	(°C)	(°C)	(A)	(V)	(kA)	(kA)	CCC	TUV	
U0	76	73±2	43	200	10	AC 250	3	6	•	•	•
						DC 60	3	6	•	•	•
U18	86	81±2	51	200	10	AC 250	3	6	•	•	•
						DC 60	3	6	•	•	•
U1	102	98±2	72	200	10	AC 250	4	8	•	•	•
						DC 60	4	8	•	•	•
U2	115	111±2	85	200	10	AC 250	4	8	•	•	•
						DC 60	4	8	•	•	•
U3	125	121±2	95	200	10	AC 250	4	8	•	•	•
						DC 60	4	8	•	•	•
U4	130	125±2	100	200	10	AC 250	4	8	•	•	•
						DC 60	4	8	•	•	•
U5	135	130±2	105	200	10	AC 250	4	8	•	•	•
						DC 60	4	8	•	•	•
U6	145	140±2	115	200	10	AC 250	4	8	•	•	•
						DC 60	4	8	•	•	•
U7	150	145±2	120	200	10	AC 250	4	8	•	•	•
						DC 60	4	8	•	•	•
U16	160	155±2	130	200	10	AC 250	4	8	•	•	•
						DC 60	4	8	•	•	•
U32	205	199±3	167	250	10	AC 250	5	10	•	•	•
						DC 60	5	10	•	•	•
U31	221	218±2	186	250	10	AC 250	5	10	•	•	•
						DC 60	5	10	•	•	•



Dimensions (mm)

L	L ₁	L ₂	D	D ₁	d
14.0±0.5	34±2	82±3	Φ4.0±0.5	≤Φ4.5	Φ 1.2±0.05

Key Features

- Ceramic Case
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Applications

- Capacitors
- Power Strips
- Home Electrical Appliances
- Motors
- Lamps
- Switched-mode Power Supply
- Transformers

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Taping Packing Available
- Lead Wires Can be Insulated

Packaging Information

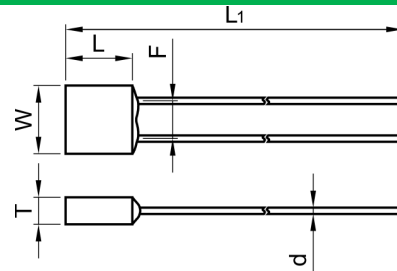
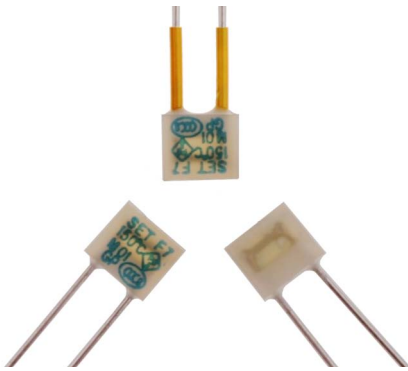
- Q'TY:
15 kPCS/Cartron
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC:2011010205470986
- TUV:R50207621

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (V)	I_n 8/20 μs (15 Times) (kA)	I_{max} 8/20 μs (1 Time) (kA)	CCC	TUV	RoHS REACH
R0	76	73±2	43	200	15	AC 250	5	10	•	•	•
						DC 60	5	10	•	•	•
R18	86	81±2	51	200	15	AC 250	5	10	•	•	•
						DC 60	5	10	•	•	•
R1	102	98±2	72	200	15	AC 250	6	12	•	•	•
						DC 60	6	12	•	•	•
R2	115	111±2	85	200	15	AC 250	6	12	•	•	•
						DC 60	6	12	•	•	•
R3	125	121±2	95	200	15	AC 250	6	12	•	•	•
						DC 60	6	12	•	•	•
R4	130	125±2	100	200	15	AC 250	6	12	•	•	•
						DC 60	6	12	•	•	•
R5	135	130±2	105	200	15	AC 250	6	12	•	•	•
						DC 60	6	12	•	•	•
R6	145	140±2	115	200	15	AC 250	6	12	•	•	•
						DC 60	6	12	•	•	•
R7	150	145±2	120	200	15	AC 250	6	12	•	•	•
						DC 60	6	12	•	•	•
R16	160	155±2	130	200	15	AC 250	6	12	•	•	•
						DC 60	6	12	•	•	•
R32	205	199±3	167	250	15	AC 250	7	14	•	•	•
						DC 60	7	14	•	•	•
R31	221	218±2	186	250	15	AC 250	7	14	•	•	•
						DC 60	7	14	•	•	•



Dimensions (mm)

L	L ₁	W	T	d	F
4.1±0.5	60±2	5.2±0.5	2.3±0.2	Φ0.50±0.05	3.2±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (Vac)	UL	CUL	PSE	VDE	TUV	CCC	KT	RoHS	REACH
F0	76	73±2	53	200	1	250	•	•	•			•		•	•
F18	86	81±2	61	200	1	250	•	•	•			•		•	•
F1	102	98±2	79	200	1	250	•	•	•	•	•	•	•	•	•
F2	115	111±2	91	200	1	250	•	•	•	•	•	•	•	•	•
F3	125	121±2	100	200	1	250	•	•	•	•	•	•	•	•	•
F4	130	125±2	106	200	1	250	•	•	•	•	•	•	•	•	•
F8	133	130±2	111	200	1	250	•	•	•	•		•	•	•	•
F6	145	140±2	121	200	1	250	•	•	•						•
F7	150	145±2	126	200	1	250	•	•	•	•	•	•	•	•	•
F16	160	154±2	135	200	1	250			•			•		•	•

Applications

- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Transformers
- Motors
- Batteries

Customization

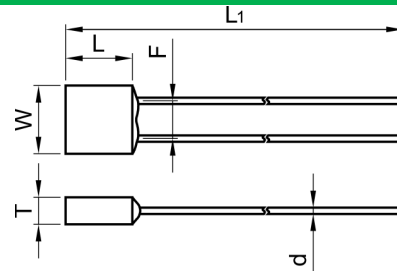
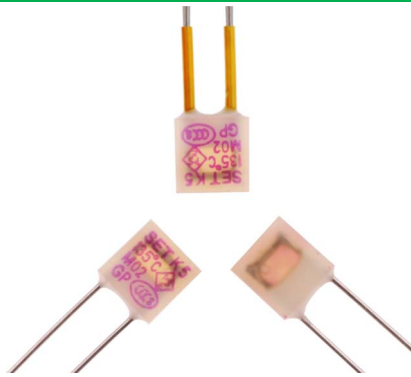
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can be Insulated
- Tinned Copper Wires or CP Wires

Packaging Information

- Q'TY:
50 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2009010205346076
- UL / CUL: E214712
- TUV: R50161758
- VDE: 40004041
- KTL: SU05023-6002A/6003B
- PSE: PSE16021063/64/65/66/67/68



Dimensions (mm)

L	L ₁	W	T	d	F
5.8±0.5	70±2	5.8±0.5	2.3±0.2	Φ 0.54±0.05	3.7±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Applications

- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Transformers
- Motors
- Batteries

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can be Insulated
- Tinned Copper Wires or CP Wires

Packaging Information

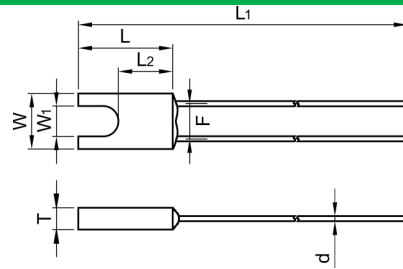
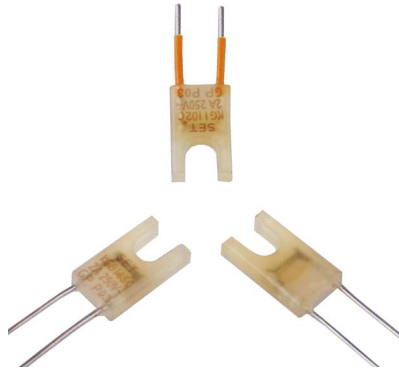
- Q'TY:
50 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2009010205346083
- UL / CUL: E214712
- TUV: R50161772/779
- VDE: 40017055
- KTL: SU05023-
6001A/6002A/6003B
- PSE: PSE16021063/64/65/
66/67/68

Specifications

Model	T _f (°C)	Fusing Temp. (°C)	T _h (°C)	T _m (°C)	I _r (A)	U _r (V)	UL	CUL	PSE	VDE	TUV	CCC	KTL	RoHS	REACH
K0	76	73±2	53	200	2	AC 250	•	•	•			•		•	
K18	86	81±2	61	200	2	AC 250	•	•	•	•		•	•	•	
						DC 60	•	•						•	
K1	102	98±2	79	200	2	AC 250	•	•	•	•	•	•	•	•	
						DC 60	•	•						•	
K2	115	111±2	91	200	2	AC 250	•	•	•	•	•	•	•	•	
						DC 60	•	•						•	
K3	125	121±2	100	200	2	AC 250	•	•	•	•	•	•	•	•	
						DC 60	•	•						•	
K4	130	125±2	106	200	2	AC 250	•	•	•	•	•	•	•	•	
K8	133	130±2	111	200	2	AC 250	•	•	•	•		•	•	•	
K5	135	130±2	111	200	2	AC 250	•	•	•	•		•	•	•	
K9	136	131±2	112	200	2	AC 250	•	•	•	•		•	•	•	
K6	145	140±2	121	200	2	AC 250	•	•	•	•		•	•	•	
K7	150	145±2	126	200	2	AC 250	•	•	•	•	•	•	•	•	
K16	160	154±2	135	200	2	AC 250			•			•		•	
K32	205	199±3	169	250	2	AC 250	•	•			•	•		•	
K31	221	218±2	188	250	2	AC 250	•	•			•	•		•	



Dimensions (mm)

L	L ₁	L ₂	W	W ₁	T	d	F
10.0±0.5	74±2	5.8±0.5	5.8±0.5	3.2±0.5	2.3±0.2	Φ0.54±0.05	3.7±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- Make a Mounting Hole
- RoHS & REACH Compliant

Applications

- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Batteries

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can be Insulated
- Tinned Cper Wires or CP Wires

Packaging Information

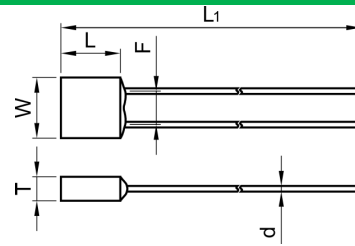
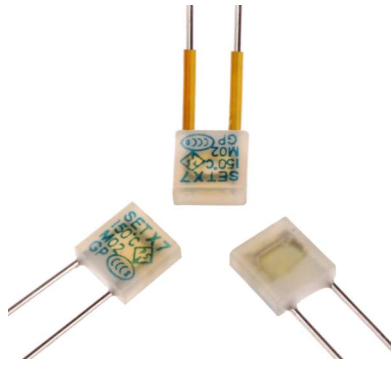
- Q'TY:
15 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2009010205346083
- UL / CUL: E214712
- PSE: PSE16021063/64/65/
66/67/68

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (V)	UL [®]	CUL [®]	CCC [®]	PSE [®]	ROHS REACH
KG0	76	73±2	53	200	2	AC 250	•	•	•	•	•
KG18	86	81±2	61	200	2	AC 250	•	•	•	•	•
						DC 60	•	•			•
KG1	102	98±2	79	200	2	AC 250	•	•	•	•	•
						DC 60	•	•			•
KG2	115	111±2	91	200	2	AC 250	•	•	•	•	•
						DC 60	•	•			•
KG3	125	121±2	100	200	2	AC 250	•	•	•	•	•
						DC 60	•	•			•
KG4	130	125±2	106	200	2	AC 250	•	•	•	•	•
KG8	133	130±2	111	200	2	AC 250	•	•	•	•	•
KG5	135	130±2	111	200	2	AC 250	•	•	•	•	•
KG9	136	131±2	112	200	2	AC 250	•	•	•	•	•
KG6	145	140±2	121	200	2	AC 250	•	•	•	•	•
KG7	150	145±2	126	200	2	AC 250	•	•	•	•	•
KG16	160	154±2	135	200	2	AC 250			•	•	•
KG32	205	199±3	169	250	2	AC 250	•	•	•	•	•
KG31	221	218±2	188	250	2	AC 250	•	•	•	•	•



Dimensions (mm)

L	L ₁	W	T	d	F
5.8±0.5	70±2	5.8±0.5	2.3±0.2	Φ0.54±0.05	3.7±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (V)	UL	CUL	PSE	VDE	TUV	CCC	KTL	RoHS REACH
X0	76	73±2	53	200	3	AC 250	•	•	•	•	•	•	•	•
X18	86	81±2	61	200	3	AC 250	•	•	•	•	•	•	•	•
						DC 60	•	•	•	•	•	•	•	•
X1	102	98±2	79	200	3	AC 250	•	•	•	•	•	•	•	•
						DC 60	•	•	•	•	•	•	•	•
X2	115	111±2	91	200	3	AC 250	•	•	•	•	•	•	•	•
						DC 60	•	•	•	•	•	•	•	•
X3	125	121±2	100	200	3	AC 250	•	•	•	•	•	•	•	•
						DC 60	•	•	•	•	•	•	•	•
X4	130	125±2	106	200	3	AC 250	•	•	•	•	•	•	•	•
X8	133	130±2	111	200	3	AC 250	•	•	•	•	•	•	•	•
X5	135	130±2	111	200	3	AC 250	•	•	•	•	•	•	•	•
X9	136	131±2	112	200	3	AC 250	•	•	•	•	•	•	•	•
X6	145	140±2	121	200	3	AC 250	•	•	•	•	•	•	•	•
X7	150	145±2	126	200	3	AC 250	•	•	•	•	•	•	•	•
X16	160	154±2	135	200	3	AC 250	•	•	•	•	•	•	•	•
X32	205	199±3	169	250	3	AC 250	•	•	•	•	•	•	•	•
X31	221	218±2	188	250	3	AC 250	•	•	•	•	•	•	•	•

Applications

- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Transformers
- Motors
- Batteries

Customization

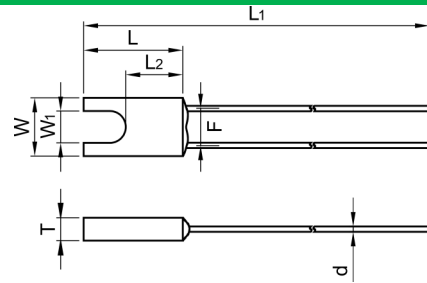
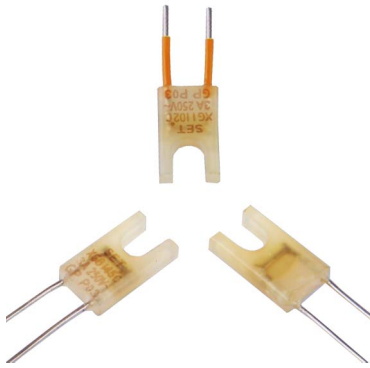
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can be Insulated
- Tinned Copper Wires or CP Wires

Packaging Information

- Q'TY:
15 kPCS/ Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2009010205346083
- UL / CUL: E214712
- TUV: R50161779
- VDE: 40017055
- KTL: SU05023-
6001A/6003A/6003B
- PSE: PSE16021063/64/65/
66/67/68



Dimensions (mm)

L	L ₁	L ₂	W	W ₁	T	d	F
10.0±0.5	74±2	5.8±0.5	5.8±0.5	3.2±0.5	2.3±0.2	Φ0.54±0.05	3.7±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- Make a Mounting Hole
- RoHS & REACH Compliant

Applications

- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Batteries

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can be Insulated
- Tinned Copper Wires or CP Wires

Packaging Information

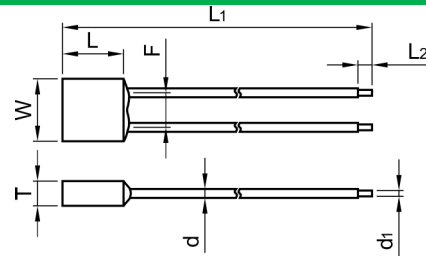
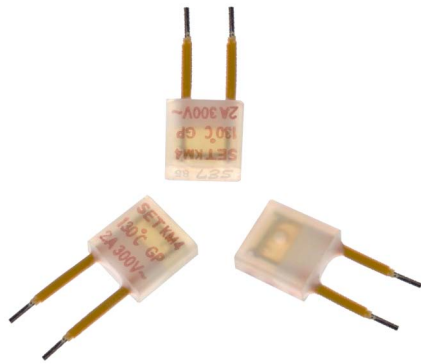
- Q'TY: 50 kPCS/ Carton
- Carton Size: 440 × 300 × 260 (mm)

Agency Information

- CCC: 2009010205346083
- UL / CUL: E214712
- PSE: PSE16021063/64/65/66/67/68

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (V)	UL	CUL	CCC	PSE	RoHS REACH
XG0	76	73±2	53	200	3	AC 250	•	•	•	•	•
XG18	86	81±2	61	200	3	AC 250	•	•	•	•	•
						DC 60	•	•			•
XG1	102	98±2	79	200	3	AC 250	•	•	•	•	•
						DC 60	•	•			•
XG2	115	111±2	91	200	3	AC 250	•	•	•	•	•
						DC 60	•	•			•
XG3	125	121±2	100	200	3	AC 250	•	•	•	•	•
						DC 60	•	•			•
XG4	130	125±2	106	200	3	AC 250	•	•	•	•	•
XG8	133	130±2	111	200	3	AC 250	•	•	•	•	•
XG5	135	130±2	111	200	3	AC 250	•	•	•	•	•
XG9	136	131±2	112	200	3	AC 250	•	•	•	•	•
XG6	145	140±2	121	200	3	AC 250	•	•	•	•	•
XG7	150	145±2	126	200	3	AC 250	•	•	•	•	•
XG16	160	154±2	135	200	3	AC 250			•	•	•
XG32	205	199±3	169	250	3	AC 250	•	•	•	•	•
XG31	221	218±2	188	250	3	AC 250	•	•	•	•	•



Dimensions (mm)

L	L ₁	L ₂	W	T	d	d ₁	F
5.8±0.5	70±2	5.0±1.0	5.8±0.5	2.3±0.2	Φ0.8±0.1	Φ0.54±0.05	3.7±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- Rated Voltage 300 Vac
- Lead Wires Insulated
- RoHS & REACH Compliant

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r			
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	UL	CUL	
KM4	130	125±2	106	200	2	300	•	•	•
KM5	135	130±2	111	200	2	300	•	•	•
KM7	150	145±2	126	200	2	300	•	•	•

Applications

- Motors
- Batteries
- Transformers
- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances

Customization

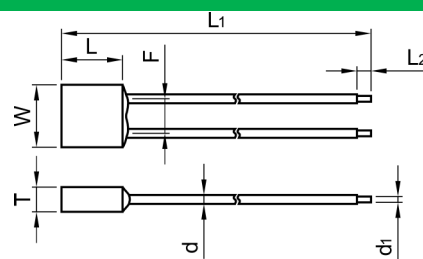
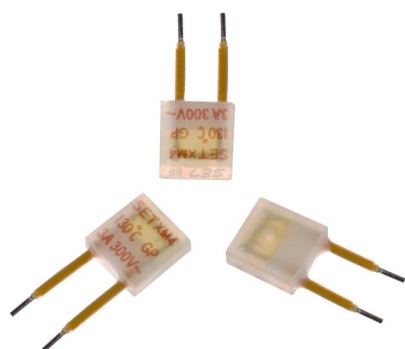
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Tinned Copper Wires or CP Wires

Packaging Information

- Q'TY:
50 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- UL / CUL: E214712



Dimensions (mm)

L	L ₁	L ₂	W	T	d	d ₁	F
5.8±0.5	70±2	5.0±1.0	5.8±0.5	2.3±0.2	Φ0.8±0.1	Φ0.54±0.05	3.7±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- Rated Voltage 300 Vac
- Lead Wires Insulated
- RoHS & REACH Compliant

Applications

- Motors
- Batteries
- Transformers
- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Tinned Copper Wires or CP Wires

Packaging Information

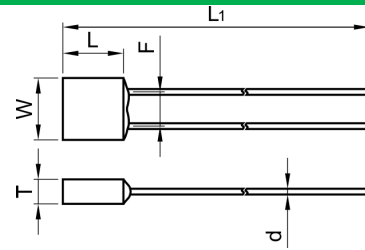
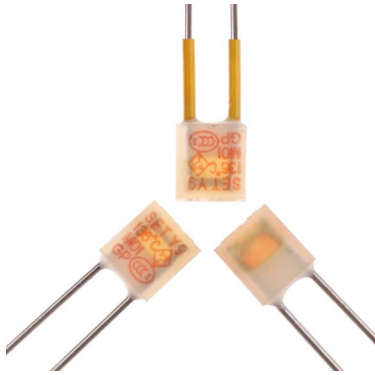
- Q'TY:
50 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- UL / CUL: E214712

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r			
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	UL	CUL	
XM4	130	125±2	106	200	3	300	•	•	•
XM5	135	130±2	111	200	3	300	•	•	•
XM7	150	145±2	126	200	3	300	•	•	•



Dimensions (mm)

L	L ₁	W	T	d	F
7.0±0.5	50±2	6.6±0.5	2.7±0.3	Φ0.80±0.05	4.0±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Functioning Temp.
- RoHS & REACH Compliant

Applications

- Switched-mode Power Supply
- Power Strips
- Lamps
- Home Electrical Appliances
- Batteries

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires can be Insulated
- Tinned Copper Wires or CP Wires

Packaging Information

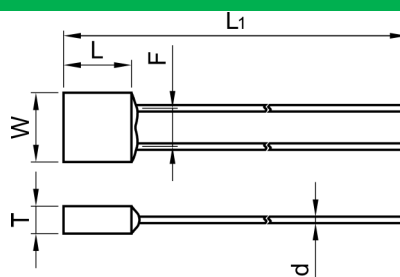
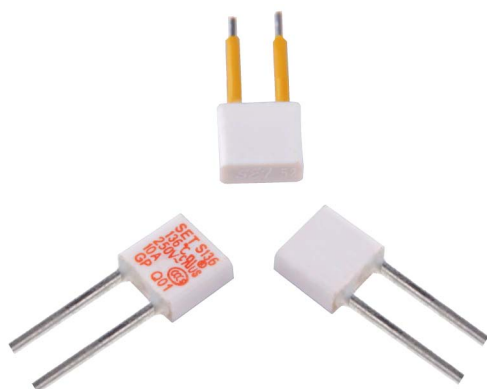
- Q'TY:
30 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2009010205346082
- UL / CUL: E214712
- VDE: 40017057
- KTL: SU05023-6002A/6003B
- PSE: PSE16021063/64/65/66/67/68

Specifications

Model	T _f	Fusing Temp.	T _h	T _m	I _r	U _r	I _n 8/20 μs (15 Times)	I _{max} 8/20 μs (1 Time)	UL [®]	CUL [®]	PSE [®]	VDE [®]	CCC [®]	KTL	RoHS	REACH
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	(kA)	(kA)	UL	CUL	PSE	VDE	CCC	KTL		
Y0	76	73±2	53	200	5	250	2	4	•	•	•		•		•	
Y18	86	81±2	61	200	5	250	2	4	•	•	•		•		•	
Y1	102	98±2	77	200	5	250	3	6	•	•	•		•	•	•	
Y2	115	111±2	89	200	5	250	3	6	•	•	•	•	•	•	•	
Y3	125	121±2	98	200	5	250	3	6	•	•	•	•	•	•	•	
Y4	130	125±2	103	200	5	250	3	6	•	•	•	•	•	•	•	
Y8	133	130±2	108	200	5	250	3	6	•	•	•	•	•	•	•	
Y9	136	131±2	111	200	5	250	3	6	•	•	•	•	•	•	•	
Y6	145	140±2	118	200	5	250	3	6	•	•	•					•
Y7	150	145±2	123	200	5	250	3	6	•	•	•	•	•	•	•	
Y16	160	154±2	133	200	5	250	3.5	7			•		•		•	



Dimensions (mm)

L	L ₁	W	T	d	F
7.5±0.5	35±2	8.3±0.5	3.4±0.2	Φ1.05±0.05	5.2±0.5

Key Features

- Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- High Surge Capacity
- RoHS & REACH Compliant

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (Vac)	I_n 8/20 μ s (15 Times) (kA)	I_{max} 8/20 μ s (1 Time) (kA)	UL	CUL	VDE	CCC	PSE	RoHS REACH
S102	102	98±2	72	200	10	250	5	10	●	●	●	●	●	●
S115	115	111±2	85	200	10	250	5	10	●	●	●	●	●	●
S136	136	131±2	106	200	10	250	5	10	●	●	●	●	●	●
S150	150	145±2	118	200	10	250	5	10	●	●				●

Applications

- SPD
- Power Strips
- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Batteries

Customization

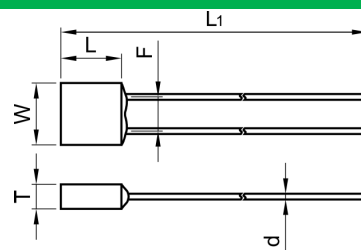
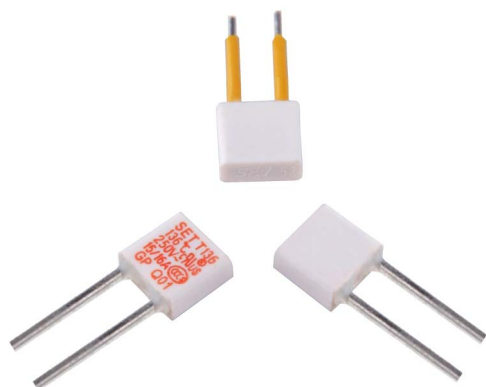
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can be Insulated

Packaging Information

- Q'TY:
20 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2009010205346078
- UL / CUL: E214712
- VDE: 40018082
- PSE: PSE16021061/62



Dimensions (mm)

L	L ₁	W	T	d	F
7.5±0.5	35±2	8.3±0.5	3.4±0.2	Φ1.05±0.05	5.2±0.5

Key Features

- Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- High Surge Capacity
- RoHS & REACH Compliant

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	I_n 8/20 μ s (15 Times)	I_{max} 8/20 μ s (1 Time)	UL	CUL	VDE	CCC	PSE	RoHS	REACH
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	(kA)	(kA)	UL	CUL	VDE	CCC	PSE		
T102	102	98±2	72	200	15 / 16	250	6	12	●	●	●	●	●	●	●
T115	115	111±2	85	200	15 / 16	250	6	12	●	●	●	●	●	●	●
T136	136	131±2	106	200	15 / 16	250	6	12	●	●	●	●	●	●	●
T150	150	145±2	118	200	15 / 16	250	6	12	●	●					●

Applications

- SPD
- Power Strips
- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Batteries

Customization

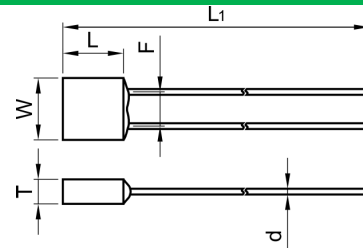
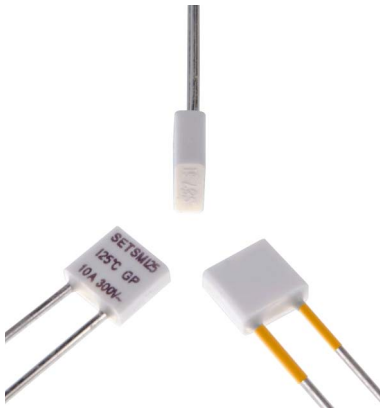
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can be Insulated

Packaging Information

- Q'TY:
20 kPCS/ Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2009010205346078
- UL / CUL: E214712
- VDE: 40018082
- PSE: PSE16021059/60/61/62



Dimensions (mm)

L	L ₁	W	T	d	F
7.5±0.5	35±2	8.3±0.5	3.4±0.2	Φ1.05±0.05	5.2±0.5

Key Features

- Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- Rated Voltage 300 Vac
- High Surge Capacity
- RoHS & REACH Compliant

Applications

- SPD
- Power Strips
- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Batteries

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can be Insulated

Packaging Information

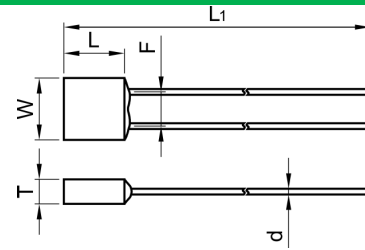
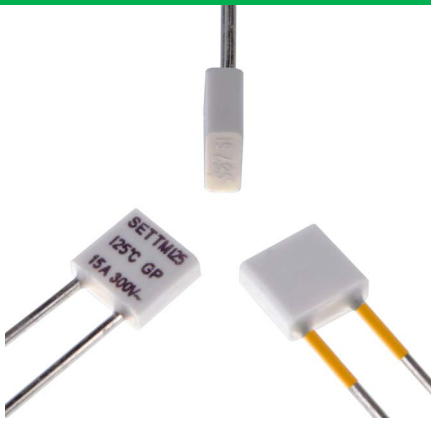
- Q'TY:
20 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- UL / CUL: E214712

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	I_n 8/20 μ s (15 Times)	I_{max} 8/20 μ s (1 Time)	UL	CUL	RoHS REACH
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	(kA)	(kA)			
SM102	102	98±2	72	200	10	300	5	10	●	●	●
SM115	115	111±2	85	200	10	300	5	10	●	●	●
SM136	136	131±2	106	200	10	300	5	10	●	●	●
SM150	150	145±2	118	200	10	300	5	10	●	●	●



Dimensions (mm)

L	L ₁	W	T	d	F
7.5±0.5	35±2	8.3±0.5	3.4±0.2	Φ1.05±0.05	5.2±0.5

Key Features

- Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- Rated Voltage 300 Vac
- High Surge Capacity
- RoHS & REACH Compliant

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	I_n 8/20 μ s (15 Times)	I_{max} 8/20 μ s (1 Time)			 
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	(kA)	(kA)	UL	CUL	
TM102	102	98±2	72	200	15 / 16	300	6	12	●	●	●
TM115	115	111±2	85	200	15 / 16	300	6	12	●	●	●
TM136	136	131±2	106	200	15 / 16	300	6	12	●	●	●
TM150	150	145±2	118	200	15 / 16	300	6	12	●	●	●

Applications

- SPD
- Power Strips
- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Batteries

Customization

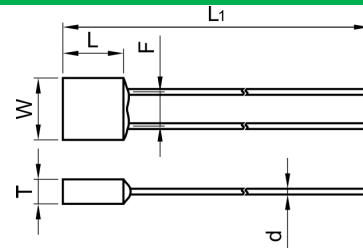
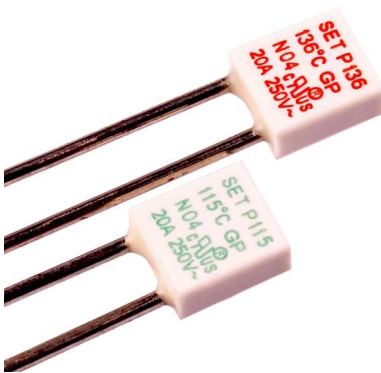
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can be Insulated

Packaging Information

- Q'TY:
20 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- UL / CUL: E214712



Dimensions (mm)

L	L ₁	W	T	d	F
11.5±0.5	50±2	10.8±0.5	4.8±0.2	Φ1.60±0.05	6.6±0.5

Key Features

- Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- High Surge Capacity
- RoHS & REACH Compliant

Applications

- SPD
- Power Strips
- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Batteries

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

Packaging Information

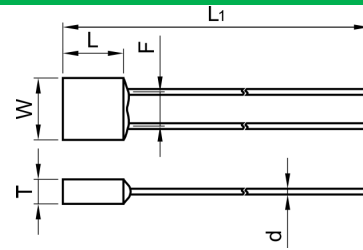
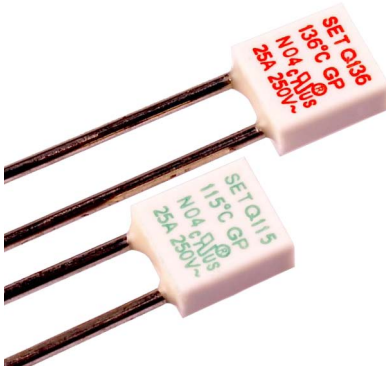
- Q'TY:
9 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2013010205622062
- UL / CUL: E214712
- TUV: R50259029

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (V)	I_n 8/20 μ s (15 Times)	I_{max} 8/20 μ s (1 Time)	UL [®]	CUL [®]	CCC [®]	TUV [®]	RoHS REACH
P102	102	98±2	66	200	20	AC 400	15	25					
						DC 120							
P115	115	111±2	82	200	20	AC 250	15	25	●	●			●
						AC 400							
						DC 120							
P125	125	121±2	90	200	20	AC 400	15	25					
						DC 120							
P136	136	131±2	102	200	20	AC 250	15	25	●	●			●
						AC 400							
						DC 120							



Dimensions (mm)

L	L ₁	W	T	d	F
11.5±0.5	50±2	10.8±0.5	4.8±0.2	Φ1.60±0.05	6.6±0.5

Key Features

- Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- High Surge Capacity
- RoHS & REACH Compliant

Applications

- SPD
- Power Strips
- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Batteries

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required

Packaging Information

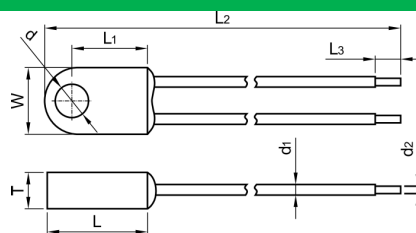
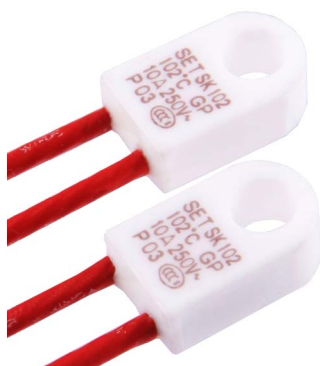
- Q'TY:
9 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2013010205622062
- UL / CUL: E214712
- TUV: R50259029

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (V)	I_n 8/20 μ s (15 Times) (kA)	I_{max} 8/20 μ s (1 Time) (kA)	UL [®]	CUL [®]	CCC [®]	TUV Rheinland	RoHS REACH
Q102	102	98±2	66	200	25	AC 400	20	30					
						DC 120							
Q115	115	111±2	82	200	25	AC 250	20	30	●	●			●
						AC 400							
						DC 120					●	●	●
Q125	125	121±2	90	200	25	AC 400	20	30					●
						DC 120							●
Q136	136	131±2	102	200	25	AC 250	20	30	●	●			●
						AC 400							●
						DC 120					●	●	●



Dimensions (mm)

L	L ₁	L ₂	L ₃	W	T	d	d ₁	d ₂
17±1	12.5±1.0	78±2	5.0±1.0	11±1	6.0±0.5	Φ5.5±1.0	Φ2.1±0.1	Φ1.4±0.1

Key Features

- Ceramic Case
- Make a Mounting Hole
- Lead Wire is Insulated
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	CCC	TÜV Rheinland	RoHS
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	CCC	TUV	REACH
SK102	102	98±2	72	200	10	250	●	●	●
SK115	115	111±2	85	200	10	250	●	●	●
SK125	125	121±2	95	200	10	250	●	●	●
SK130	130	125±2	100	200	10	250	●	●	●
SK135	135	130±2	105	200	10	250	●	●	●
SK145	145	140±2	115	200	10	250	●	●	●
SK150	150	145±2	120	200	10	250	●	●	●
SK160	160	155±2	130	200	10	250	●	●	●
SK205	205	199±3	167	250	10	250	●	●	●
SK221	221	218±2	186	250	10	250	●	●	●

Applications

- Electric Heating Apparatus
- Home Electrical Appliances

Customization

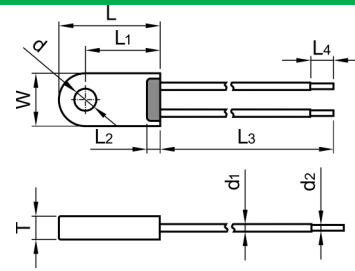
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can Make a Pluggable Terminals

Packaging Information

- Q'TY:
3 kPCS/Cartron
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2012010205547368
- TUV: R50264747



Dimensions (mm)

L	L ₁	L ₂	L ₃	L ₄	W	T	d	d ₁	d ₂
23±1	11±1	3.0±0.5	70±2	5.0±1.0	12±1	5.3±0.5	Φ5.0±1.0	Φ1.7±0.1	Φ1.13±0.10

Key Features

- Ceramic Case
- Make a Mounting Hole
- Lead Wire is Insulated
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	CCC	TÜV Rheinland	RoHS REACH
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	CCC	TUV	
SKL 200	200	196±3	160	380	10	250	•	•	•
SKL 230	230	225±2	190	380	10	250	•	•	•

Applications

- Electric Heating Apparatus
- Home Electrical Appliances

Customization

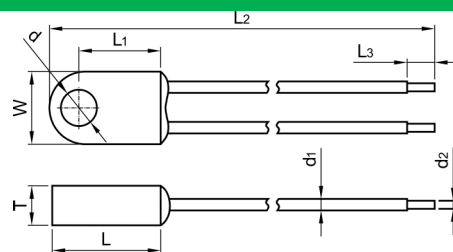
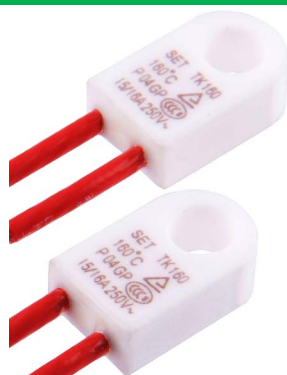
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can Make a Pluggable Terminals

Packaging Information

- Q'TY:
3 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2016010205848229
- TUV: R50337882



Dimensions (mm)

L	L ₁	L ₂	L ₃	W	T	d	d ₁	d ₂
17±1	12.5±1.0	78±2	5.0±1.0	11±1	6.0±0.5	Φ5.5±1.0	Φ2.1±0.1	Φ1.4±0.1

Key Features

- Ceramic Case
- Make a Mounting Hole
- Lead Wire is Insulated
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Applications

- Electric Heating Apparatus
- Home Electrical Appliances

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can Make a Pluggable Terminals

Packaging Information

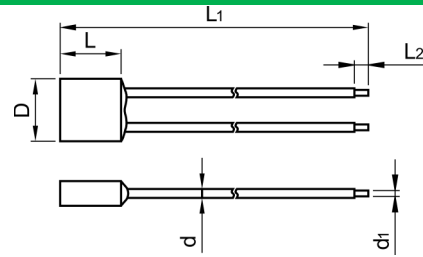
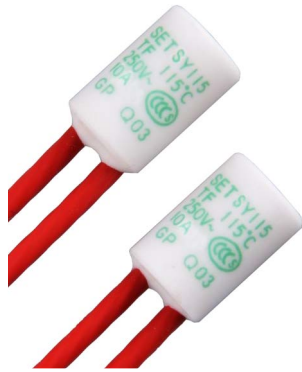
- Q'TY:
3 kPCS/Cartron
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2012010205547368
- TUV: R50264747

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	CCC	TUV	RoHS
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	CCC	TUV	REACH
TK102	102	98±2	72	200	15/16	250	●	●	●
TK115	115	111±2	85	200	15/16	250	●	●	●
TK125	125	121±2	95	200	15/16	250	●	●	●
TK130	130	125±2	100	200	15/16	250	●	●	●
TK135	135	130±2	105	200	15/16	250	●	●	●
TK145	145	140±2	115	200	15/16	250	●	●	●
TK150	150	145±2	120	200	15/16	250	●	●	●
TK160	160	155±2	130	200	15/16	250	●	●	●
TK205	205	199±3	167	250	15/16	250	●	●	●
TK221	221	218±2	186	250	15/16	250	●	●	●



Dimensions (mm)

L	L ₁	L ₂	D	d	d ₁
13±1	70±3	5.0±1.0	Φ10±1	Φ3.0±0.1	Φ1.4±0.1

Key Features

- Ceramic Case
- Lead Wire is Insulated
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Applications

- Electric Heating Apparatus
- Home Electrical Appliances

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can Make a Pluggable Terminals

Packaging Information

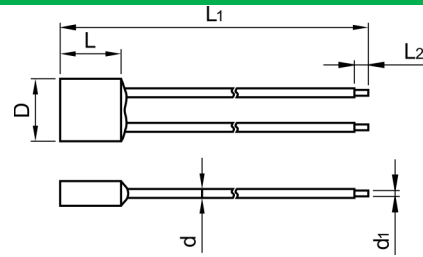
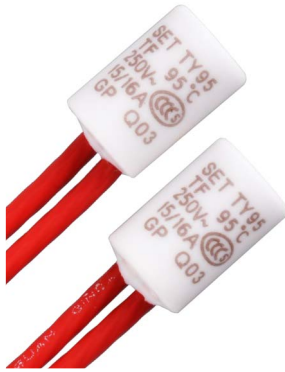
- Q'TY:
3 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2012010205547370

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r		
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	CCC	REACH
SY95	95	91±2	60	180	10	250	●	●
SY105	105	100±2	72	180	10	250	●	●
SY115	115	111±2	85	180	10	250	●	●
SY120	120	115±2	90	180	10	250	●	●
SY125	125	121±2	95	180	10	250	●	●
SY130	130	125±2	100	180	10	250	●	●
SY145	145	140±2	115	180	10	250	●	●



Dimensions (mm)

L	L ₁	L ₂	D	d	d ₁
13±1	70±3	5.0±1.0	Φ10±1	Φ3.0±0.1	Φ1.4±0.1

Key Features

- Ceramic Case
- Lead Wire is Insulated
- Non-resettable
- Alloy Type Thermal-link
- RoHS & REACH Compliant

Applications

- Electric Heating Apparatus
- Home Electrical Appliances

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can Make a Pluggable Terminals

Packaging Information

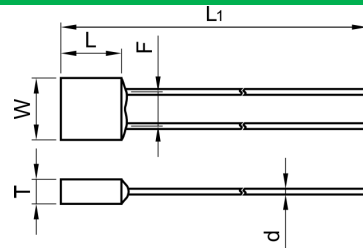
- Q'TY:
3 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2012010205547370

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r		
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	CCC	REACH
TY95	95	91±2	60	180	15 / 16	250	●	●
TY105	105	100±2	72	180	15 / 16	250	●	●
TY115	115	111±2	85	180	15 / 16	250	●	●
TY120	120	115±2	90	180	15 / 16	250	●	●
TY125	125	121±2	95	180	15 / 16	250	●	●
TY130	130	125±2	100	180	15 / 16	250	●	●
TY145	145	140±2	115	180	15 / 16	250	●	●



Dimensions (mm)

L	L ₁	W	T	d	F
7.5±0.5	50±2	8.6±0.5	3.6±0.2	Φ1.05±0.05	5.2±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	
	(°C)	(°C)	(°C)	(°C)	(A)	(Vdc)	
SD102	102	98±2	72	160	10	125	●
SD115	115	111±2	85	160	10	125	●
SD125	125	121±2	95	160	10	125	●
SD130	130	125±2	100	160	10	125	●
SD136	136	131±2	106	160	10	125	●
SD150	150	145±2	120	160	10	125	●

Applications

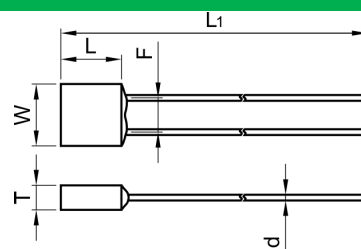
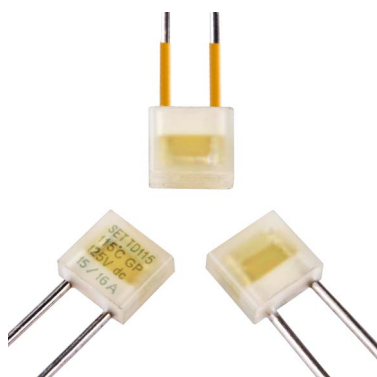
- SPD
- Switched-mode Power Supply
- Batteries

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

Packaging Information

- Q'TY:
20 kPCS/ Carton
- Carton Size:
440 × 300 × 260 (mm)



Dimensions (mm)

L	L ₁	W	T	d	F
7.5±0.5	50±2	8.6±0.5	3.6±0.2	Φ1.05±0.05	5.2±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Applications

- SPD
- Switched-mode Power Supply
- Batteries

Customization

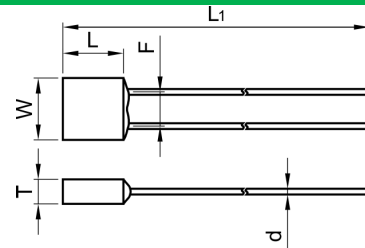
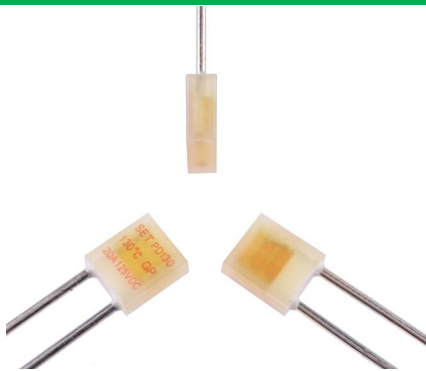
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.
- Lead Wires Can be Insulated

Packaging Information

- Q'TY:
20 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	
	(°C)	(°C)	(°C)	(°C)	(A)	(Vdc)	
TD102	102	98±2	72	160	15 / 16	125	●
TD115	115	111±2	85	160	15 / 16	125	●
TD125	125	121±2	95	160	15 / 16	125	●
TD130	130	125±2	100	160	15 / 16	125	●
TD136	136	131±2	105	160	15 / 16	125	●
TD150	150	145±2	120	160	15 / 16	125	●



Dimensions (mm)

L	L ₁	W	T	d	F
11.8±0.5	50±2	10.7±0.5	4.8±0.2	Φ1.60±0.05	6.6±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Applications

- SPD
- Switched-mode Power Supply
- Batteries

Customization

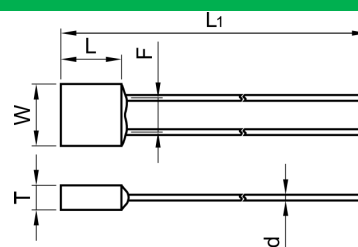
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

Packaging Information

- Q'TY:
9 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	
	(°C)	(°C)	(°C)	(°C)	(A)	(Vdc)	
PD102	102	98±2	66	160	20	125	●
PD115	115	111±2	82	160	20	125	●
PD125	125	121±2	90	160	20	125	●
PD130	130	125±2	97	160	20	125	●
PD136	136	131±2	102	160	20	125	●
PD150	150	145±2	117	160	20	125	●



Dimensions (mm)

L	L ₁	W	T	d	F
11.8±0.5	50±2	10.7±0.5	4.8±0.2	Φ1.60±0.05	6.6±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- RoHS & REACH Compliant

Applications

- SPD
- Switched-mode Power Supply
- Batteries

Customization

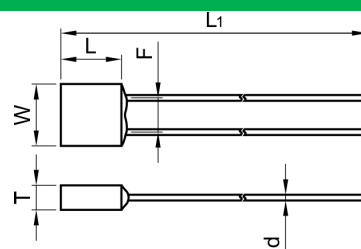
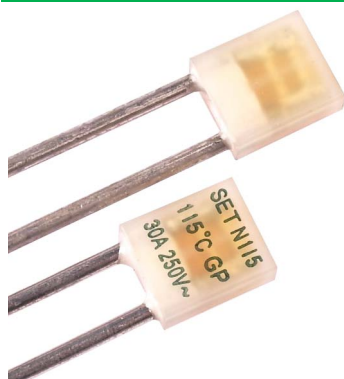
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

Packaging Information

- Q'TY:
9 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	
	(°C)	(°C)	(°C)	(°C)	(A)	(Vdc)	
QD102	102	98±2	66	160	25	125	●
QD115	115	111±2	82	160	25	125	●
QD125	125	121±2	90	160	25	125	●
QD130	130	125±2	97	160	25	125	●
QD136	136	131±2	102	160	25	125	●
QD150	150	145±2	117	160	25	125	●



Dimensions (mm)

L	L ₁	W	T	d	F
13±1	50±2	11.5±1.0	4.9±0.8	Φ2.0±0.5	6.6±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- High Surge Capacity
- RoHS & REACH Compliant

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (Vac)	I_n 8/20 μ s (15 Times) (kA)	I_{max} 8/20 μ s (1 Time) (kA)	RoHS REACH
N102	102	99±2	65	160	30	250	20	40	●
N115	115	112±2	78	160	30	250	20	40	●
N125	125	122±2	90	160	30	250	20	40	●
N130	130	126±2	96	160	30	250	20	40	●
N136	136	132±2	102	160	30	250	20	40	●
N150	150	146±2	116	160	30	250	20	40	●

Applications

- SPD
- Power Strips
- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Batteries

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

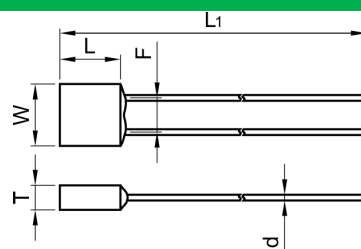
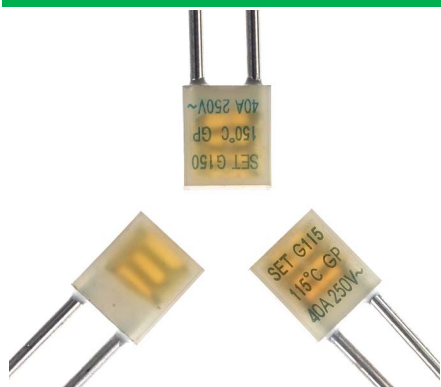
Packaging Information

Q'TY:

6.3 kPCS/Carton

Carton Size:

440 × 300 × 260 (mm)



Dimensions (mm)

L	L ₁	W	T	d	F
15.5±1.0	50±2	13.8±1.0	5.7±0.8	Φ2.2±0.05	9.0±0.5

Key Features

- Transparent Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- High Surge Capacity
- RoHS & REACH Compliant

Applications

- SPD
- Power Strips
- Lamps
- Switched-mode Power Supply
- Home Electrical Appliances
- Batteries

Customization

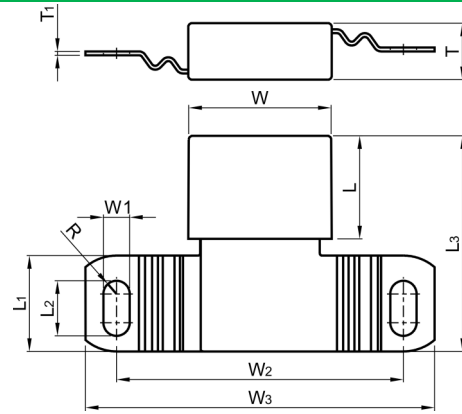
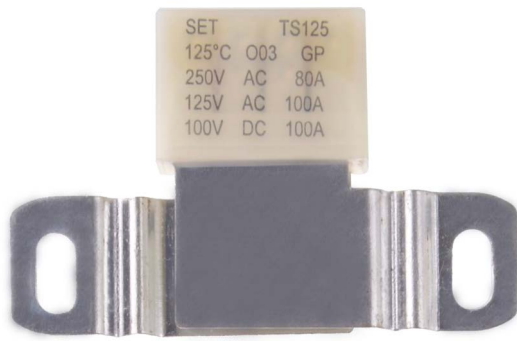
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

Packaging Information

- Q'TY:
6.3 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	I_n 8/20 μ s (15 Times)	I_{max} 8/20 μ s (1 Time)	
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	(kA)	(kA)	
G102	102	99±2	61	160	40	250	30	60	●
G115	115	112±2	74	160	40	250	30	60	●
G125	125	122±2	84	160	40	250	30	60	●
G130	130	126±2	88	160	40	250	30	60	●
G136	136	132±2	94	160	40	250	30	60	●
G150	150	146±2	108	160	40	250	30	60	●



Dimensions (mm)

L	L ₁	L ₂	L ₃	W	W ₁	W ₂	W ₃	T	T ₁
21.5±0.5	20.0±0.5	11.5±0.5	45.5±2.0	30.0±0.5	5.5±0.2	60±2	73±2	11.8±0.5	0.80±0.05

Key Features

- Rated Current 100 A
- Non-resettable
- High Accuracy of Function Temp.
- High Surge Capacity
- Pins with Mounting Holes
- RoHS & REACH Compliant

Applications

- Batteries
- Automobile Electronic

Customization

- Other Temp. Can be Customized
- The Shape of Connecting Leads Can be customized as Required.

Packaging Information

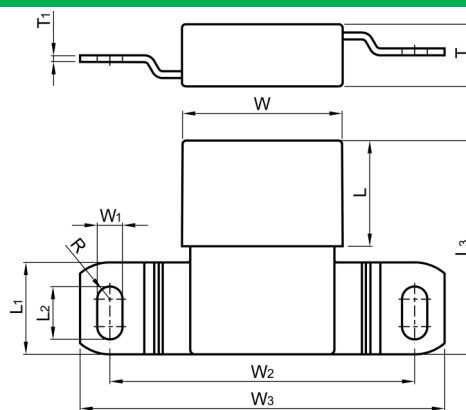
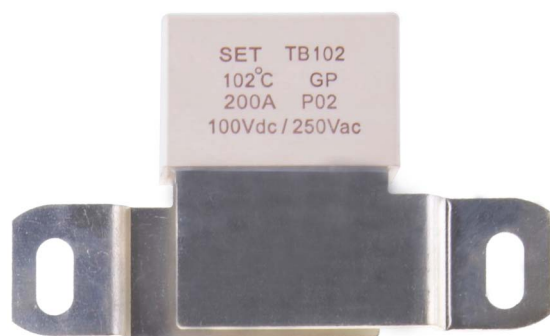
- Q'TY:
1.5 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- UL / CUL: E214712

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	I_n 8/20 μ s (15 Times)	I_{max} 8/20 μ s (1 Time)	UL	CUL	RoHS REACH
	(°C)	(°C)	(°C)	(°C)	(A)	(V)	(kA)	(kA)			
TS102	102	99±2	61	180	80	AC 250	50	100			•
					100	AC 125	50	100			•
					100	DC 100	50	100			•
TS115	115	112±2	74	180	80	AC 250	50	100			•
					100	AC 125	50	100			•
					100	DC 100	50	100			•
TS123	123	118±2	82	180	80	AC 250	50	100			•
					100	AC 125	50	100			•
					100	DC 100	50	100			•
TS125	125	122±2	84	180	80	AC 250	50	100	•	•	•
					100	AC 125	50	100	•	•	•
					100	DC 100	50	100	•	•	•
TS130	130	126±2	88	180	80	AC 250	50	100			•
					100	AC 125	50	100			•
					100	DC 100	50	100			•
TS136	136	132±2	94	180	80	AC 250	50	100	•	•	•
					100	AC 125	50	100	•	•	•
					100	DC 100	50	100	•	•	•
TS150	150	146±2	108	180	80	AC 250	50	100			•
					100	AC 125	50	100			•
					100	DC 100	50	100			•



Dimensions (mm)

L	L ₁	L ₂	L ₃	W	W ₁	W ₂	W ₃	T	T ₁
23.0±0.5	20.0±0.5	11.5±0.5	46.5±2.0	35.0±0.5	5.5±0.2	66.5±2.0	79±2	13.5±0.5	1.50±0.05

Key Features

- Rated Current 200 A
- Non-resettable
- High Accuracy of Function Temp.
- High Surge Capacity
- Pins with Mounting Holes

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (V)	I_n 8/20 μ s (15 Times) (kA)	I_{max} 8/20 μ s (1 Time) (kA)	ROHS REACH
TB102	102	99±2	61	180	200	AC 250	100	200	●
					200	DC 100	100	200	●
TB115	115	112±2	74	180	200	AC 250	100	200	●
					200	DC 100	100	200	●
TB123	123	118±2	82	180	200	AC 250	100	200	●
					200	DC 100	100	200	●
TB125	125	122±2	84	180	200	AC 250	100	200	●
					200	DC 100	100	200	●
TB130	130	126±2	88	180	200	AC 250	100	200	●
					200	DC 100	100	200	●
TB136	136	132±2	94	180	200	AC 250	100	200	●
					200	DC 100	100	200	●
TB150	150	146±2	108	180	200	AC 250	100	200	●
					200	DC 100	100	200	●

Applications

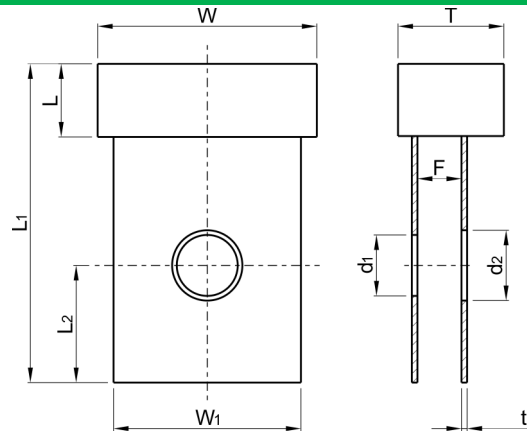
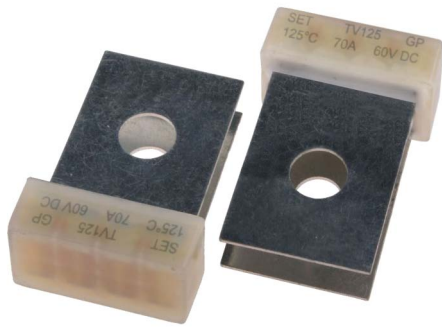
- Batteries
- Automobile Electronic

Customization

- Other Temp. Can be Customized
- The Shape of Connecting Leads Can be customized as Required.

Packaging Information

- Q'TY:
1.5 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)



Dimensions (mm)

L	L ₁	L ₂	W	W ₁	T	t	d ₁	d ₂	F
7.8±0.5	34.0±0.5	12.5±0.2	23.4±0.5	20.0±0.5	11.3±0.2	0.60±0.05	Φ6.5±0.1	Φ7.5±0.1	4.7±0.5

Key Features

- Rated Current 70A
- Non-resettable
- High Accuracy of Function Temp.
- Pins with Mounting Holes

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	
	(°C)	(°C)	(°C)	(°C)	(A)	(Vdc)	
TV125	125	122±2	84	180	70	60	●
TV136	136	132±2	94	180	70	60	●

Applications

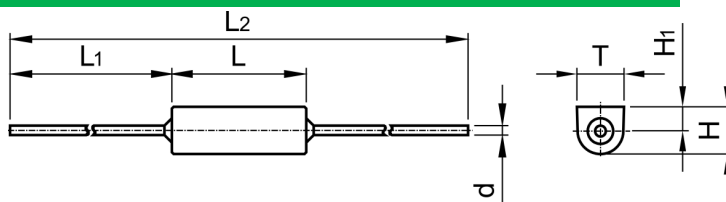
- Batteries
- Automobile Electronic

Customization

- Other Temp. Can be Customized
- The Shape of Connecting Leads Can be Customized as Required.

Packaging Information

- Q'TY:
3 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)



Dimensions (mm)

L	L ₁	L ₂	H	H ₁	T	d
17.0±0.5	35±2	87±3	4.2±0.5	2.3±0.2	3.8±0.5	Φ1.05±0.05

Key Features

- Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- High Operating Voltage
- RoHS & REACH Compliant

Applications

- Capacitors
- Batteries

Customization

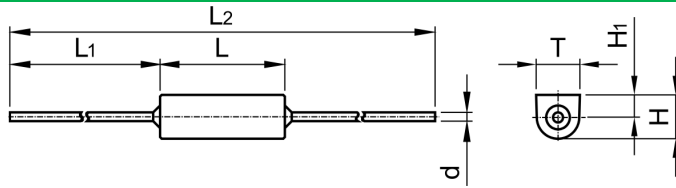
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

Packaging Information

- Q'TY:
15 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	I_n 8/20 μs (15 Times)	I_{max} 8/20 μs (1 Time)	
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	(kA)	(kA)	
HC0	76	73±2	43	200	5	690	2	4	●
HC18	86	81±2	51	200	5	690	2	4	●
HC1	102	98±2	72	200	5	690	3	6	●
HC2	115	111±2	85	200	5	690	3	6	●
HC3	125	121±2	95	200	5	690	3	6	●
HC4	130	125±2	100	200	5	690	3	6	●
HC5	135	130±2	105	200	5	690	3	6	●
HC6	145	140±2	115	200	5	690	3	6	●
HC9	136	131±2	106	200	5	690	3	6	●
HC7	150	145±2	120	200	5	690	3	6	●



Dimensions (mm)

L	L ₁	L ₂	H	H ₁	T	d
17.0±0.5	35±2	87±3	4.2±0.5	2.3±0.2	3.8±0.5	Φ1.05±0.05

Key Features

- Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- High Operating Voltage
- RoHS & REACH Compliant

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	I_n 8/20 μs (15 Times)	I_{max} 8/20 μs (1 Time)	
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	(kA)	(kA)	
HU0	76	73±2	43	200	10	500	3	6	●
HU18	86	81±2	51	200	10	500	3	6	●
HU1	102	98±2	72	200	10	500	4	8	●
HU2	115	111±2	85	200	10	500	4	8	●
HU3	125	121±2	95	200	10	500	4	8	●
HU4	130	125±2	100	200	10	500	4	8	●
HU5	135	130±2	105	200	10	500	4	8	●
HU6	145	140±2	115	200	10	500	4	8	●
HU7	150	145±2	120	200	10	500	4	8	●

Applications

- Capacitors
- Batteries

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

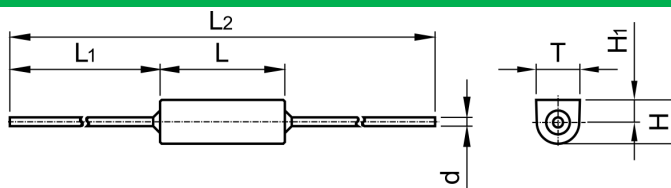
Packaging Information

QTY:

15 kPCS/Carton

Carton Size:

440 × 300 × 260 (mm)



Dimensions (mm)

L	L ₁	L ₂	H	H ₁	T	d
17.0±0.5	35±2	87±2	4.2±0.5	2.3±0.2	3.8±0.5	Φ1.2±0.05

Key Features

- Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- High Operating Voltage
- RoHS & REACH Compliant

Applications

- Capacitors
- Batteries

Customization

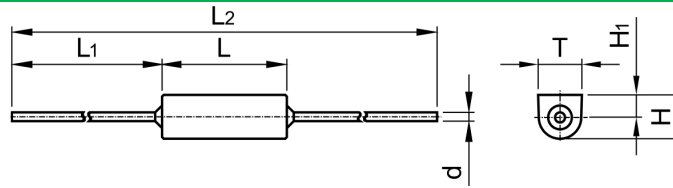
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

Packaging Information

- Q'TY:
15 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	I_n 8/20 μ s (15 Times)	I_{max} 8/20 μ s (1 Time)	
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	(kA)	(kA)	
HR0	76	73±2	43	200	15	500	5	10	●
HR18	86	81±2	51	200	15	500	5	10	●
HR1	102	98±2	72	200	15	500	6	12	●
HR2	115	111±2	85	200	15	500	6	12	●
HR3	125	121±2	95	200	15	500	6	12	●
HR4	130	125±2	100	200	15	500	6	12	●
HR5	135	130±2	105	200	15	500	6	12	●
HR6	145	140±2	115	200	15	500	6	12	●
HR7	150	145±2	120	200	15	500	6	12	●



Dimensions (mm)

L	L ₁	L ₂	H	H ₁	T	d
15.0±0.5	35±2	85±3	5.3±0.5	2.7±0.2	5.3±0.5	Φ1.05±0.05

Key Features

- Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- High Operating Voltage
- RoHS & REACH Compliant

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (Vac)	I_n 8/20 μ s (15 Times) (kA)	I_{max} 8/20 μ s (1 Time) (kA)	
HL0	76	73±2	43	200	10	800	3	6	●
HL18	86	81±2	51	200	10	800	3	6	●
HL1	102	98±2	72	200	10	800	4	8	●
HL2	115	111±2	85	200	10	800	4	8	●
HL3	125	121±2	95	200	10	800	4	8	●
HL4	130	125±2	100	200	10	800	4	8	●
HL5	135	130±2	105	200	10	800	4	8	●
HL6	145	140±2	115	200	10	800	4	8	●
HL7	150	145±2	120	200	10	800	4	8	●

Applications

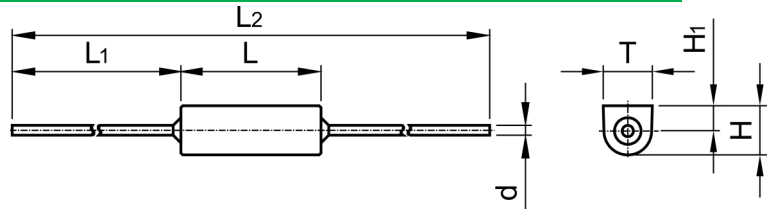
- Capacitors
- Batteries

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

Packaging Information

- Q'TY:
15 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)



Dimensions (mm)

L	L ₁	L ₂	H	H ₁	T	d
15.0±0.5	35±2	85±3	5.3±0.5	2.7±0.2	5.3±0.5	Φ1.2±0.05

Key Features

- Plastic Case
- Non-resettable
- High Accuracy of Function Temp.
- High Operating Voltage
- RoHS & REACH Compliant

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	I_n 8/20 μs (15 Times)	I_{max} 8/20 μs (1 Time)	
	(°C)	(°C)	(°C)	(°C)	(A)	(Vac)	(kA)	(kA)	
HW0	76	73±2	43	200	15	800	5	10	●
HW18	86	81±2	51	200	15	800	5	10	●
HW1	102	98±2	72	200	15	800	6	12	●
HW2	115	111±2	85	200	15	800	6	12	●
HW3	125	121±2	95	200	15	800	6	12	●
HW4	130	125±2	100	200	15	800	6	12	●
HW5	135	130±2	105	200	15	800	6	12	●
HW6	145	140±2	115	200	15	800	6	12	●
HW7	150	145±2	120	200	15	800	6	12	●

Applications

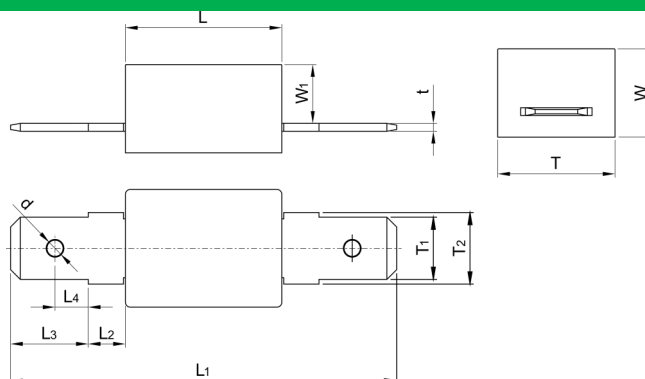
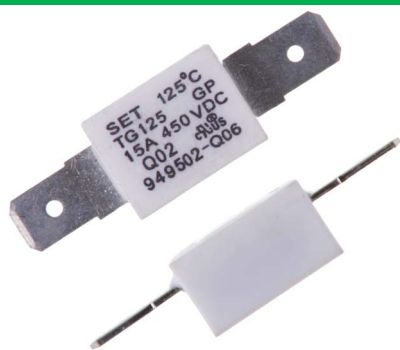
- Capacitors
- Batteries

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

Packaging Information

- Q'TY:
15 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)



Dimensions (mm)

L	L ₁	L ₂	L ₃	L ₄	W	W ₁	T	T ₁	T ₂	t	d
16±1	39.5±2.0	3.8±0.5	7.95±0.30	3.4±0.2	9.0±0.8	6.0±0.8	12±1	6.35±0.20	7.3±0.2	0.80±0.05	Φ1.75±0.20

Key Features

- Ceramic Case
- Non-resettable
- High Accuracy of Function Temp.
- High Operating Voltage
- RoHS & REACH Compliant

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r			
	(°C)	(°C)	(°C)	(°C)	(A)	(V)	UL	CUL	
TG86	86	81±2	51	250	15	DC 450			•
TG102	102	99±2	64	250	15	DC 450			•
TG115	115	111±2	80	250	15	DC 450			•
TG125	125	122±2	90	250	15	DC 450	•	•	•
TG125B	125	122±2	90	250	20	AC 690	•	•	•
						DC 400	•	•	•
TG130	130	126±2	95	250	15	DC 450			•
TG136	136	132±2	102	250	15	DC 450			•
TG150	150	146±2	117	250	15	DC 450			•

Applications

- Batteries
- Automobile Electronic

Customization

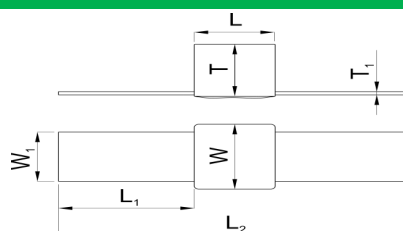
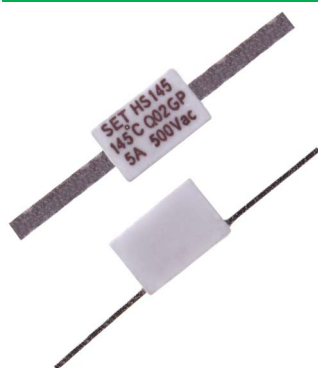
- Other Temp. Can be Customized
- The Shape of Connecting Leads Can be customized as Required.

Packaging Information

- Q'TY:
15 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- UL / CUL: E214712



Dimensions (mm)

L	L ₁	L ₂	W	W ₁	T	T ₁
9.6±1.0	30±2	70±3	6.0±1.0	2.0±0.5	6.0±1.0	0.50±0.05

Key Features

- Ceramic Case
- Flat Leads
- Non-resettable
- High Accuracy of Function Temp.
- High Operating Voltage
- RoHS & REACH Compliant

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (V)	 UL	 CUL	 CCC	 TUV	 REACH
HS125	125	121±2	98	250	5	AC 500	•	•	•	•	•
						DC 200	•	•	•	•	•
HS136	136	131±2	111	250	5	AC 500	•	•	•	•	•
						DC 200	•	•	•	•	•
HS145	145	140±2	118	250	5	AC 500	•	•	•	•	•
						DC 200	•	•	•	•	•

Applications

- SPD
- Batteries
- Automobile Electronic

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

Packaging Information

- Q'TY:
3 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

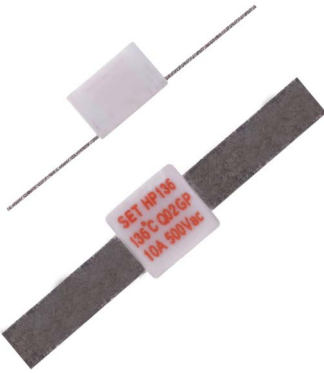
- CCC: 2016010205860214
- UL / CUL: E214712
- TUV: R50338012

Thermal-link

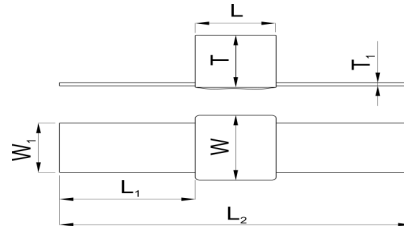
HP Series I_r : 10 A **SETfuse**

Thermal-link

Thermal-link



Dimensions (mm)



L	L ₁	L ₂	W	W ₁	T	T ₁
8.6±1.0	30±2	70±3	7.6±1.0	5.0±1.0	6.0±1.0	0.5±0.1

Key Features

- Ceramic Case
- Flat Leads
- Non-resettable
- High Accuracy of Function Temp.
- High Operating Voltage
- RoHS & REACH Compliant

Specifications

Model	T_f	Fusing Temp.	T_h	T_m	I_r	U_r					
	(°C)	(°C)	(°C)	(°C)	(A)	(V)	UL	CUL	CCC	TUV	REACH
HP125	125	121±2	90	250	10	AC 500	•	•	•	•	•
						DC 200	•	•	•	•	•
HP136	136	131±2	106	250	10	AC 500	•	•	•	•	•
						DC 200	•	•	•	•	•
HP145	145	140±2	112	250	10	AC 500	•	•	•	•	•
						DC 200	•	•	•	•	•

Applications

- SPD
- Batteries
- Automobile Electronic

Customization

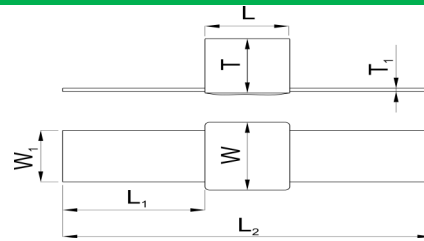
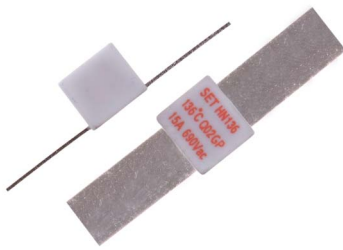
- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

Packaging Information

- Q'TY:
3 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

Agency Information

- CCC: 2016010205860216
- UL / CUL: E214712
- TUV: R50337988



Dimensions (mm)

L	L ₁	L ₂	W	W ₁	T	T ₁
10.0±1.0	30±2	70±3	10.0±1.0	7.6±1.0	7.4±1.0	0.5±0.1

Key Features

- Ceramic Case
- Flat Leads
- Non-resettable
- High Accuracy of Function Temp.
- High Operating Voltage
- RoHS & REACH Compliant

Specifications

Model	T_f (°C)	Fusing Temp. (°C)	T_h (°C)	T_m (°C)	I_r (A)	U_r (V)	 UL	 CUL	 CCC	 TUV	 RoHS	 REACH
HN125	125	121±2	90	250	15	AC 690	•	•	•	•	•	•
						DC 200	•	•	•	•	•	•
HN136	136	131±2	106	250	15	AC 690	•	•	•	•	•	•
						DC 200	•	•	•	•	•	•
HN145	145	140±2	115	250	15	AC 690	•	•	•	•	•	•
						DC 200	•	•	•	•	•	•

Applications

- SPD
- Batteries
- Automobile Electronic

Customization

- Other Temp. Can be Customized
- The Length of Lead Wires Can be Customized as Required.

Packaging Information

- Q'TY:
3 kPCS/Carton
- Carton Size:
440 × 300 × 260 (mm)

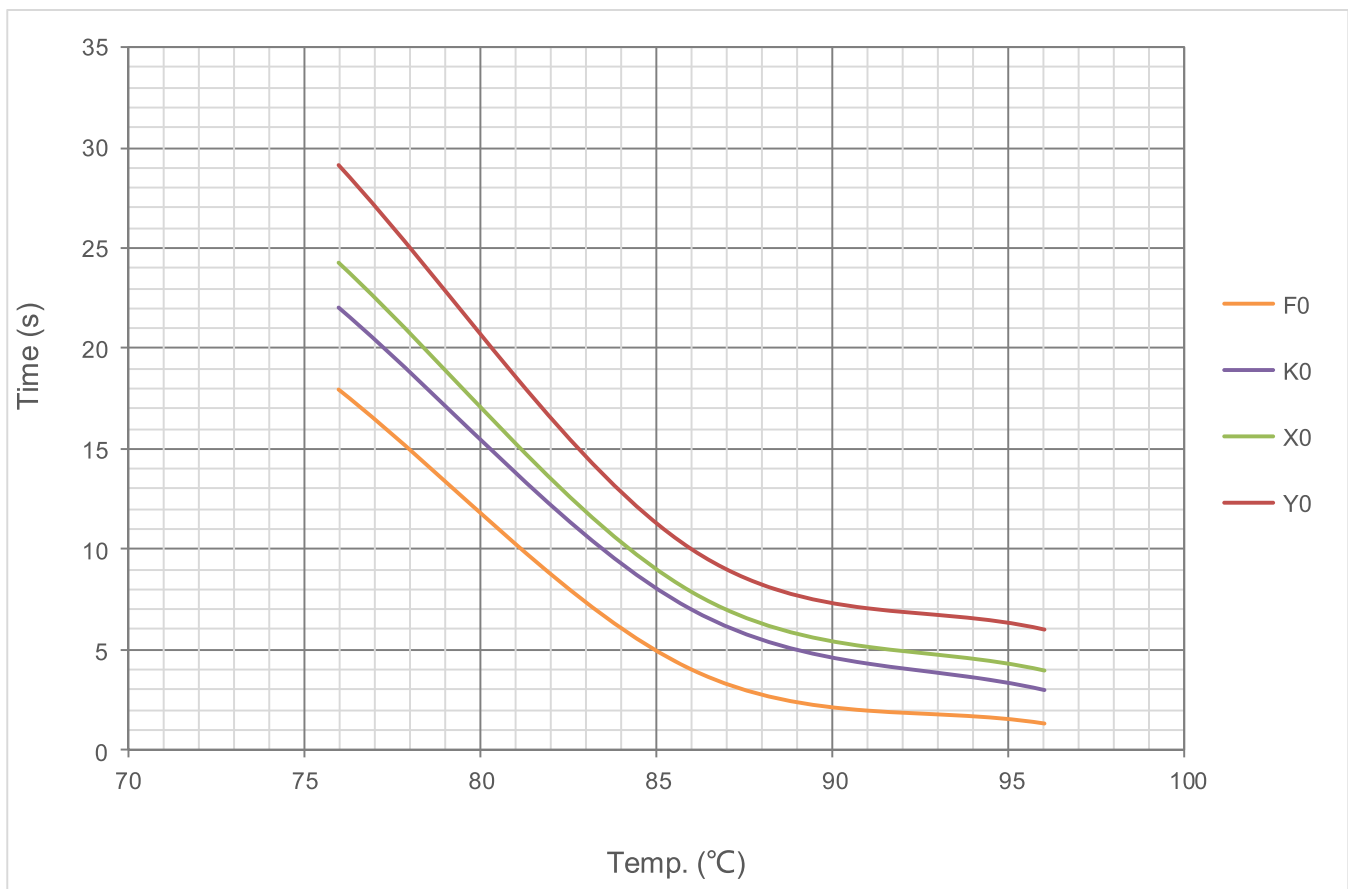
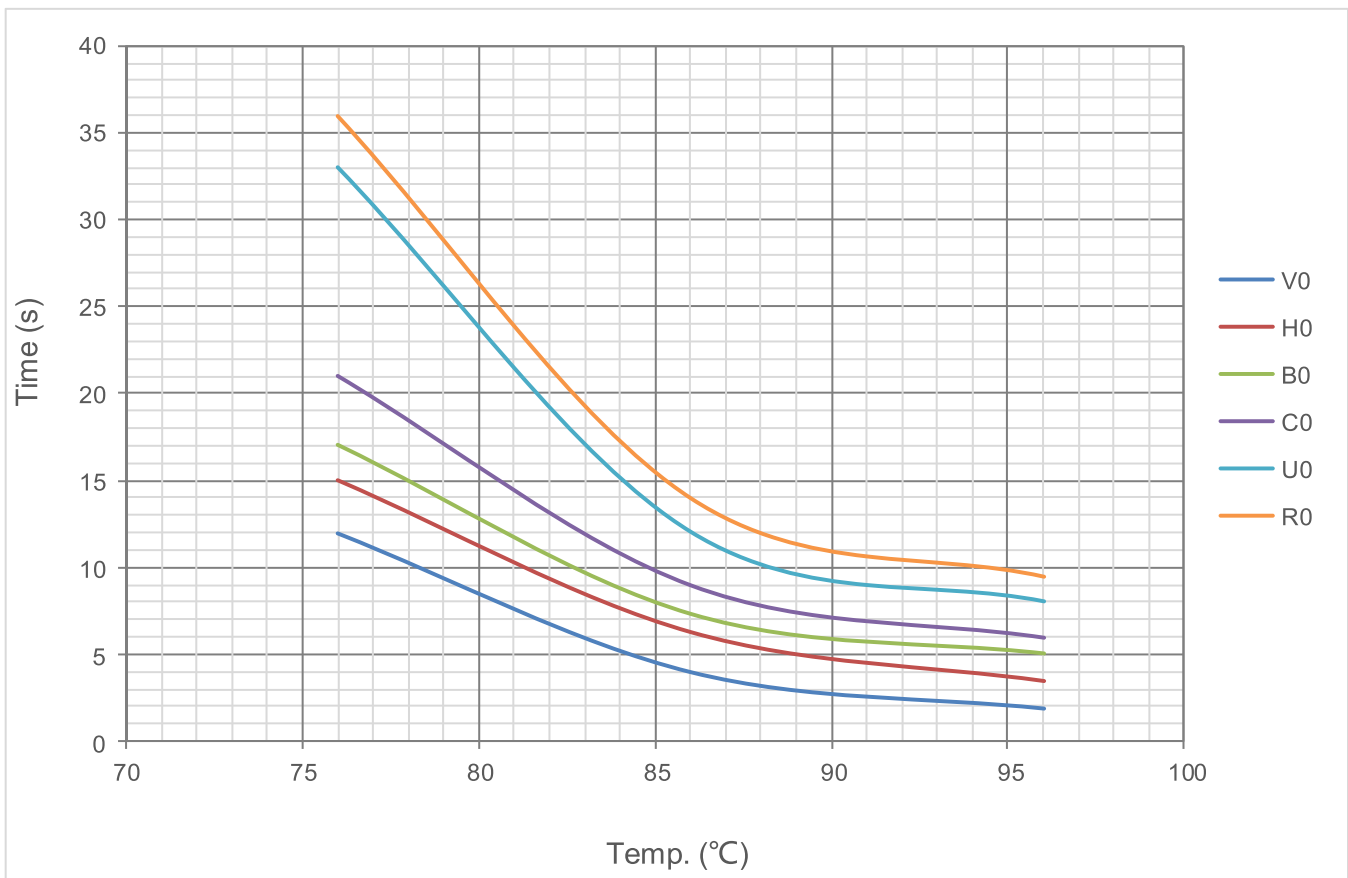
Agency Information

- CCC: 2016010205860222
- UL / CUL: E214712
- TUV: R50336499

Temperature-Time Curve

T_f : 76 °C

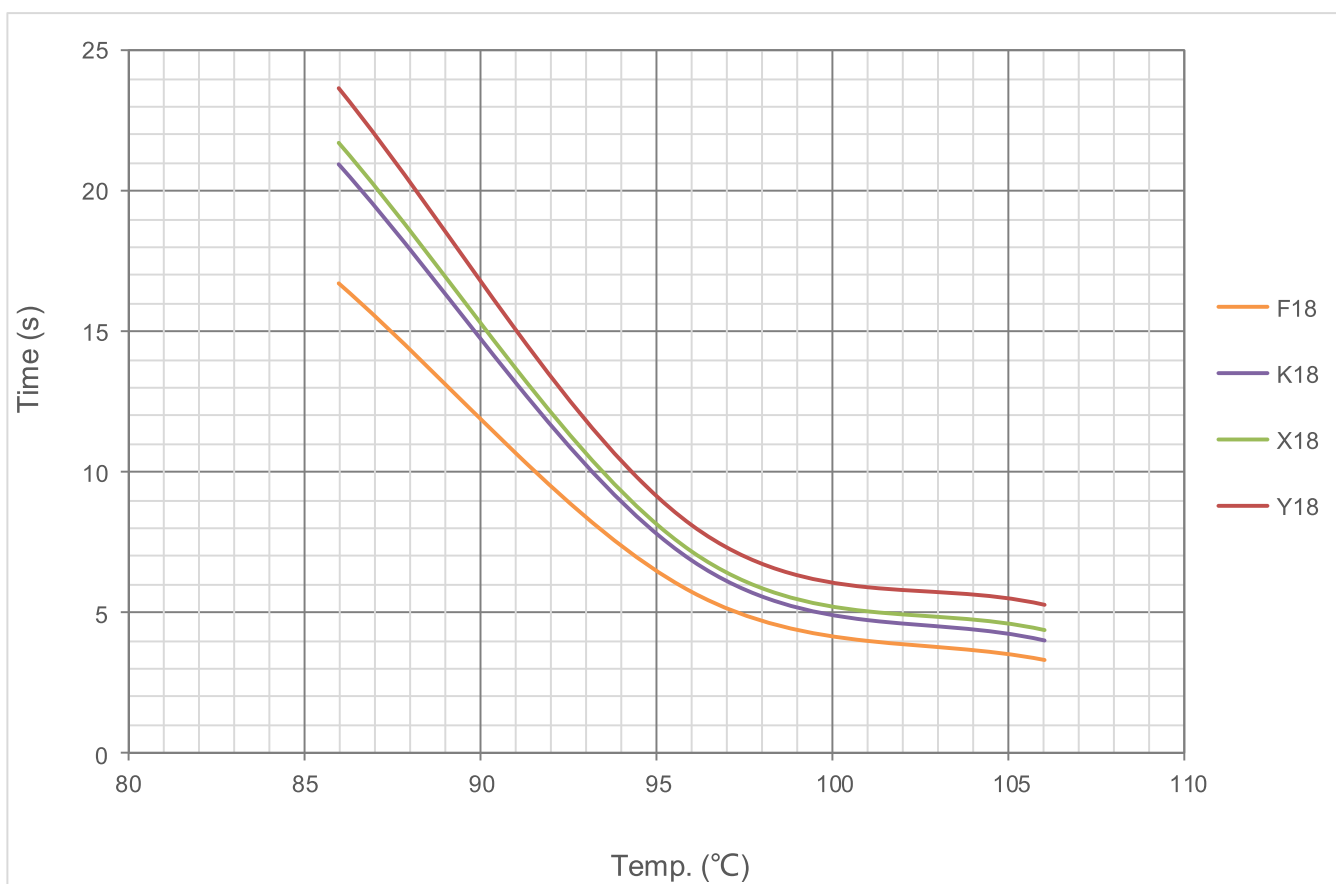
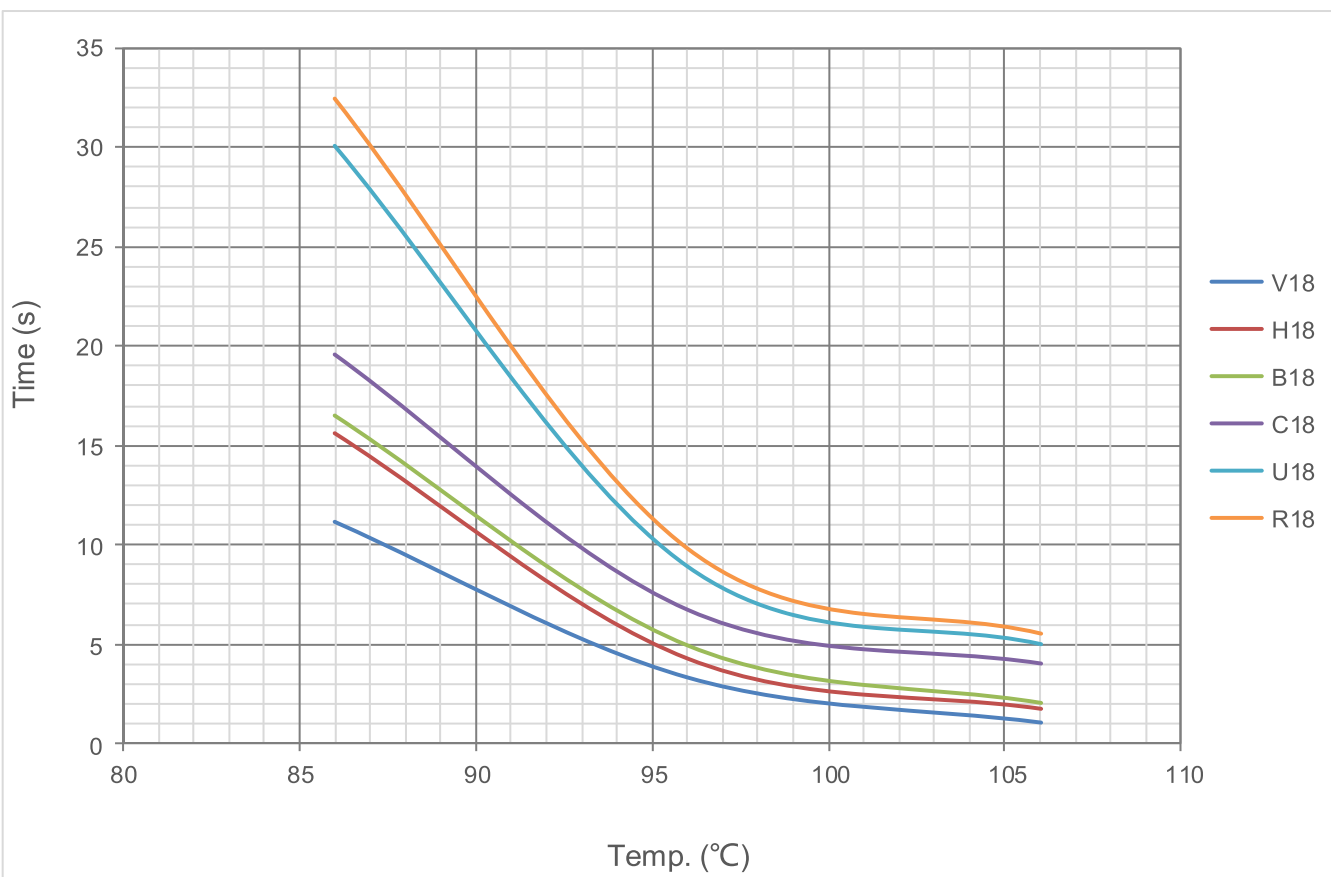
The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)
· (This curve is for reference only)



Temperature-Time Curve

T_f : 86 °C

The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



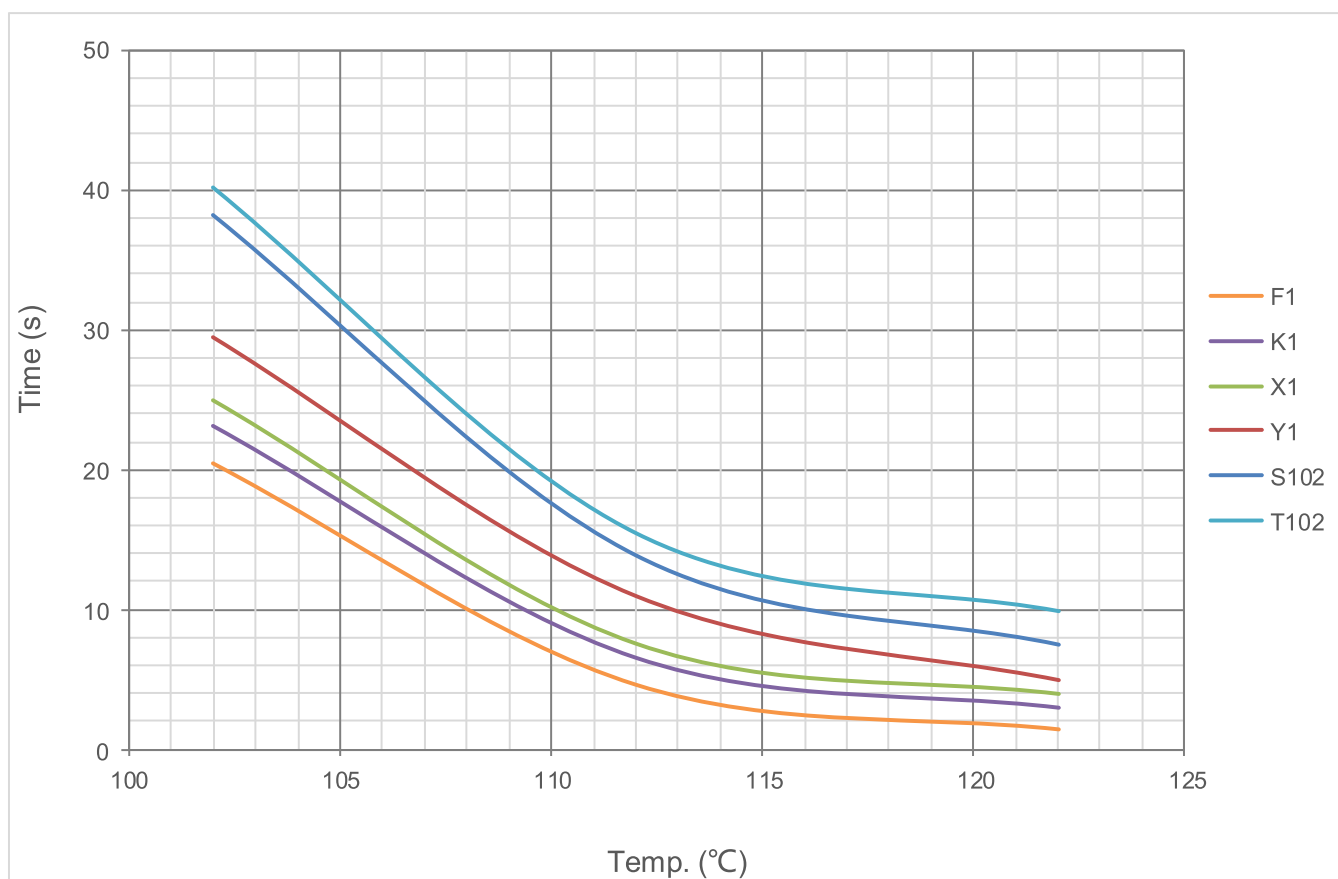
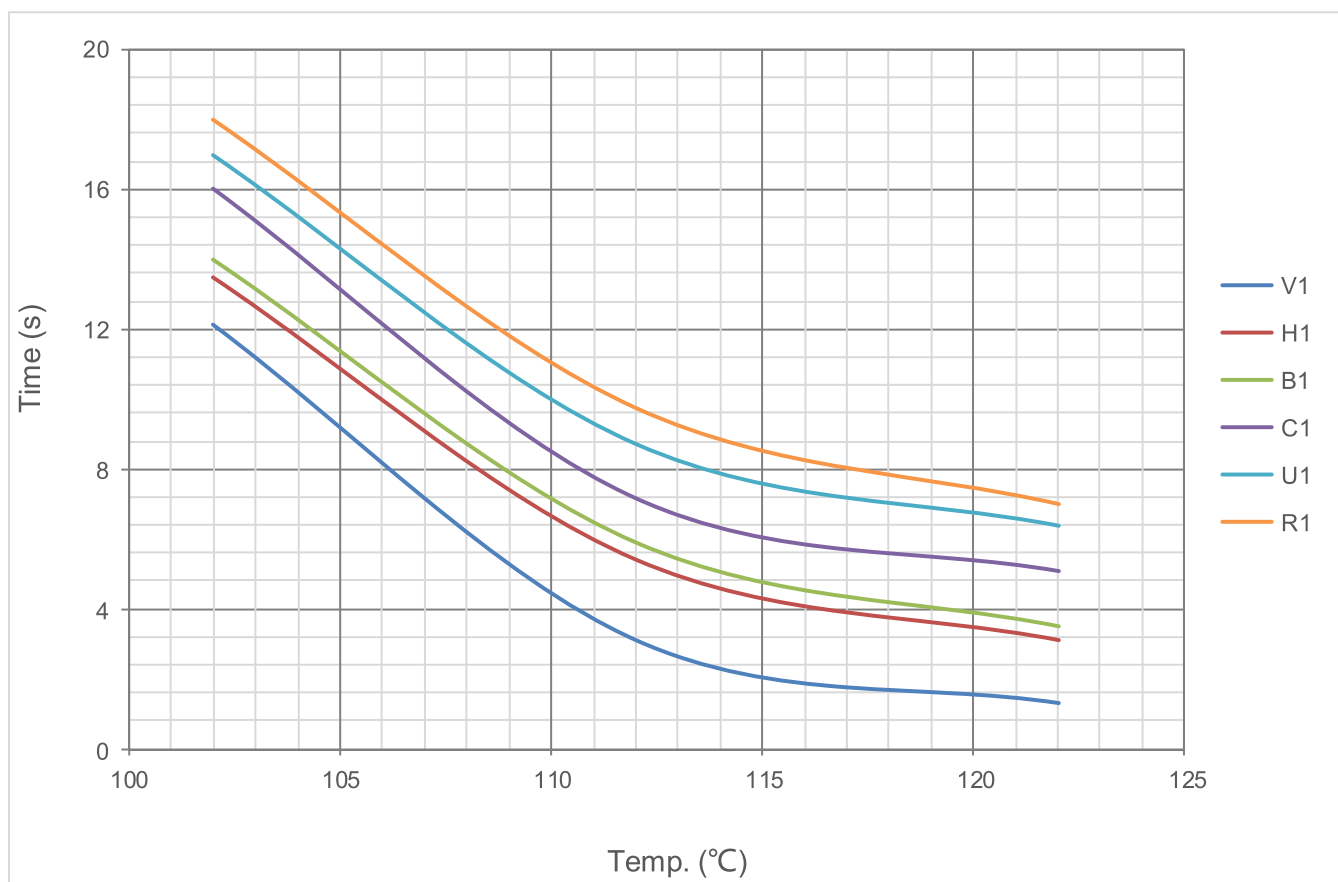
Temperature-Time Curve

T_f : 102 °C

The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)

Thermal-link

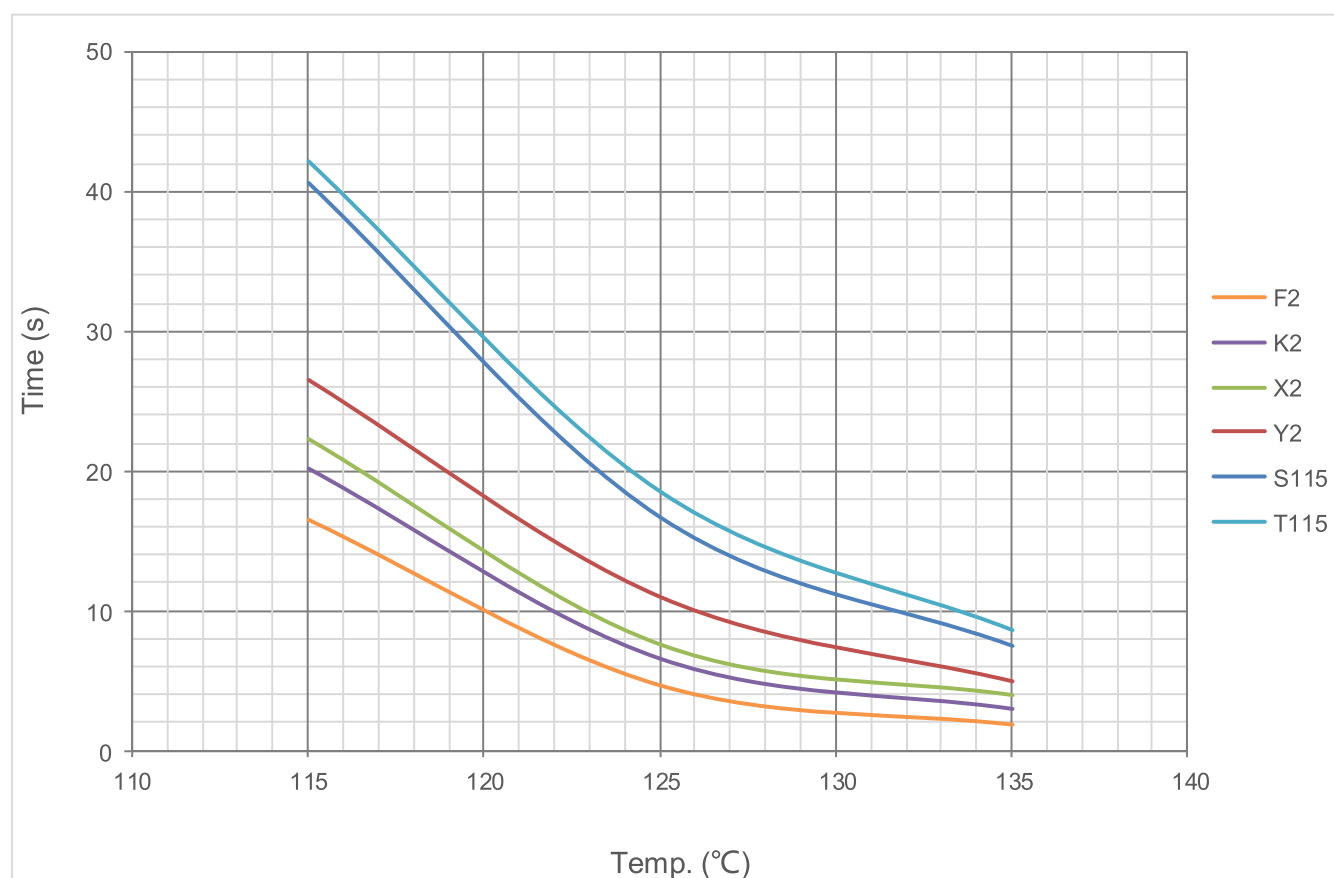
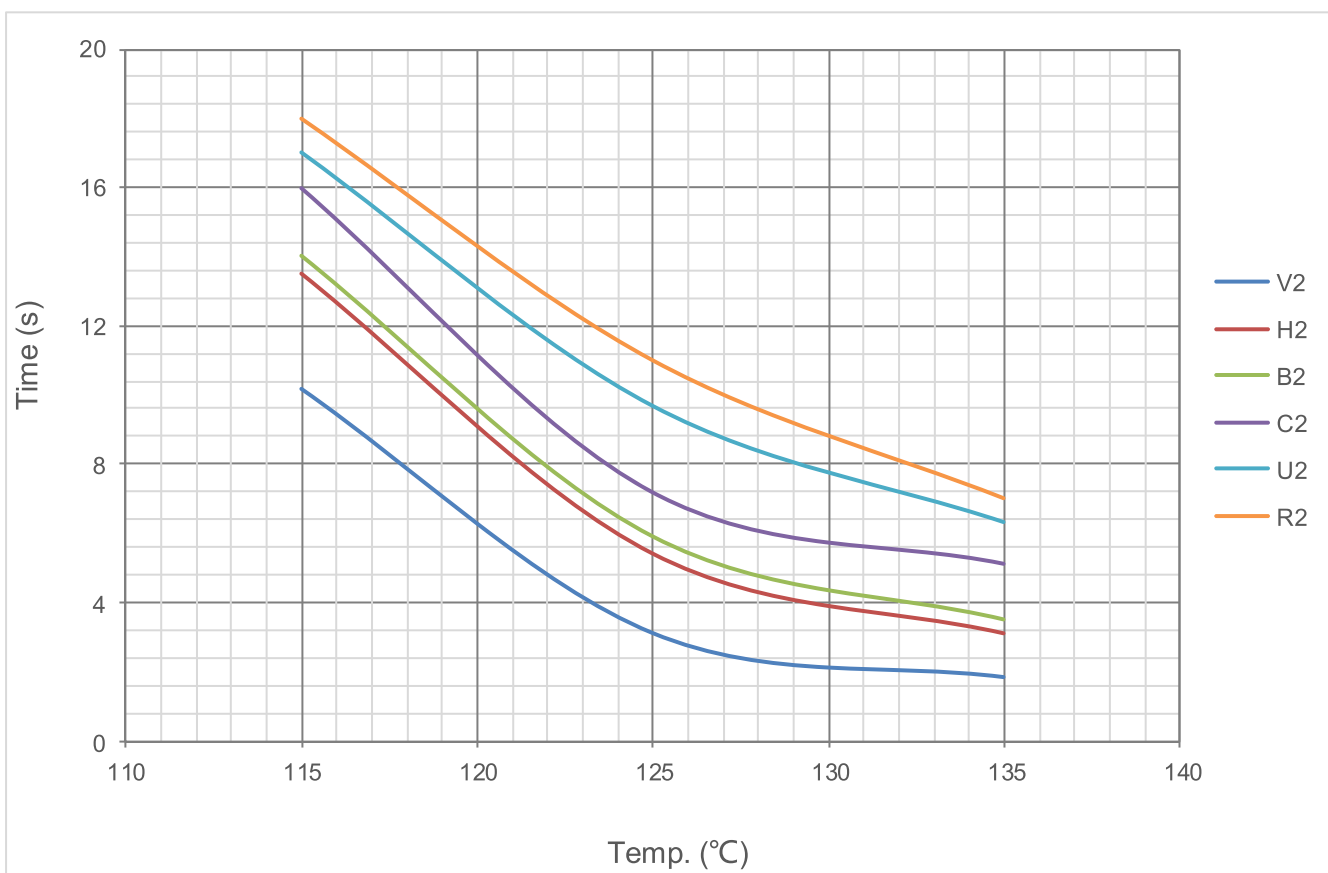
Thermal-link



Temperature-Time Curve

T_f : 115 °C

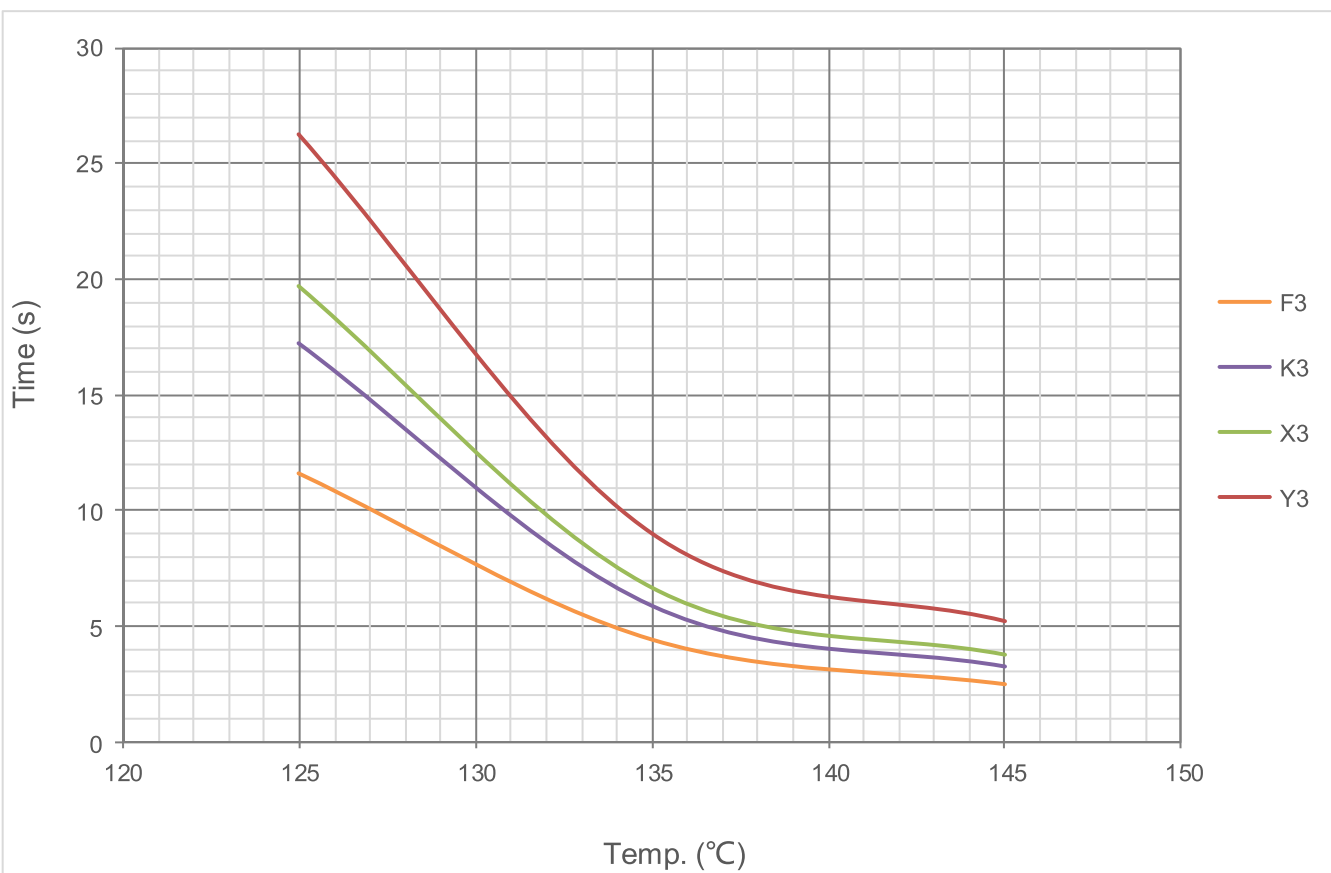
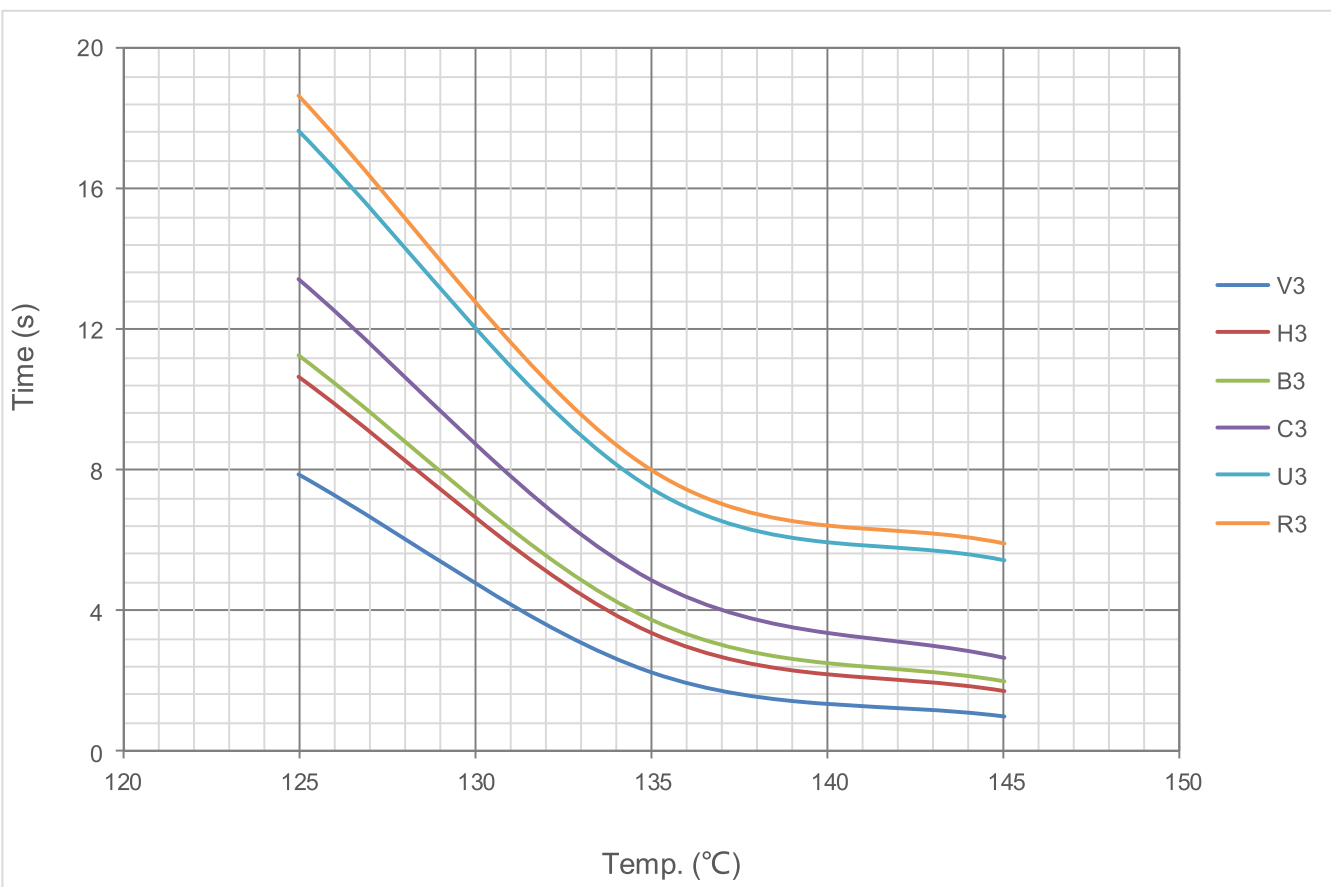
The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



Temperature-Time Curve

T_f : 125 °C

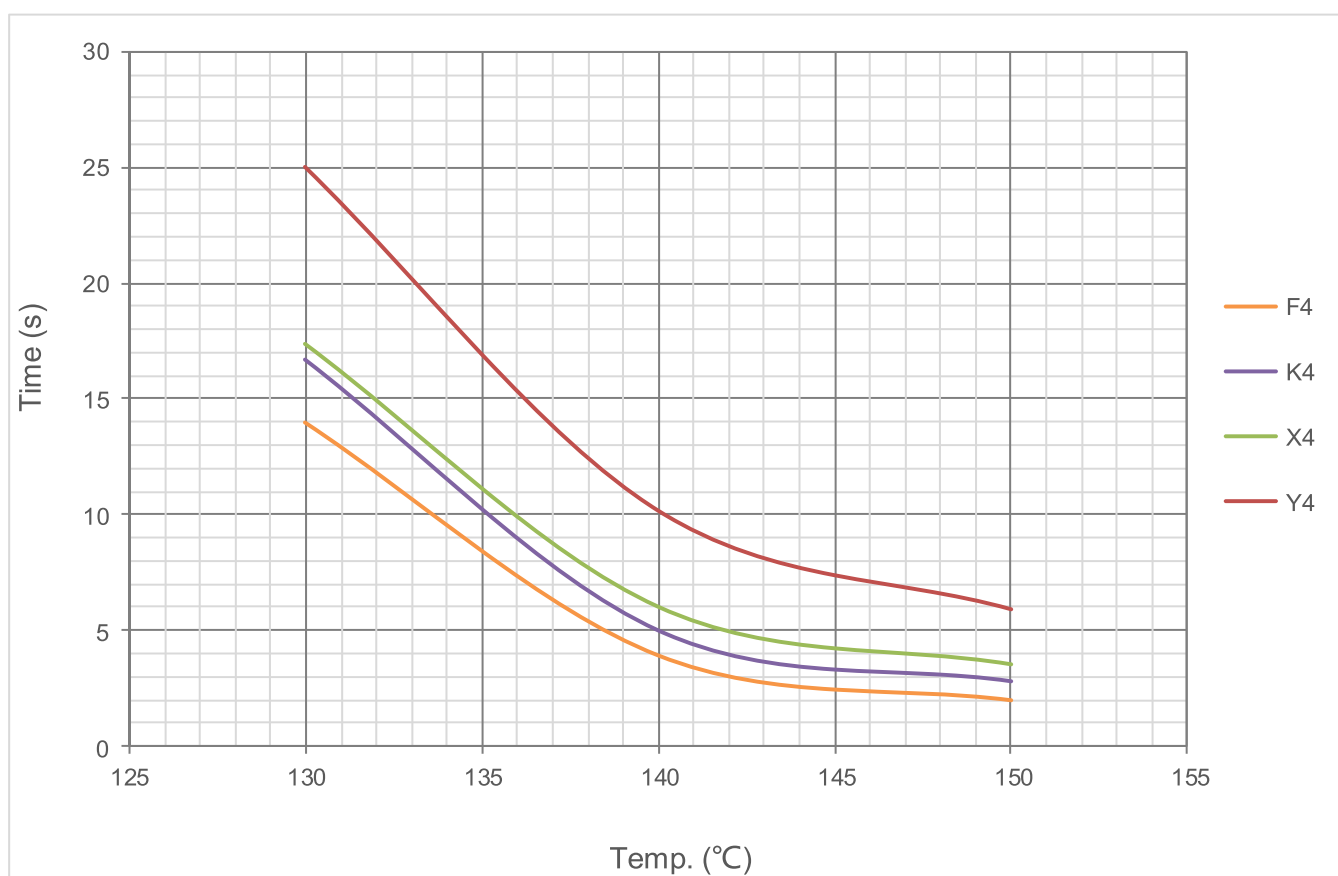
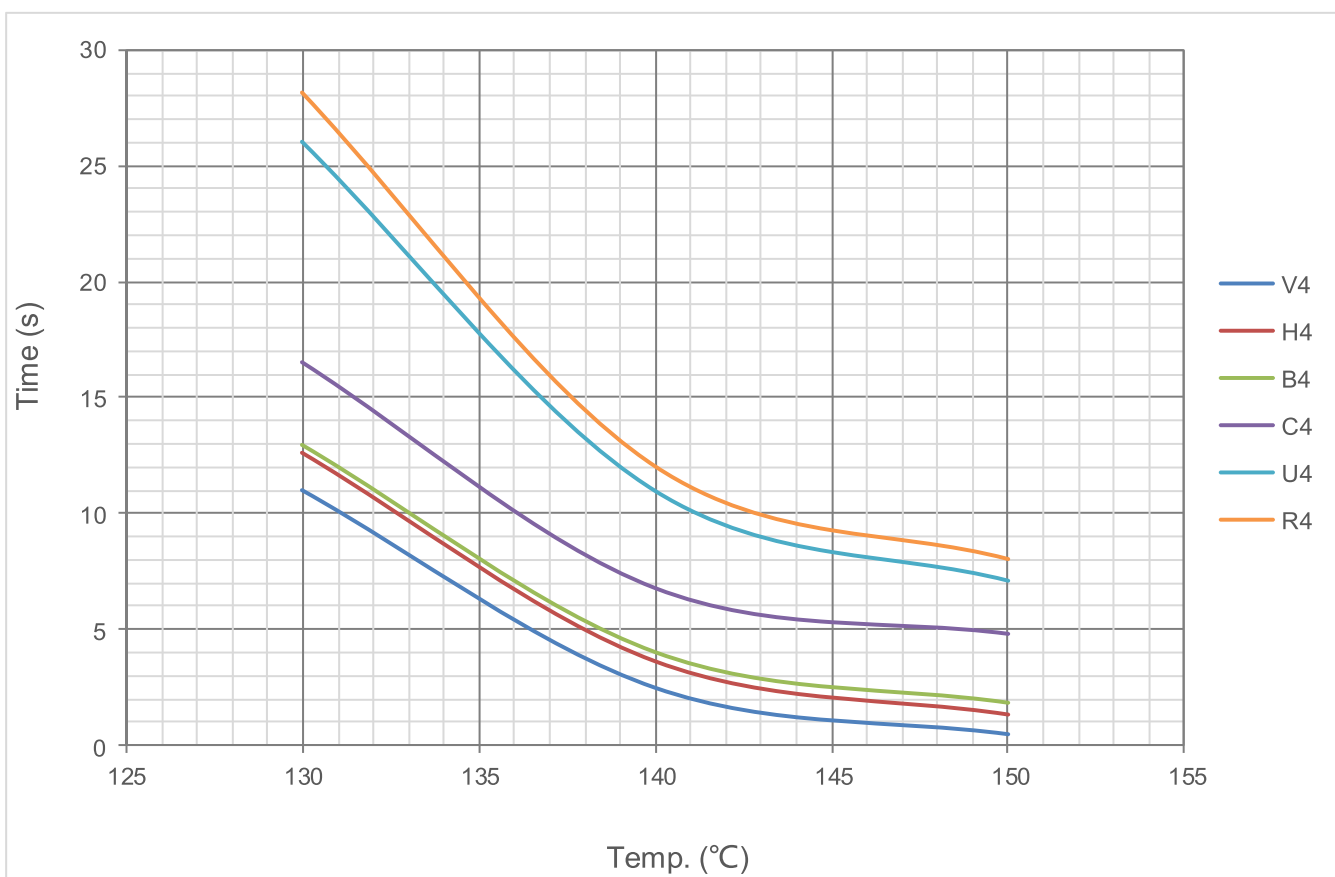
The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



Temperature-Time Curve

T_f : 130 °C

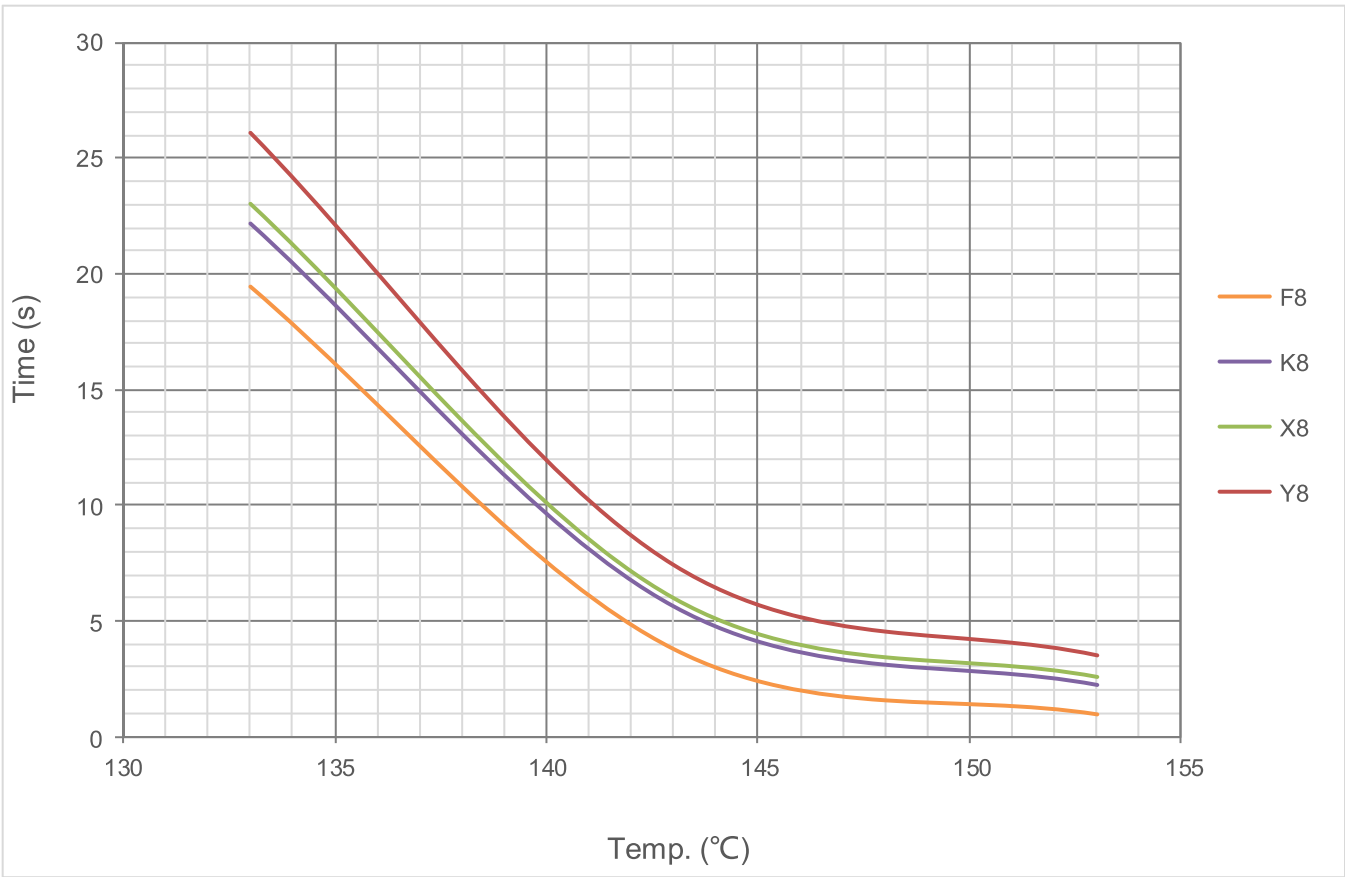
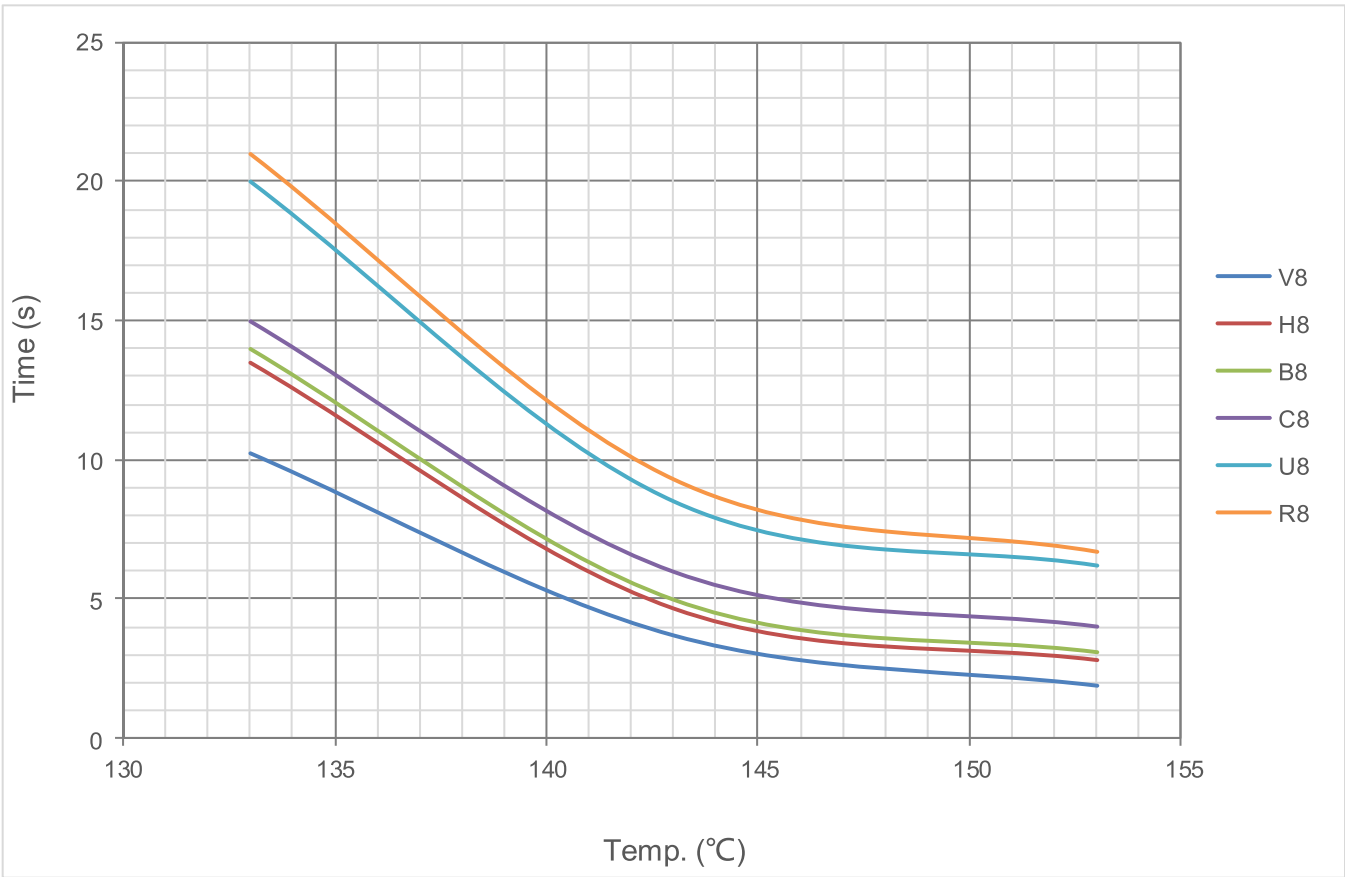
The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



Temperature-Time Curve

T_f : 133 °C

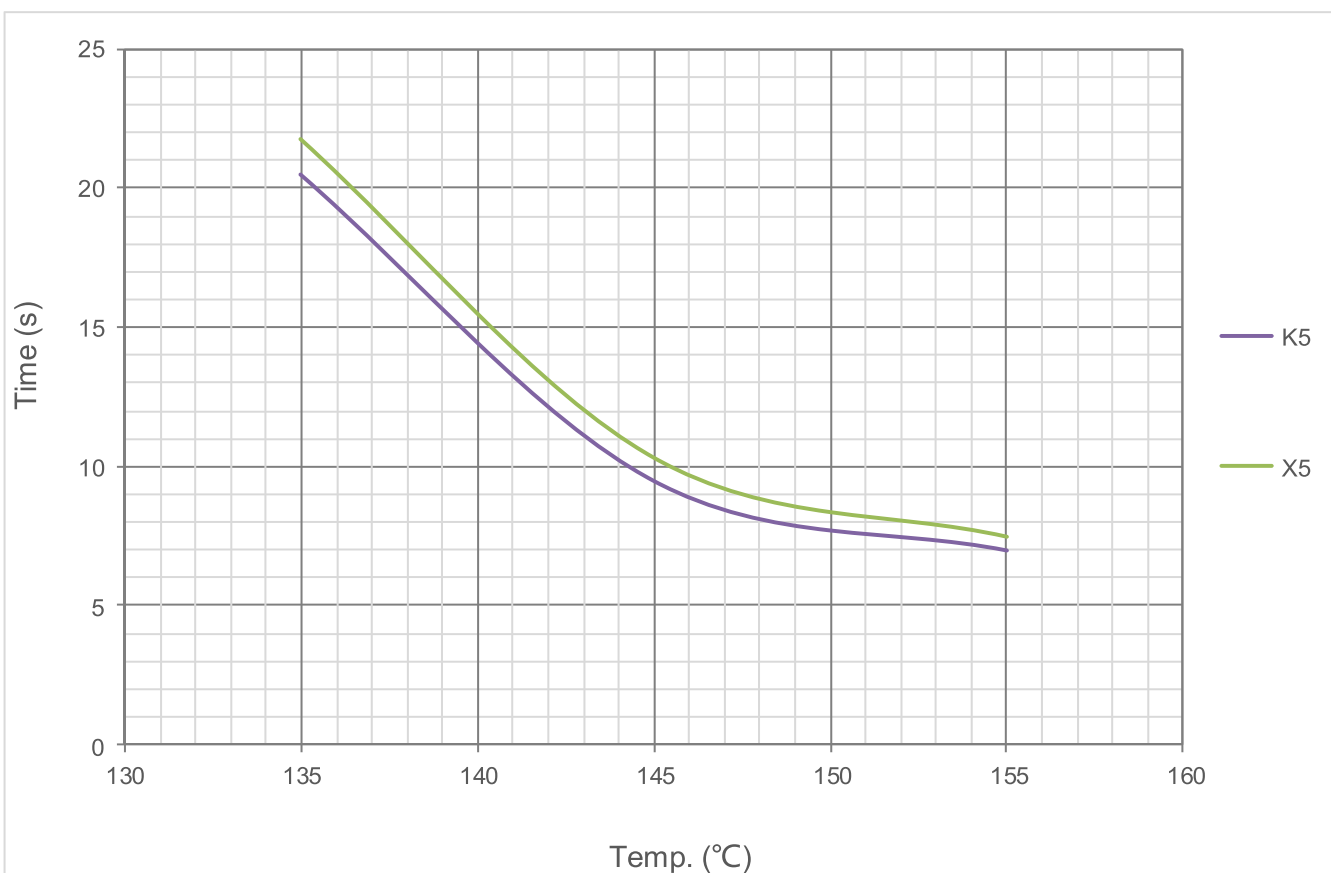
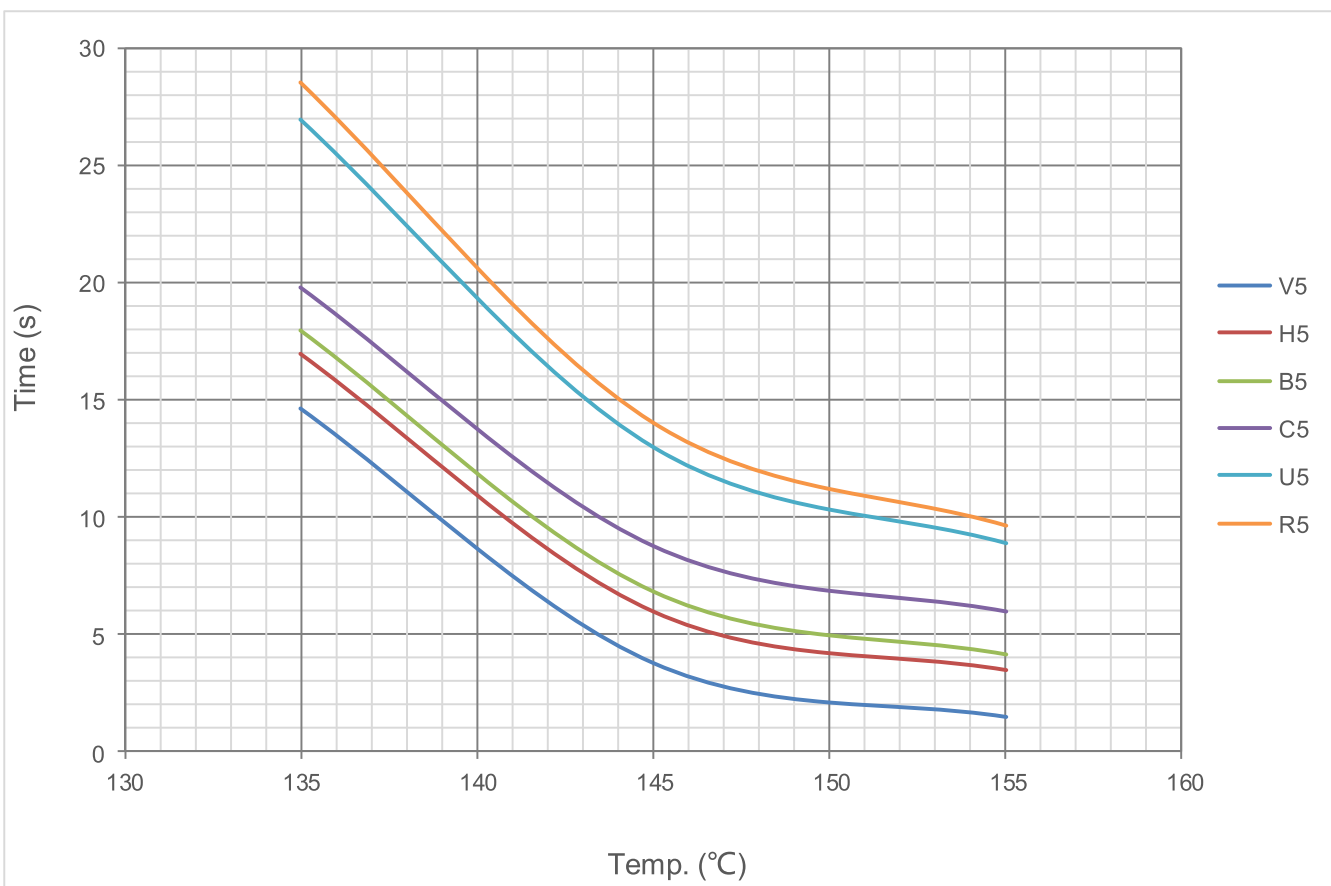
The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



Temperature-Time Curve

T_f : 135 °C

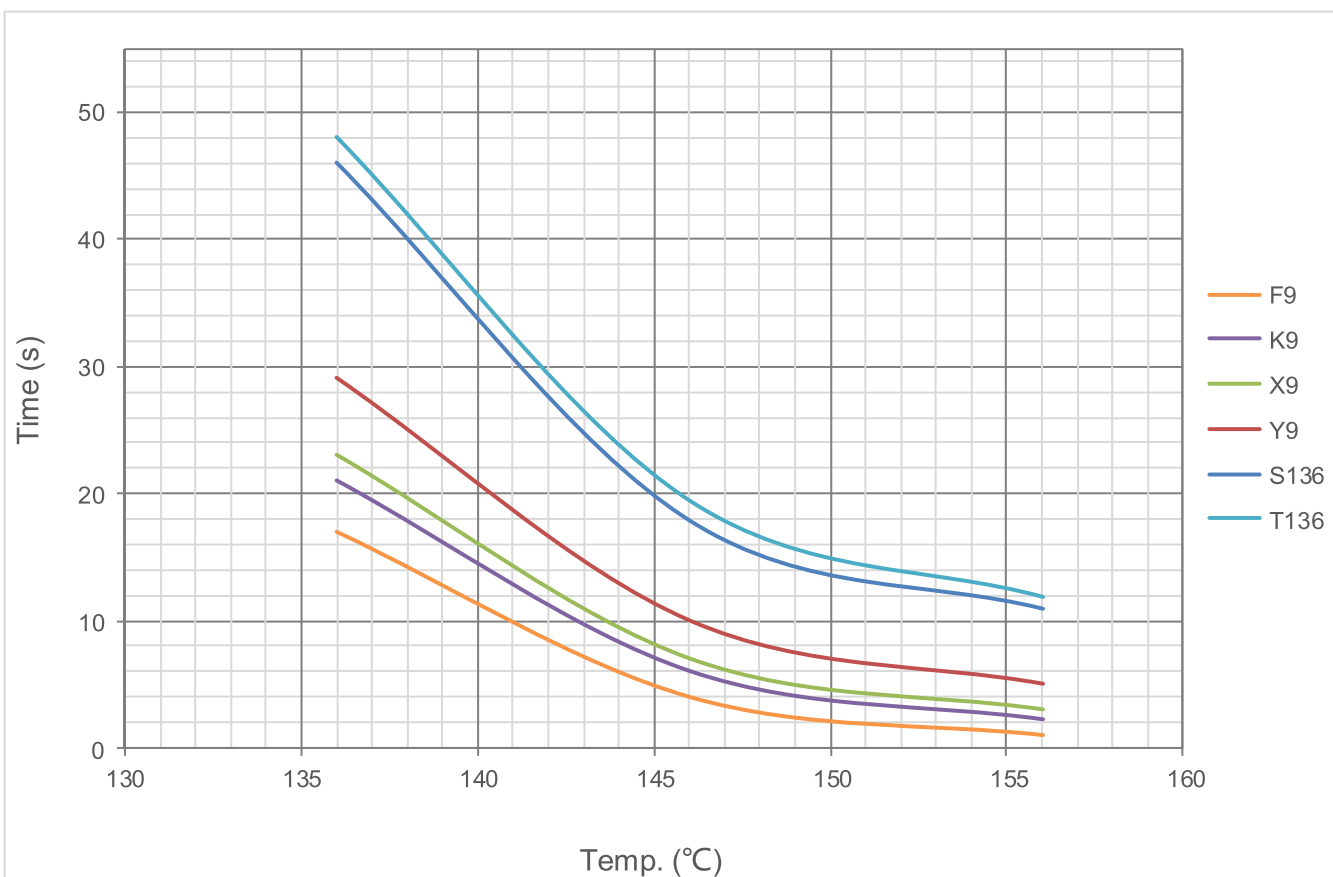
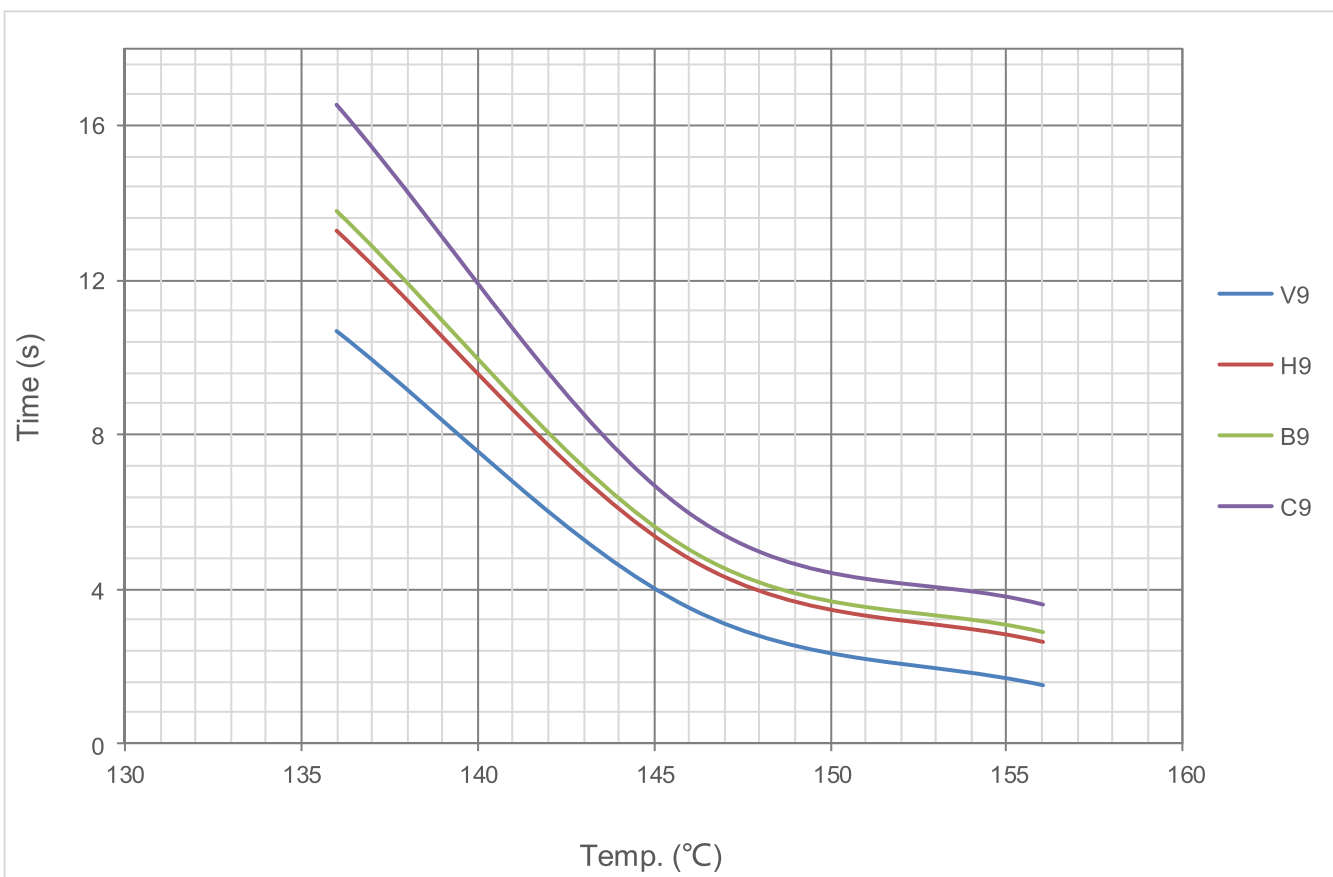
The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



Temperature-Time Curve

T_f : 136 °C

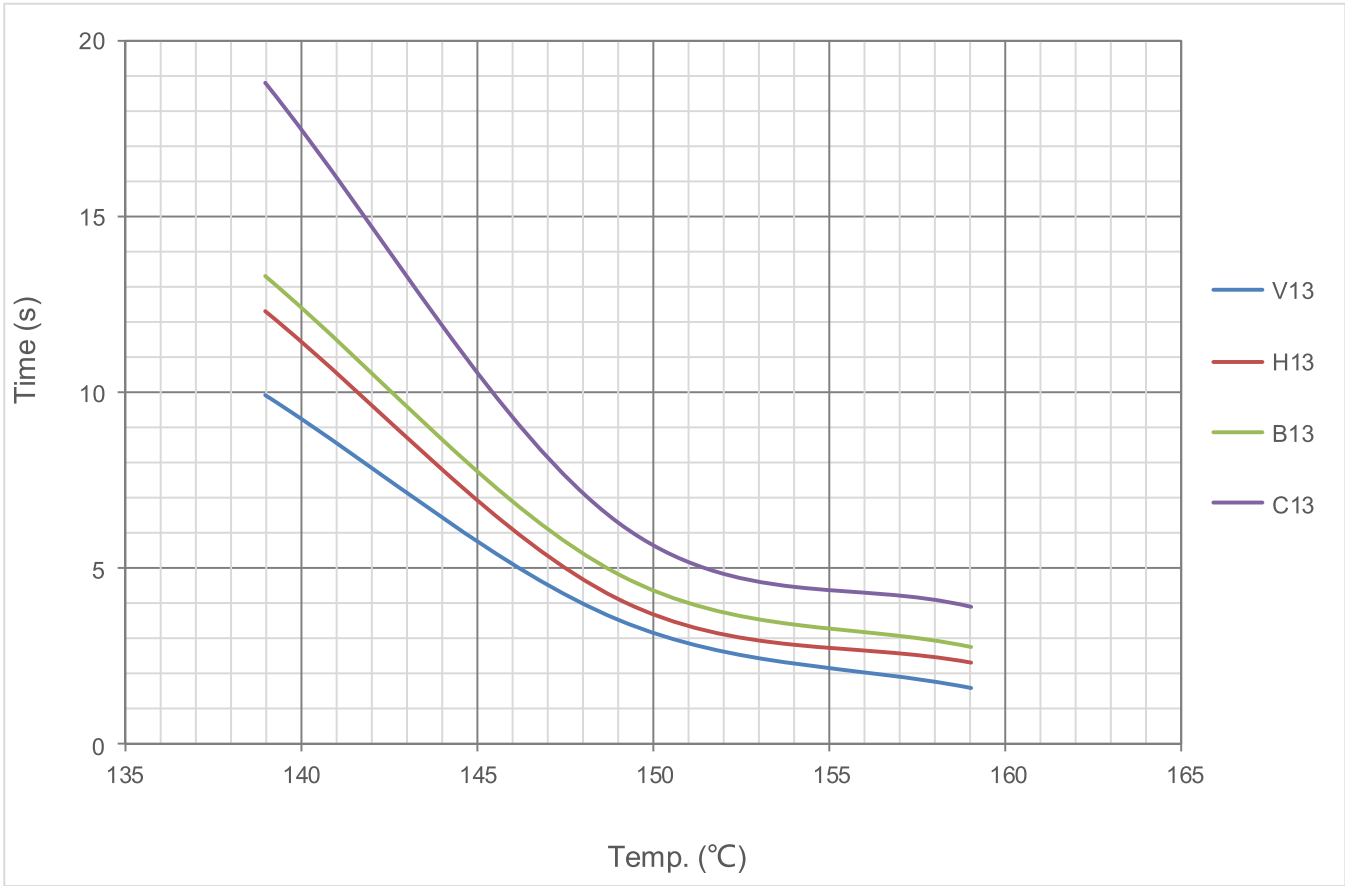
The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



Temperature-Time Curve

T_f : 139 °C

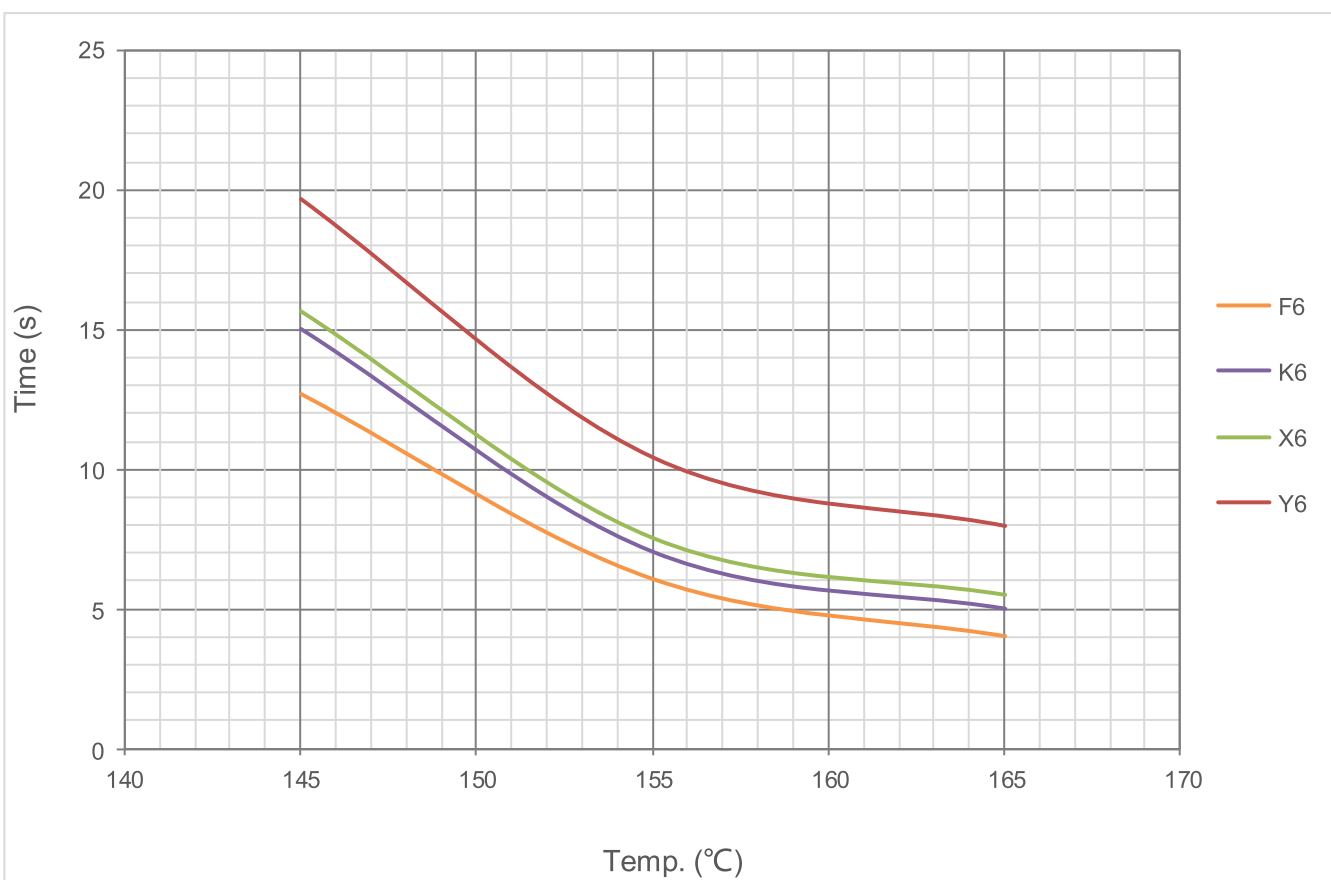
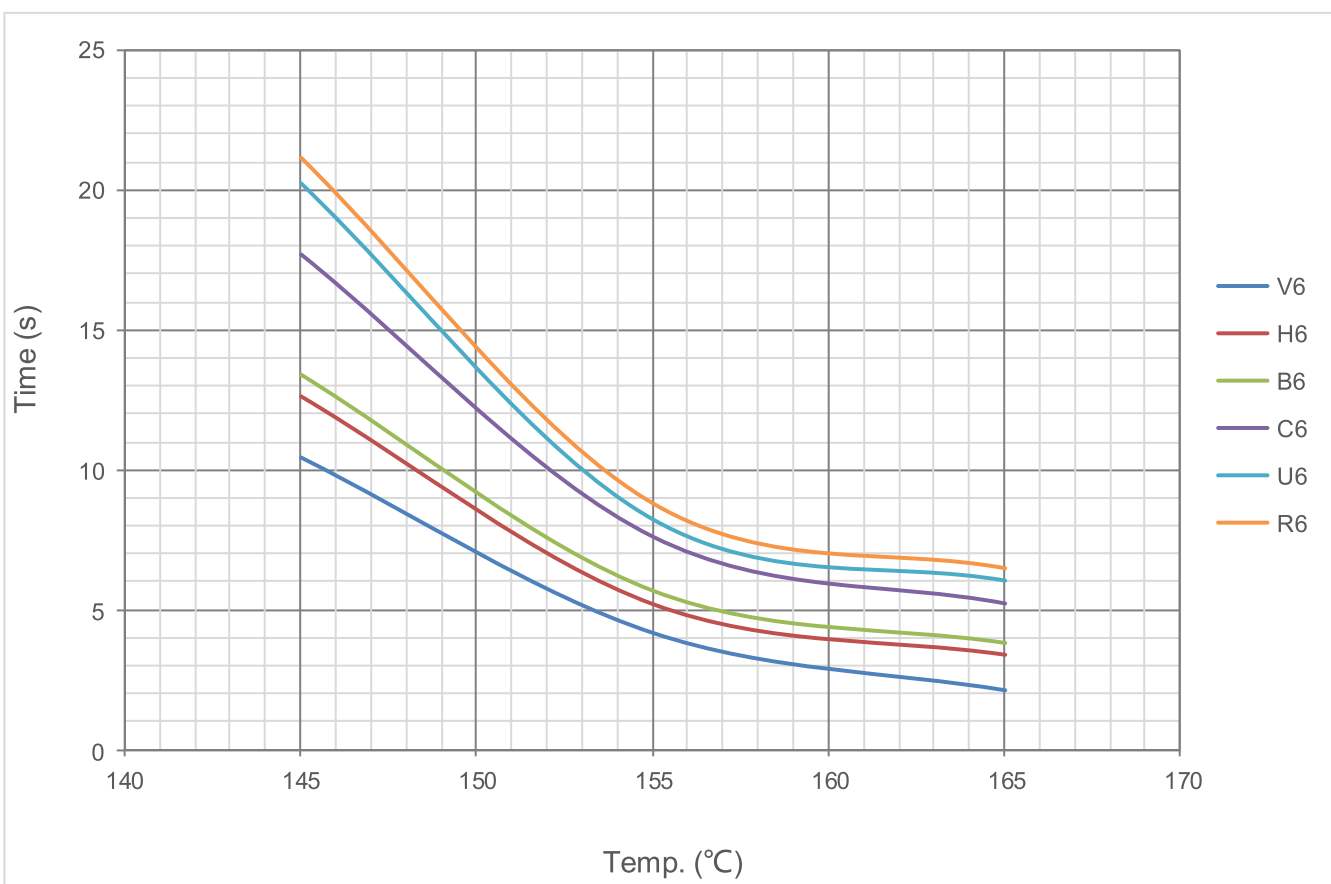
The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



Temperature-Time Curve

T_f : 145 °C

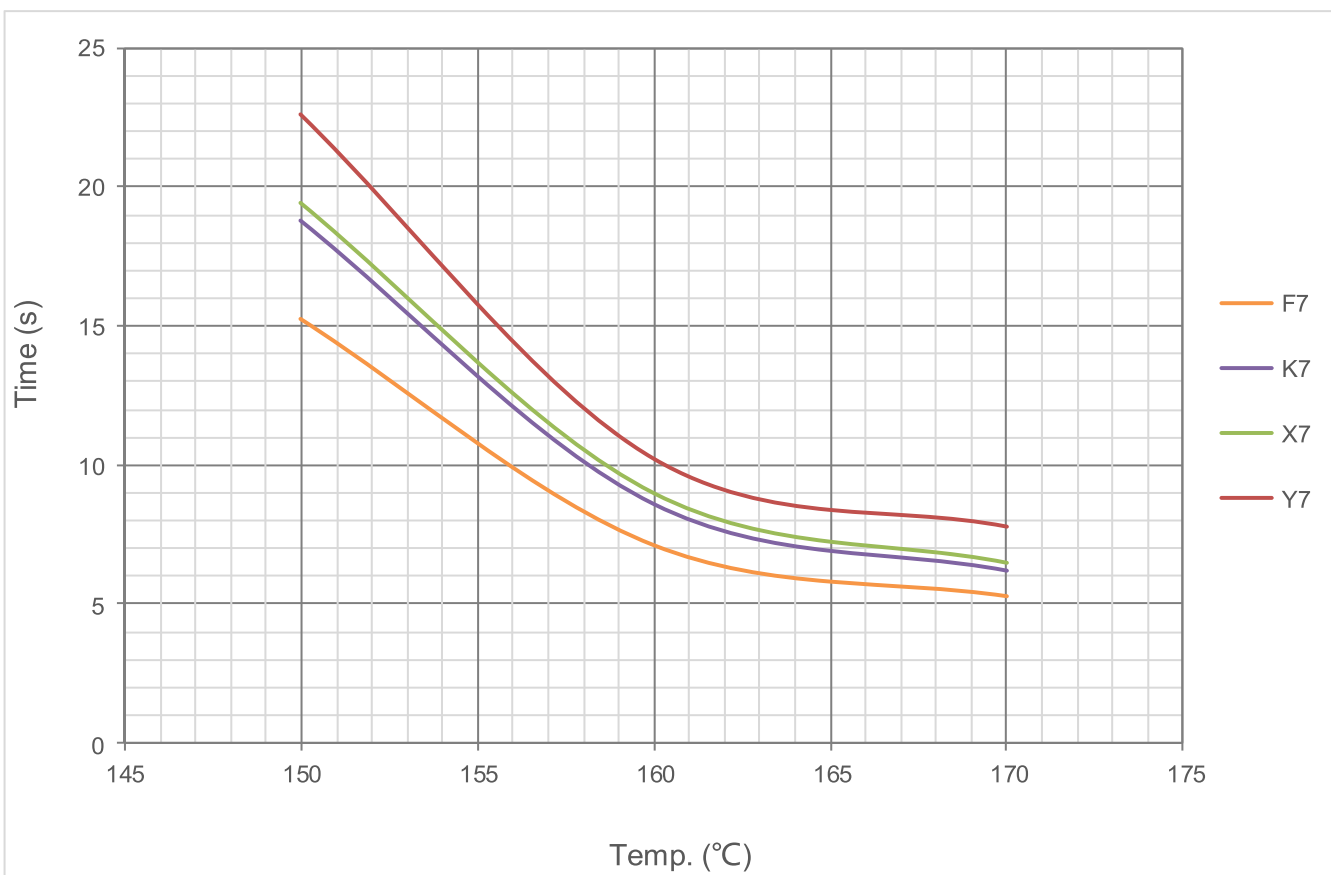
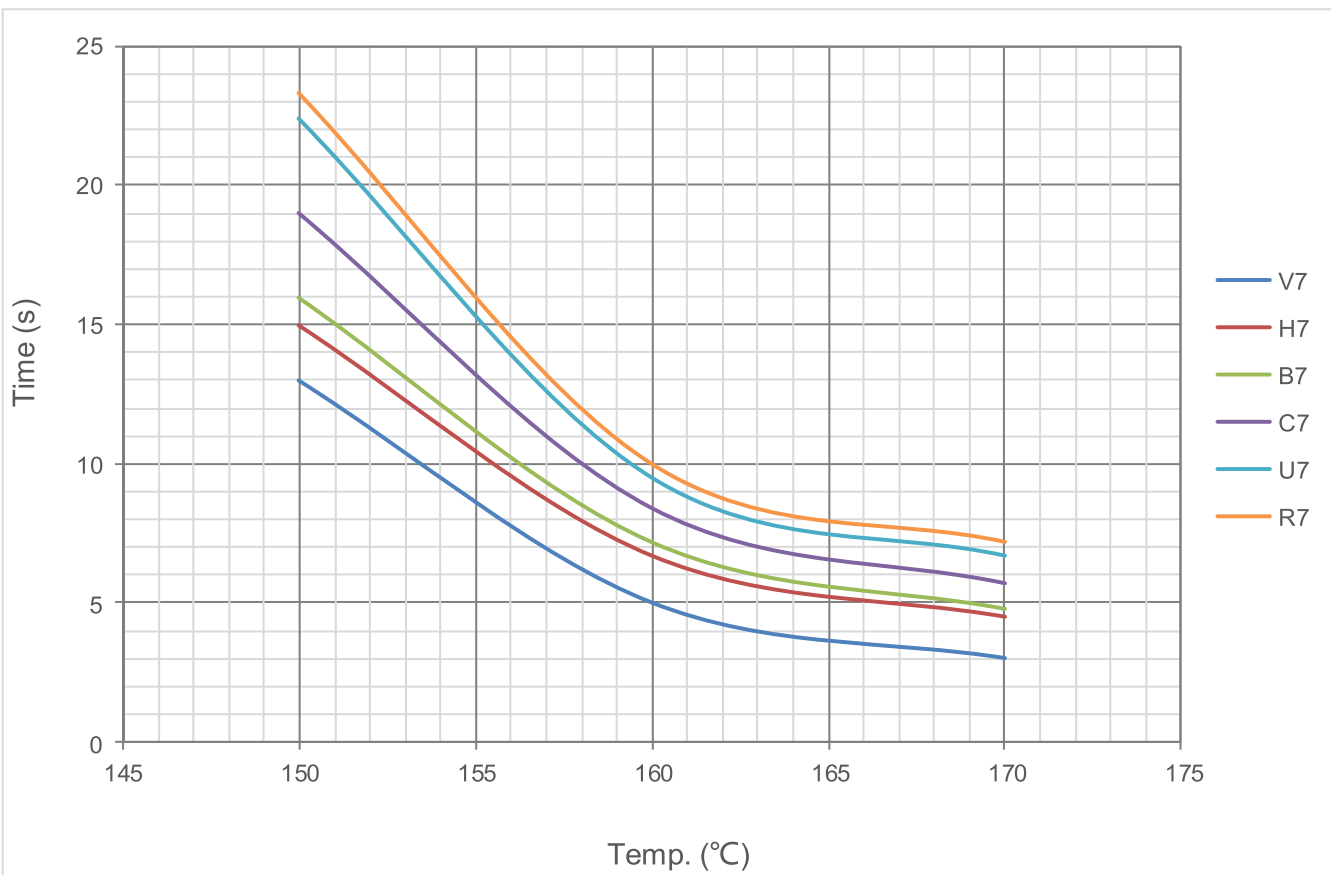
The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



Temperature-Time Curve

T_f : 150 °C

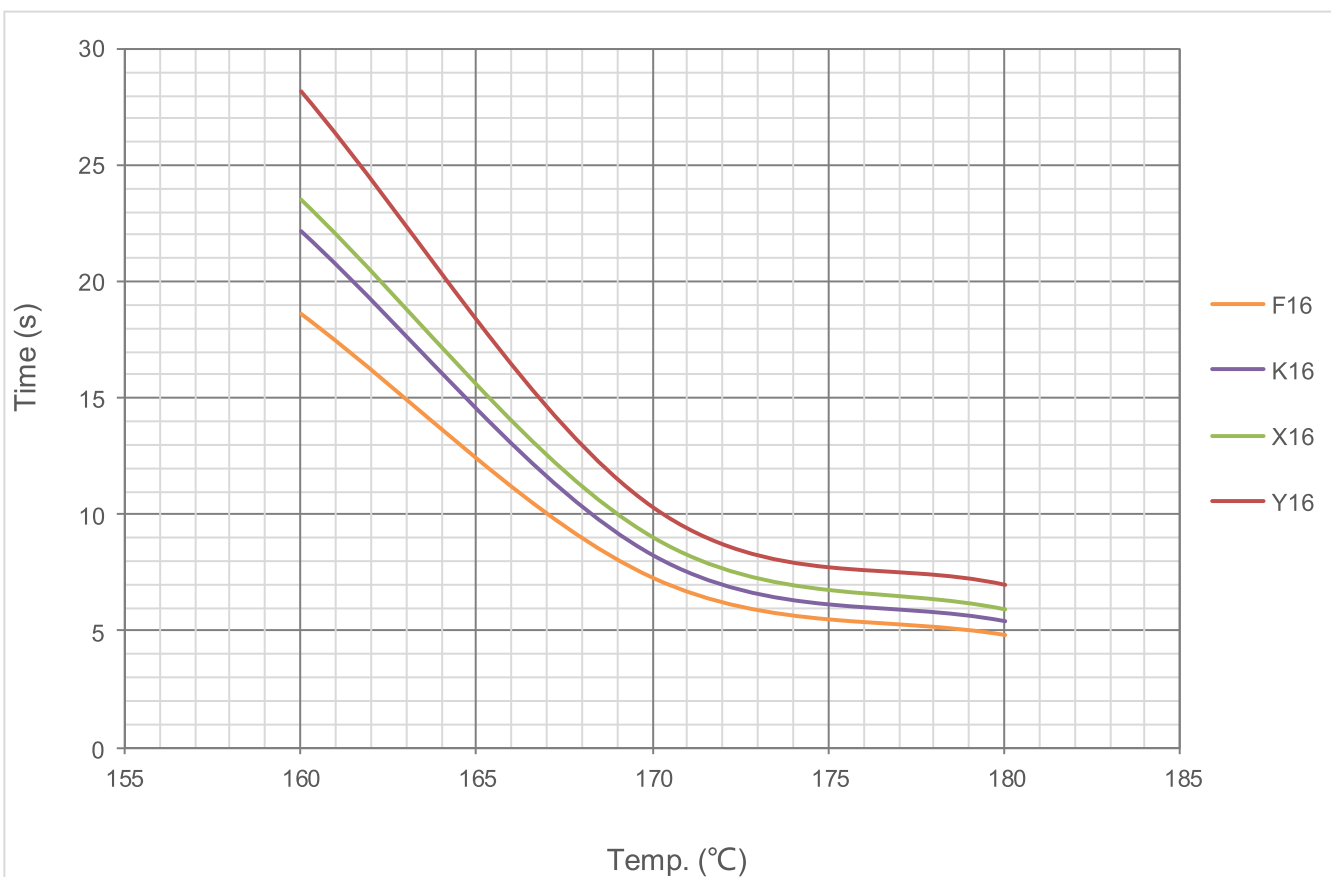
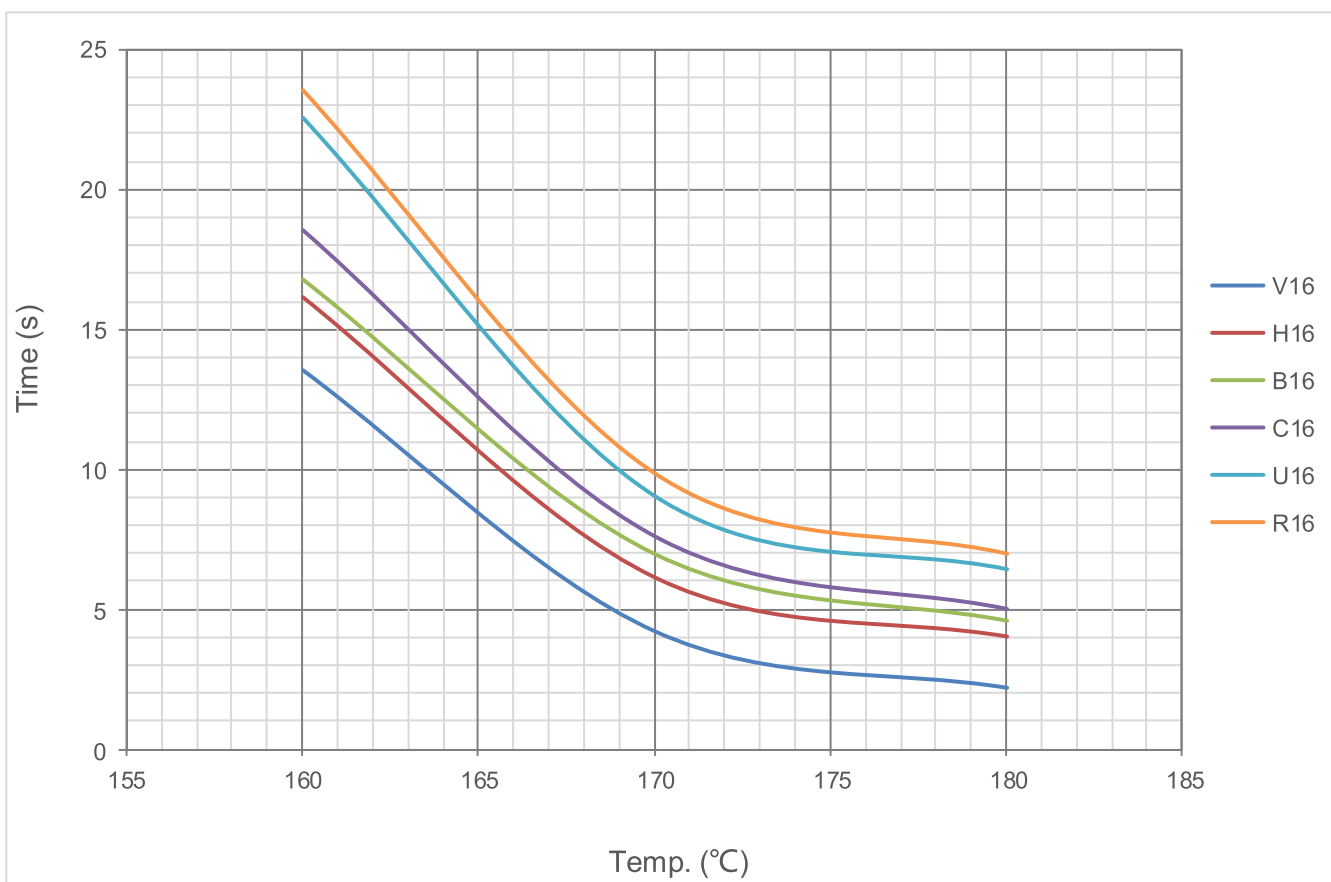
The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



Temperature-Time Curve

T_f : 160 °C

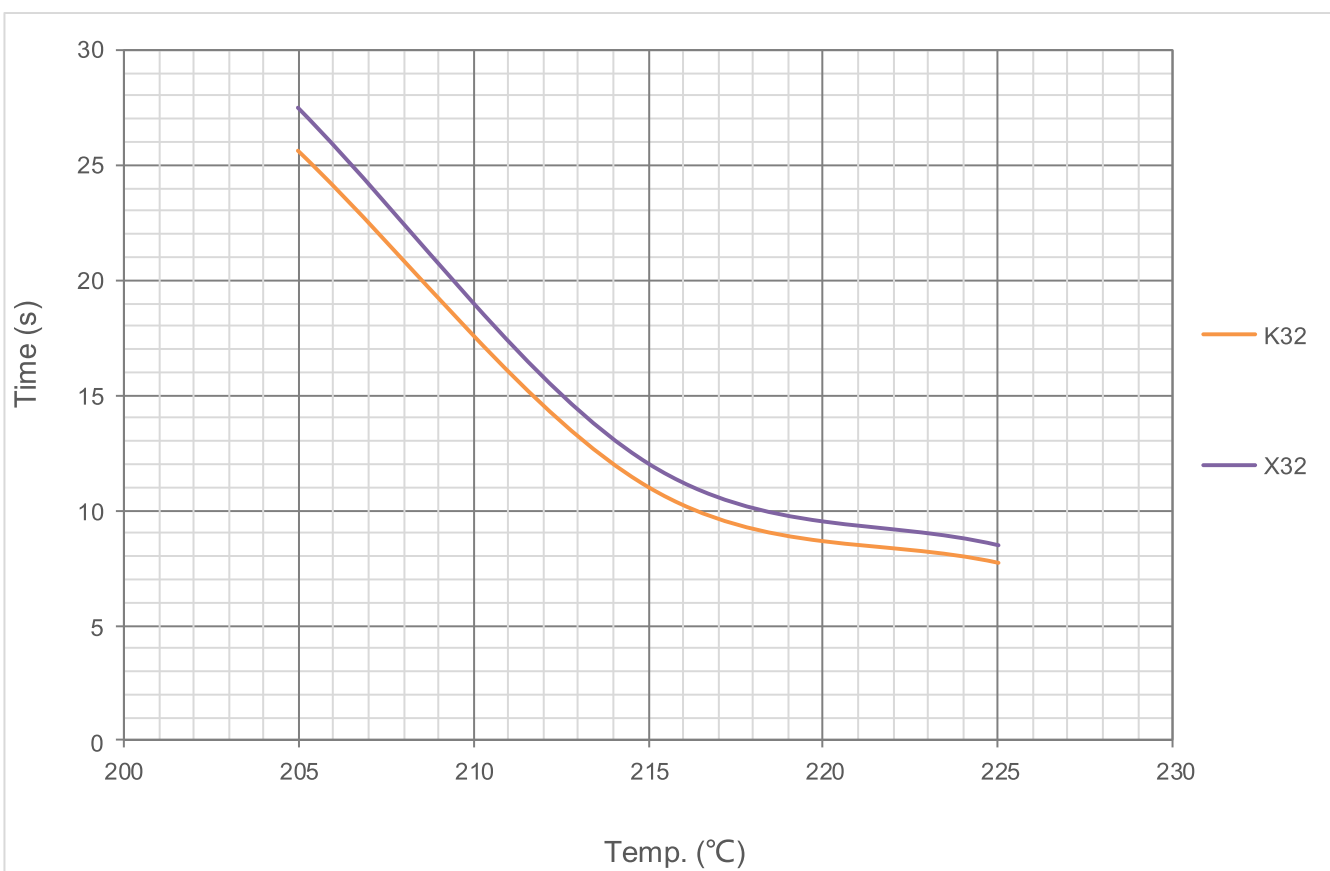
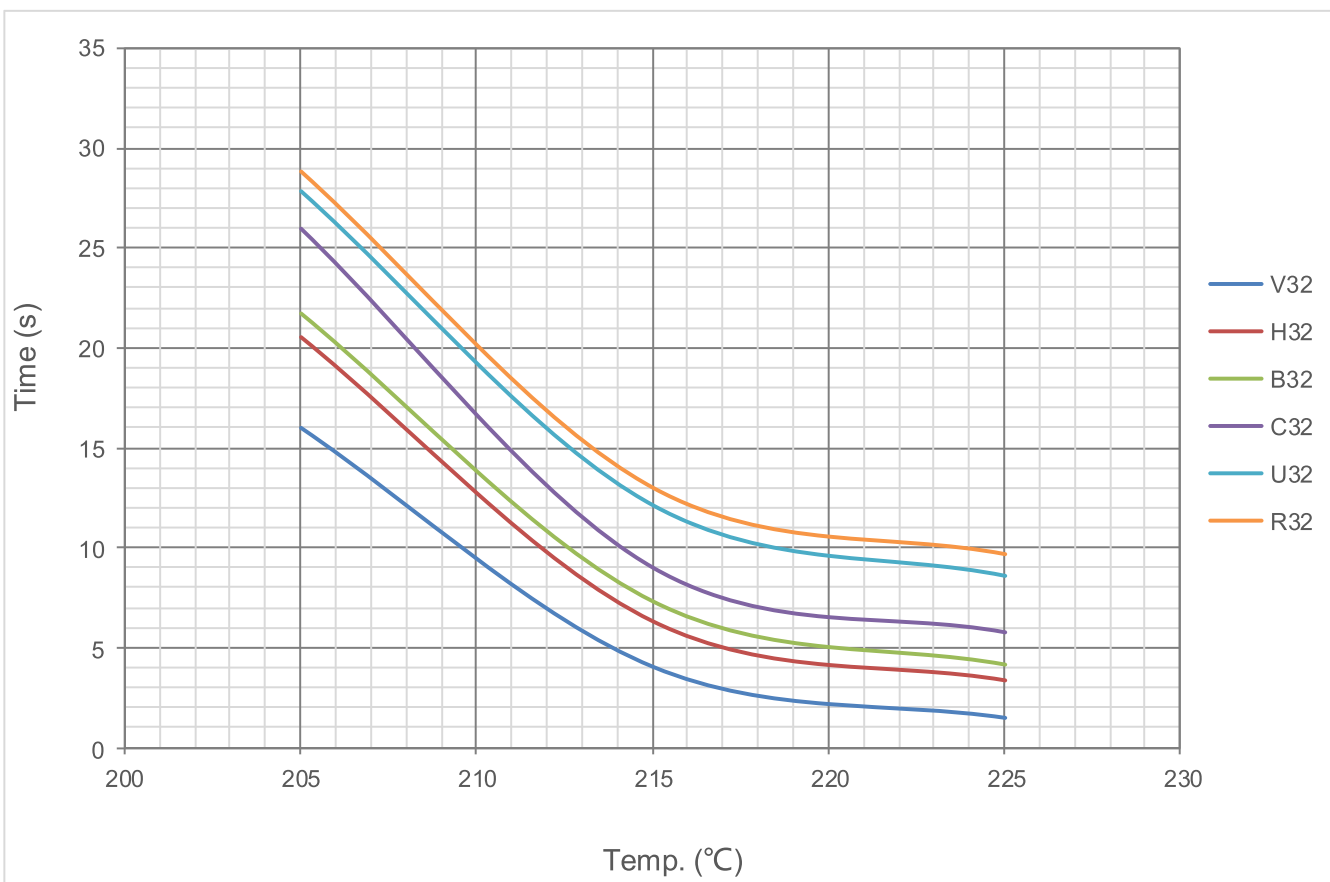
The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



Temperature-Time Curve

T_f : 205 °C

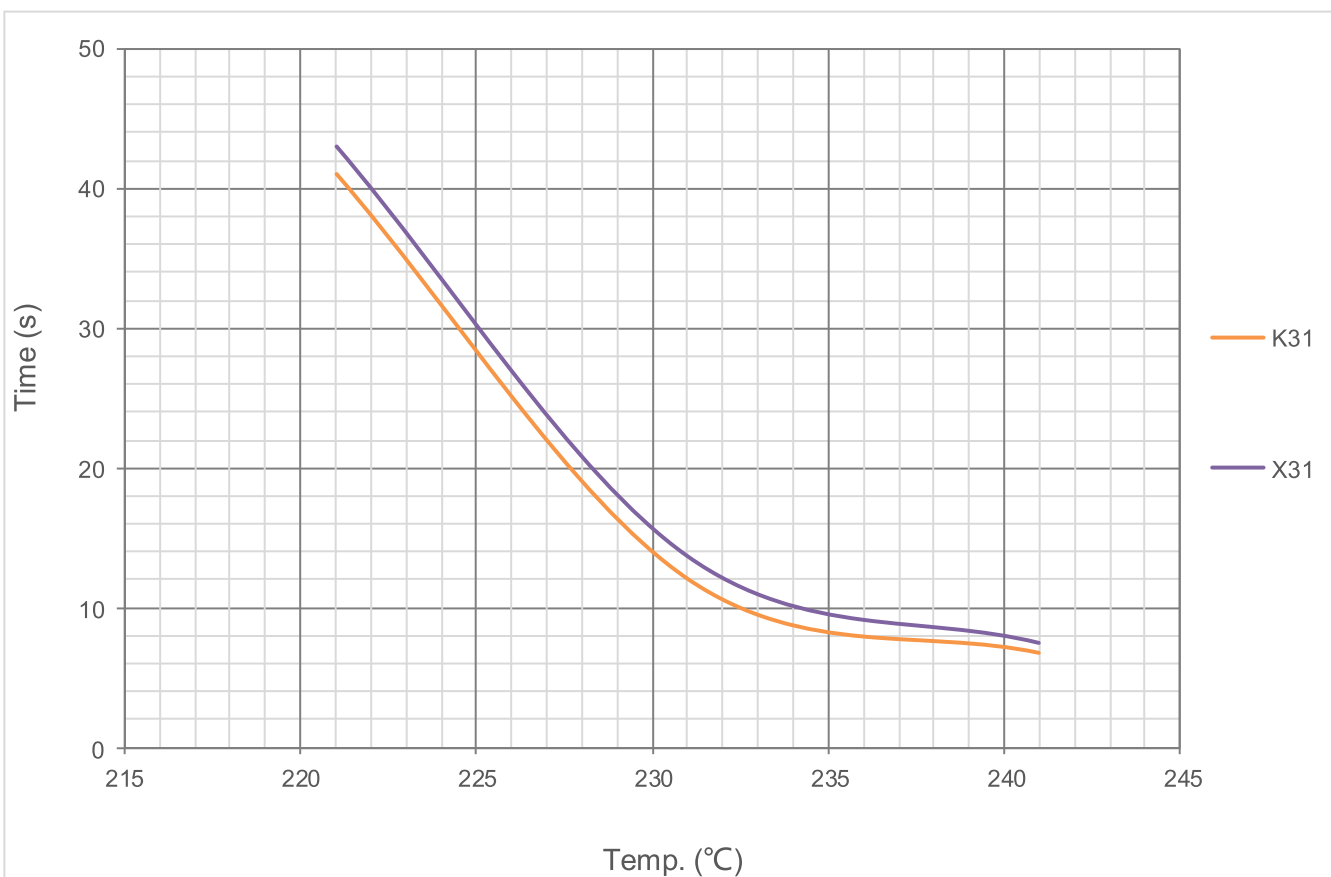
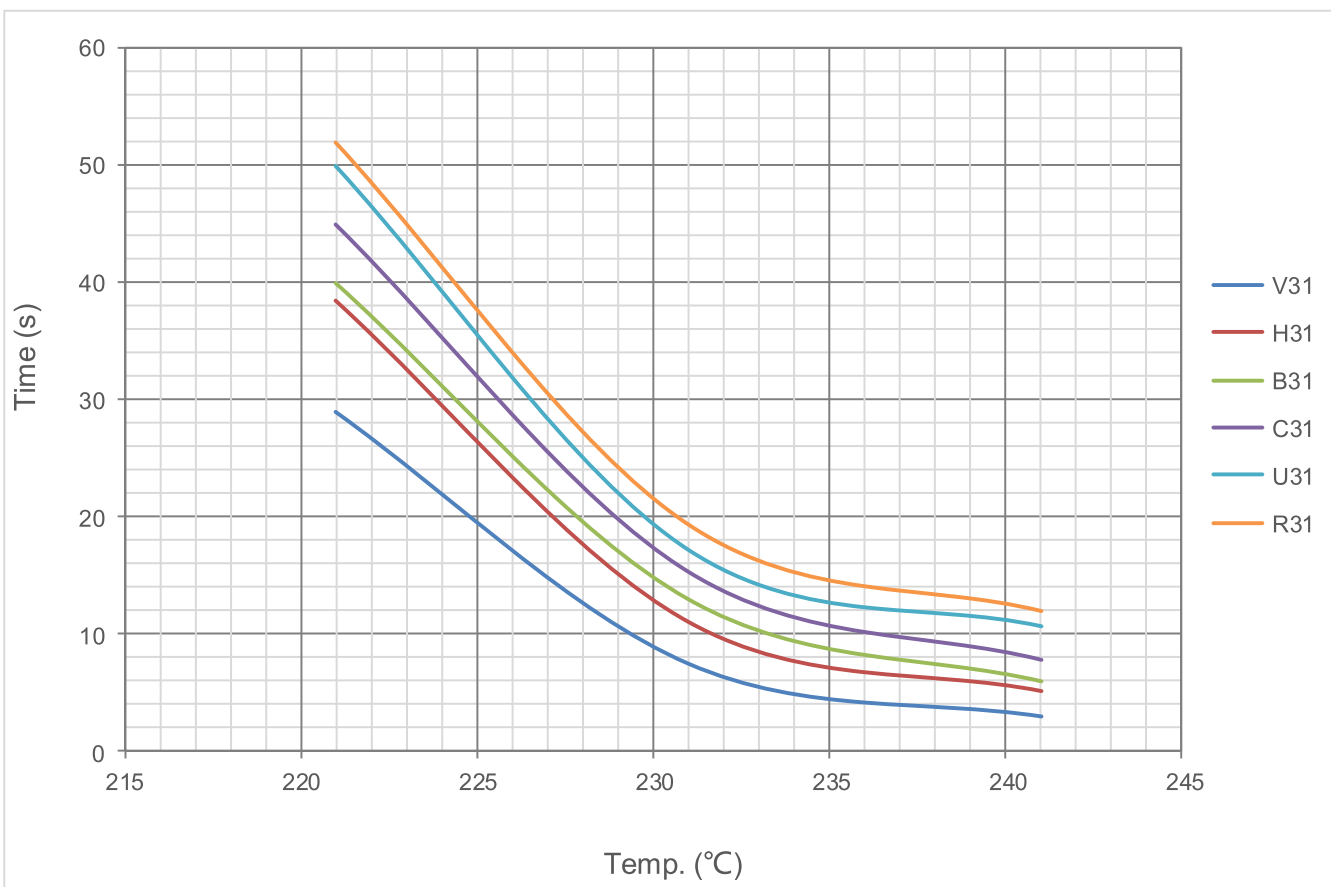
The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



Temperature-Time Curve

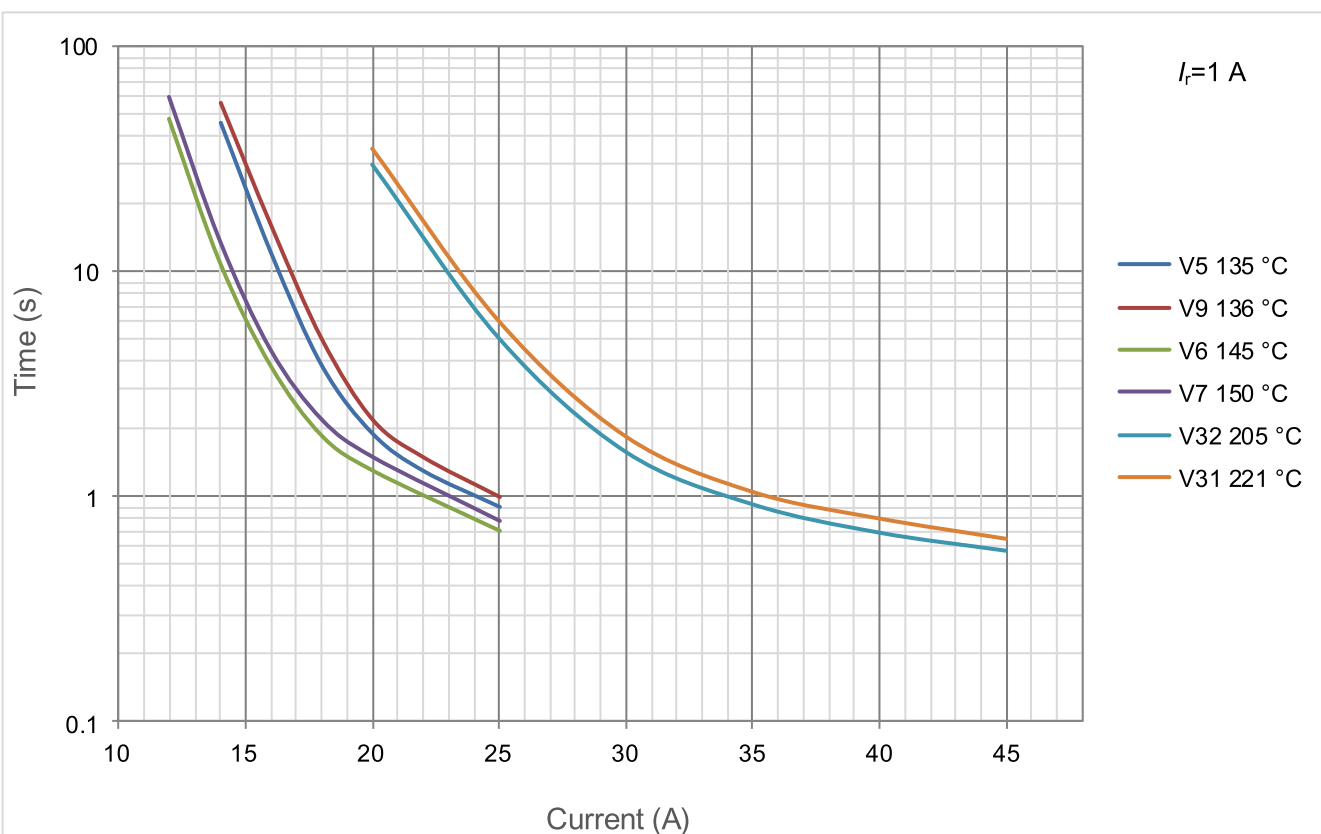
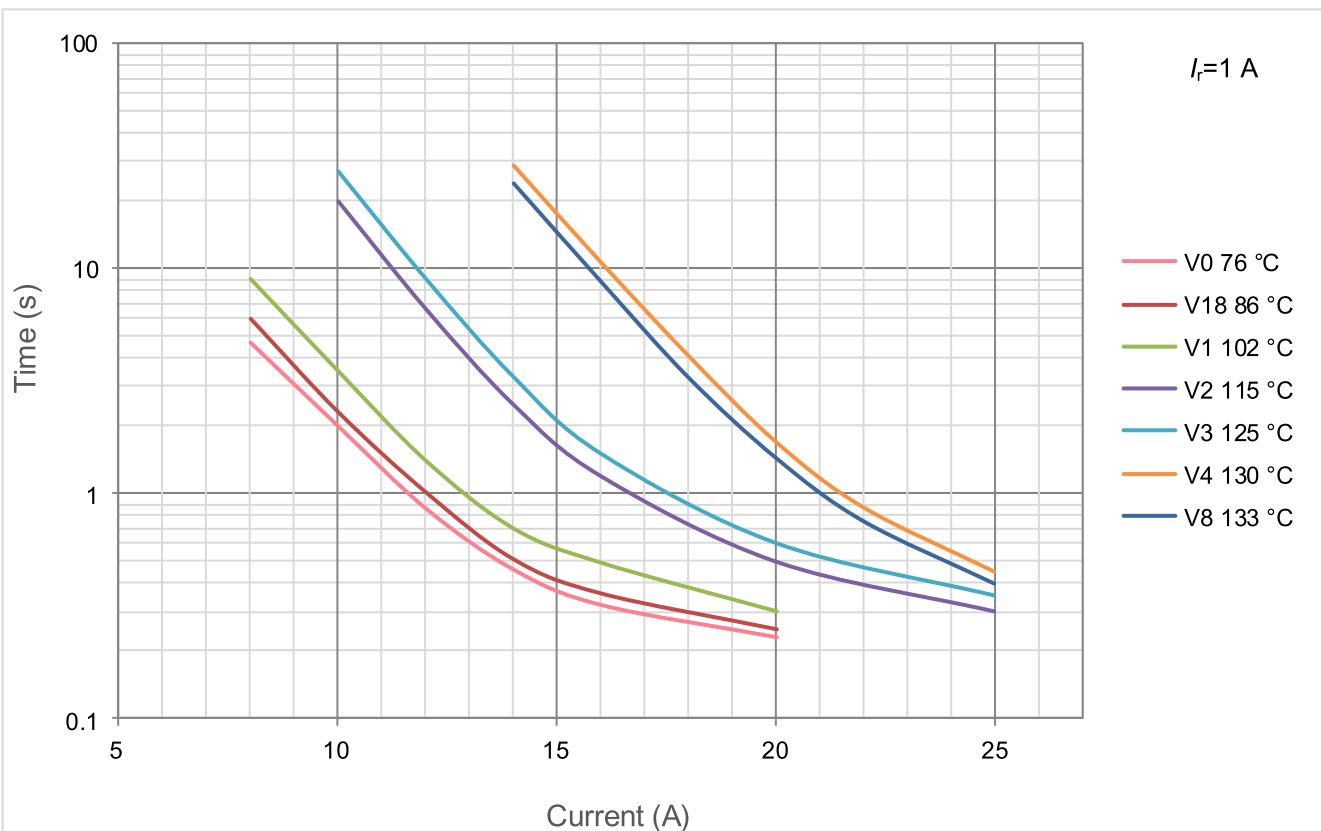
 T_f : 221 °C

The temperature-function time curve of thermal-link in different temperature oil bath. (This curve is for reference only)



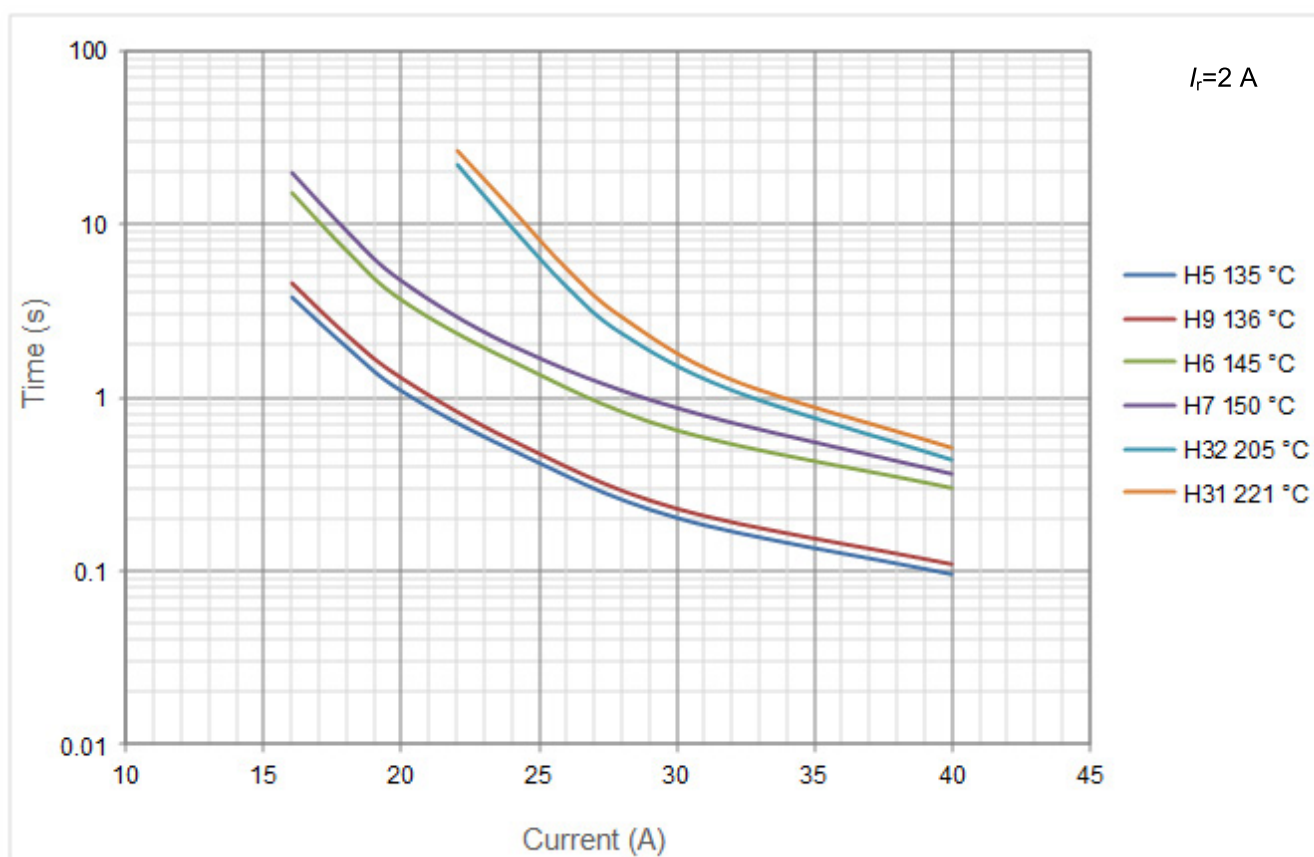
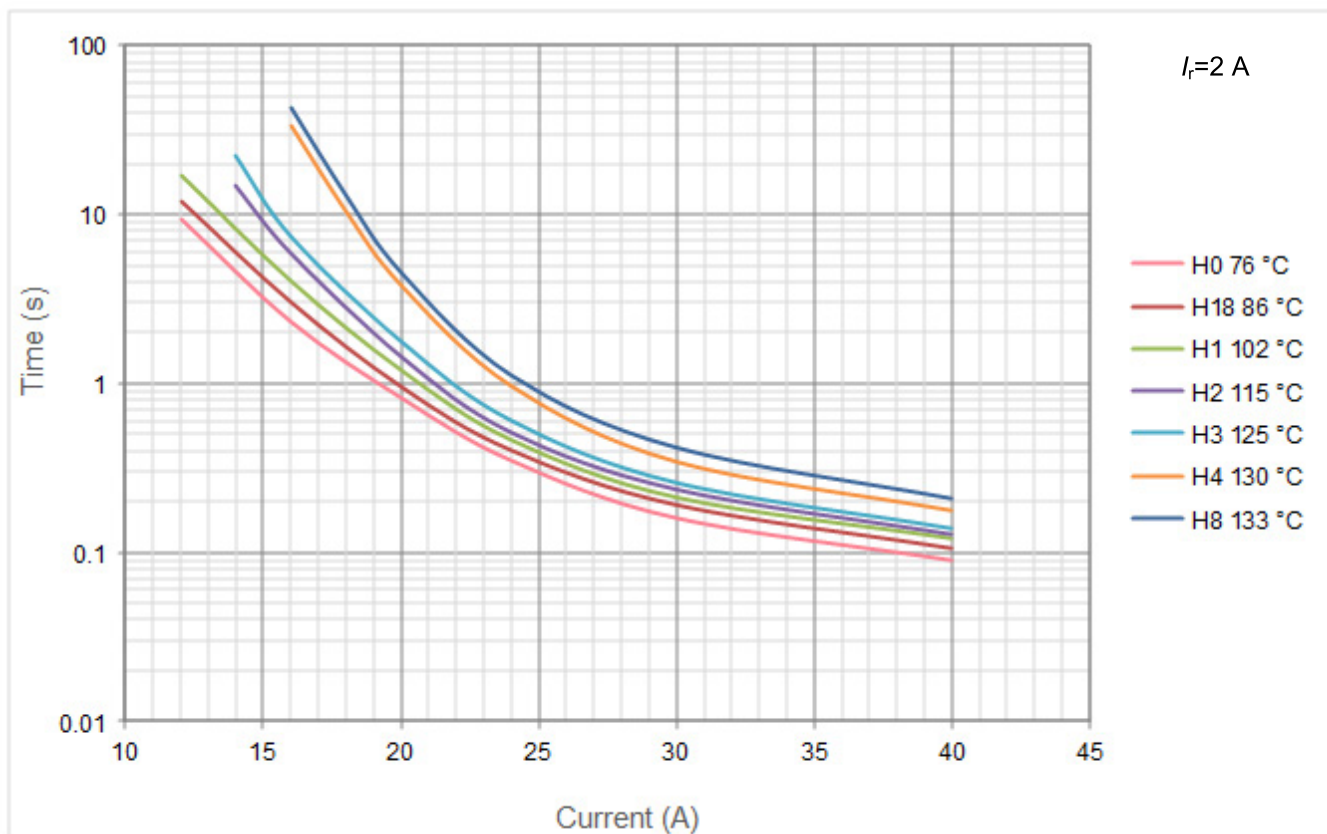
V Series

Current & Time curve for V series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



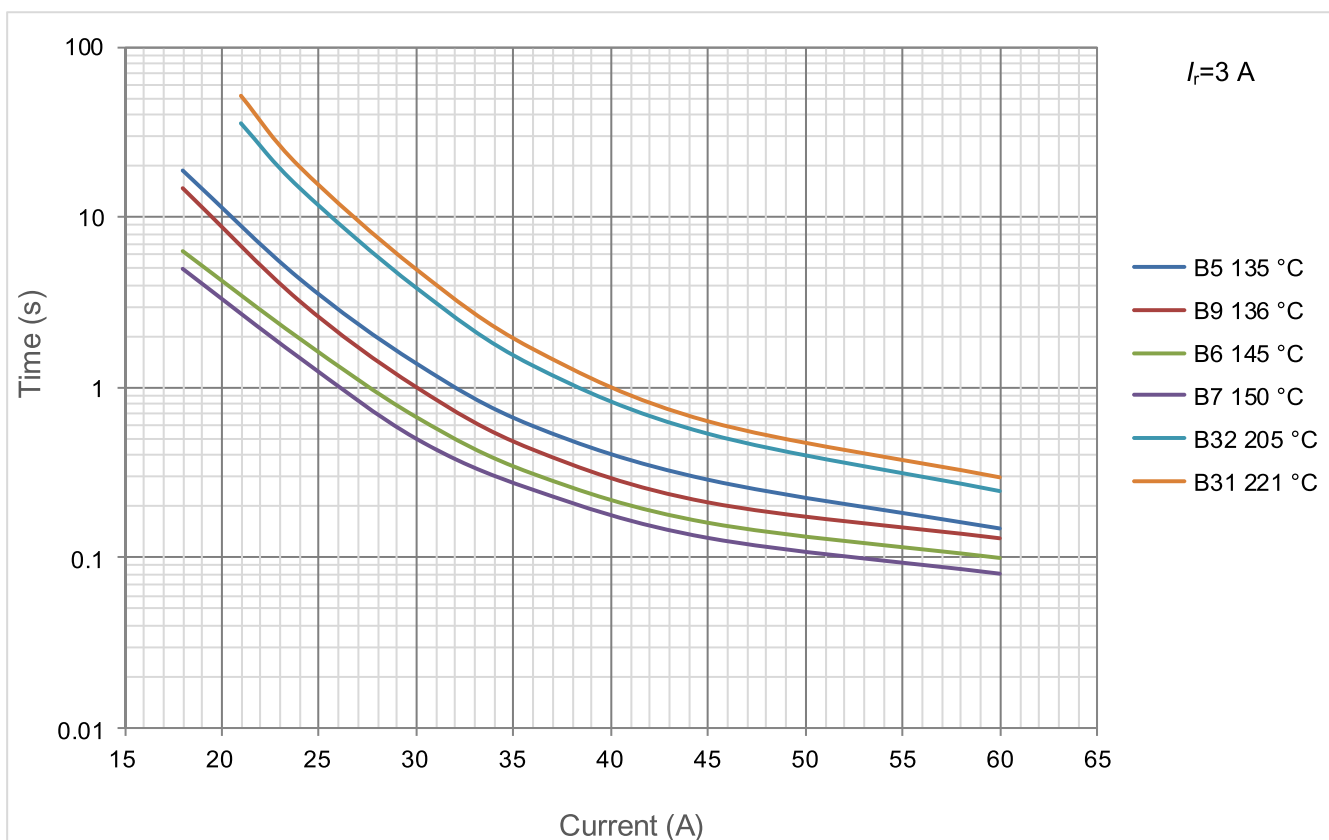
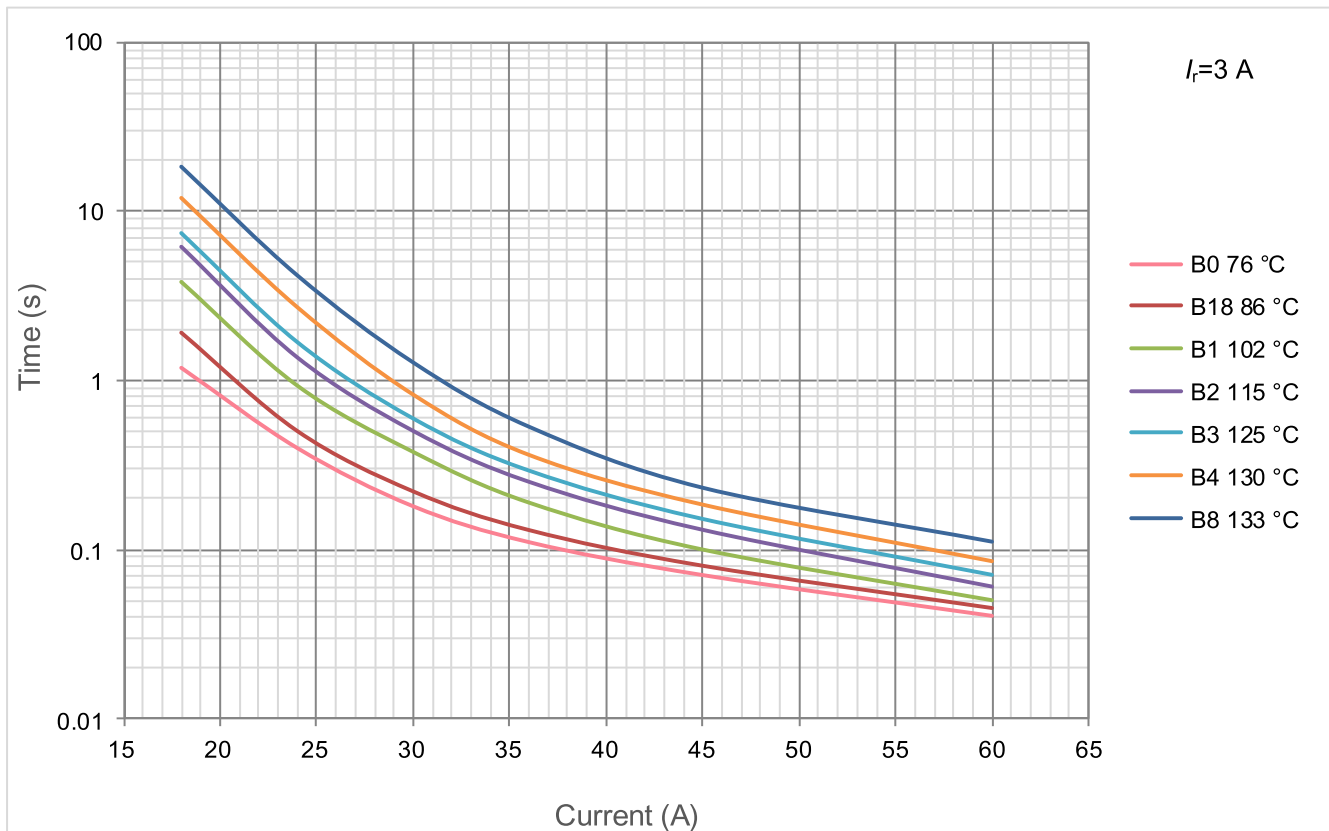
H Series

Current & Time curve for H series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



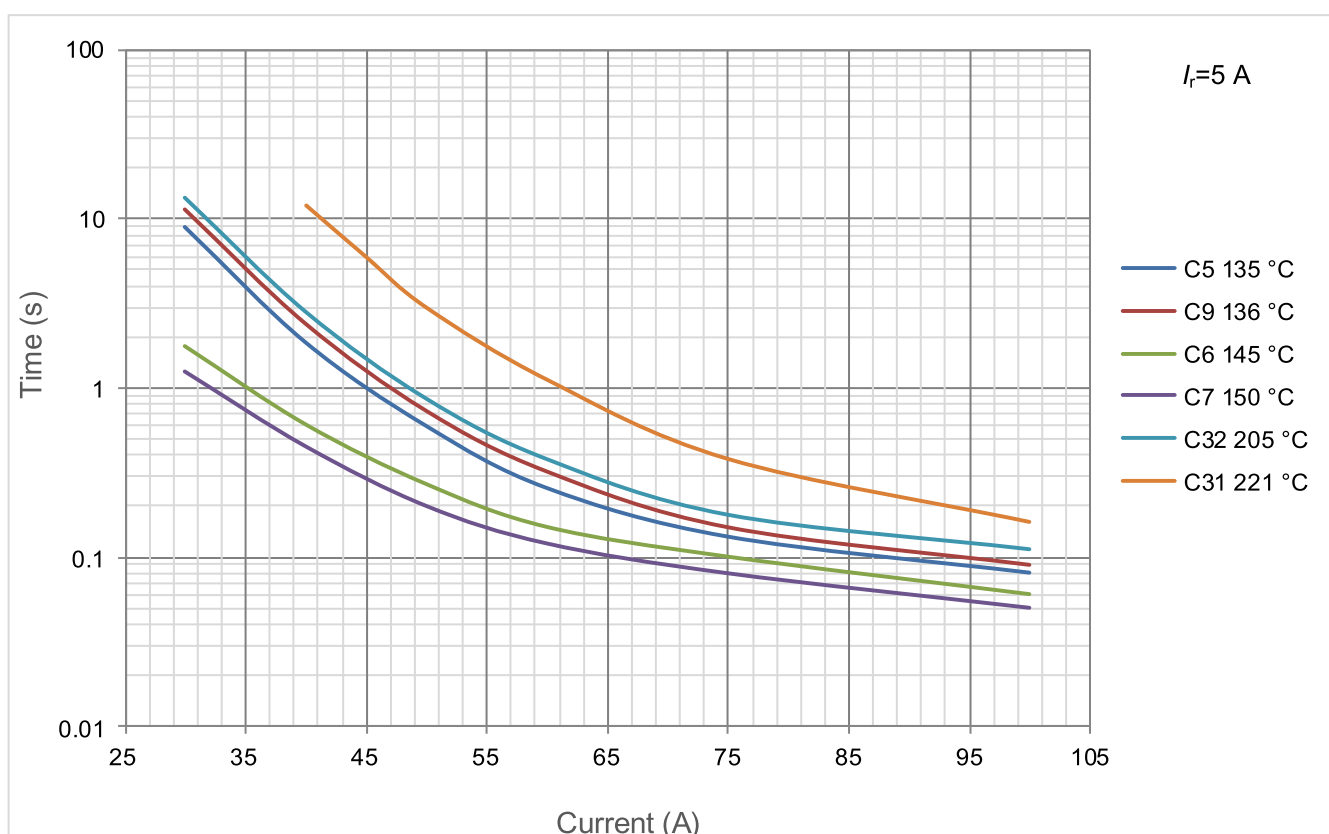
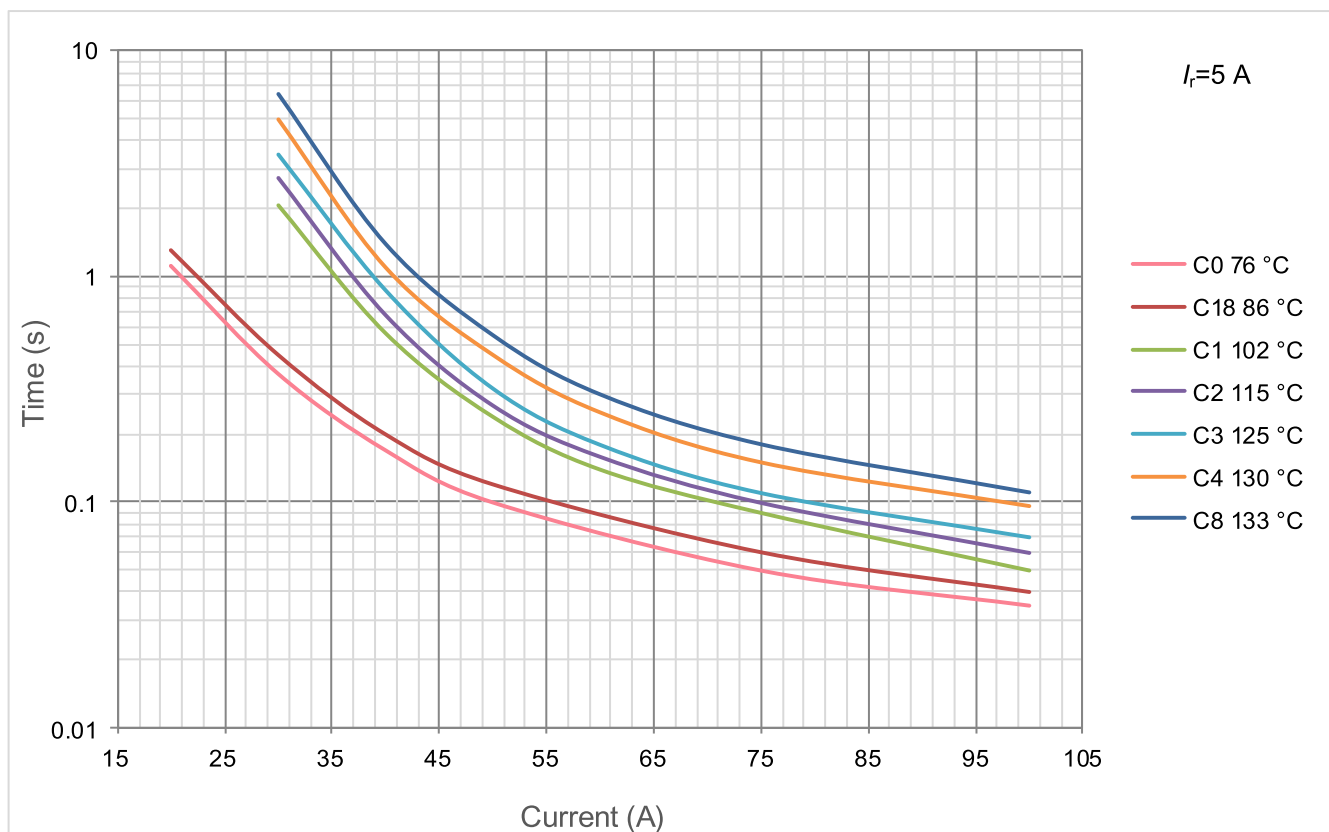
B Series

Current & Time curve for B series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



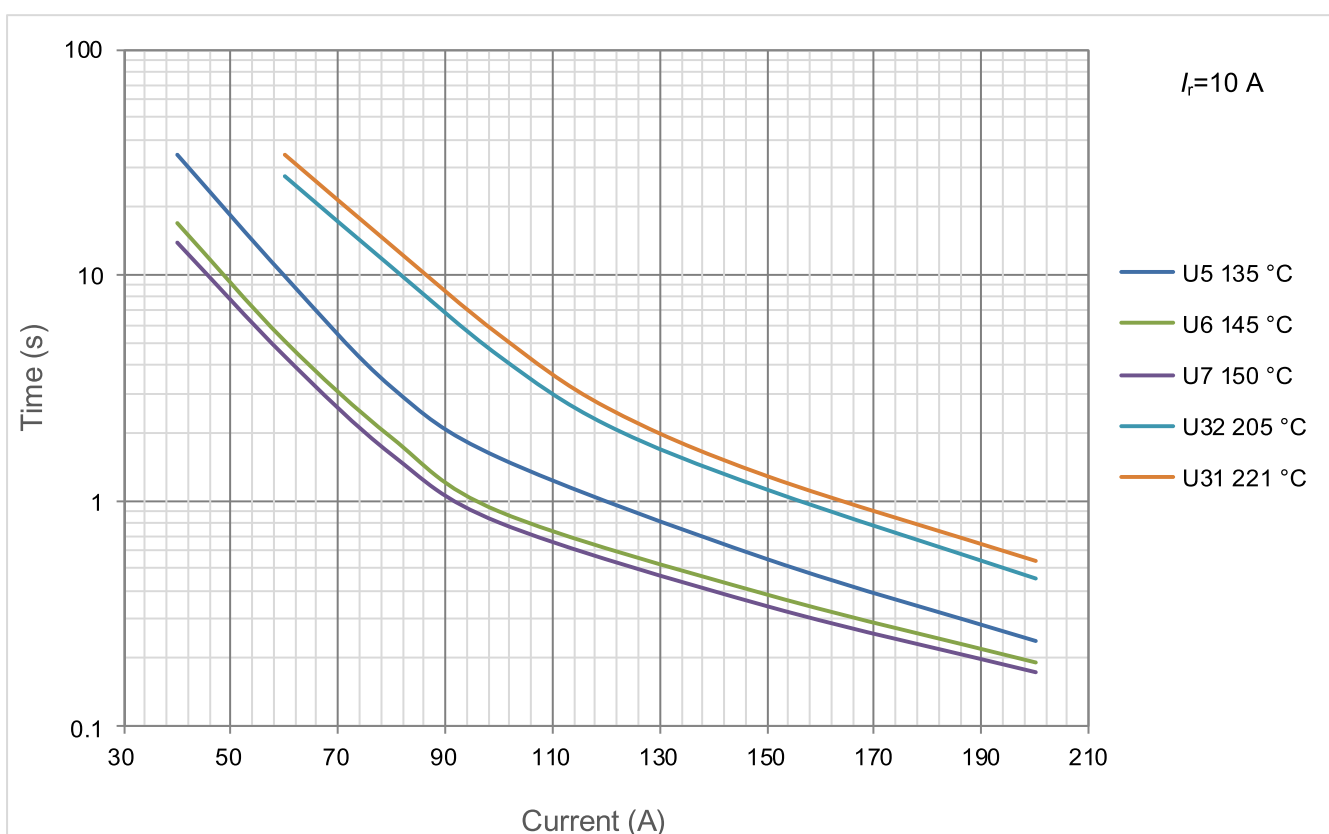
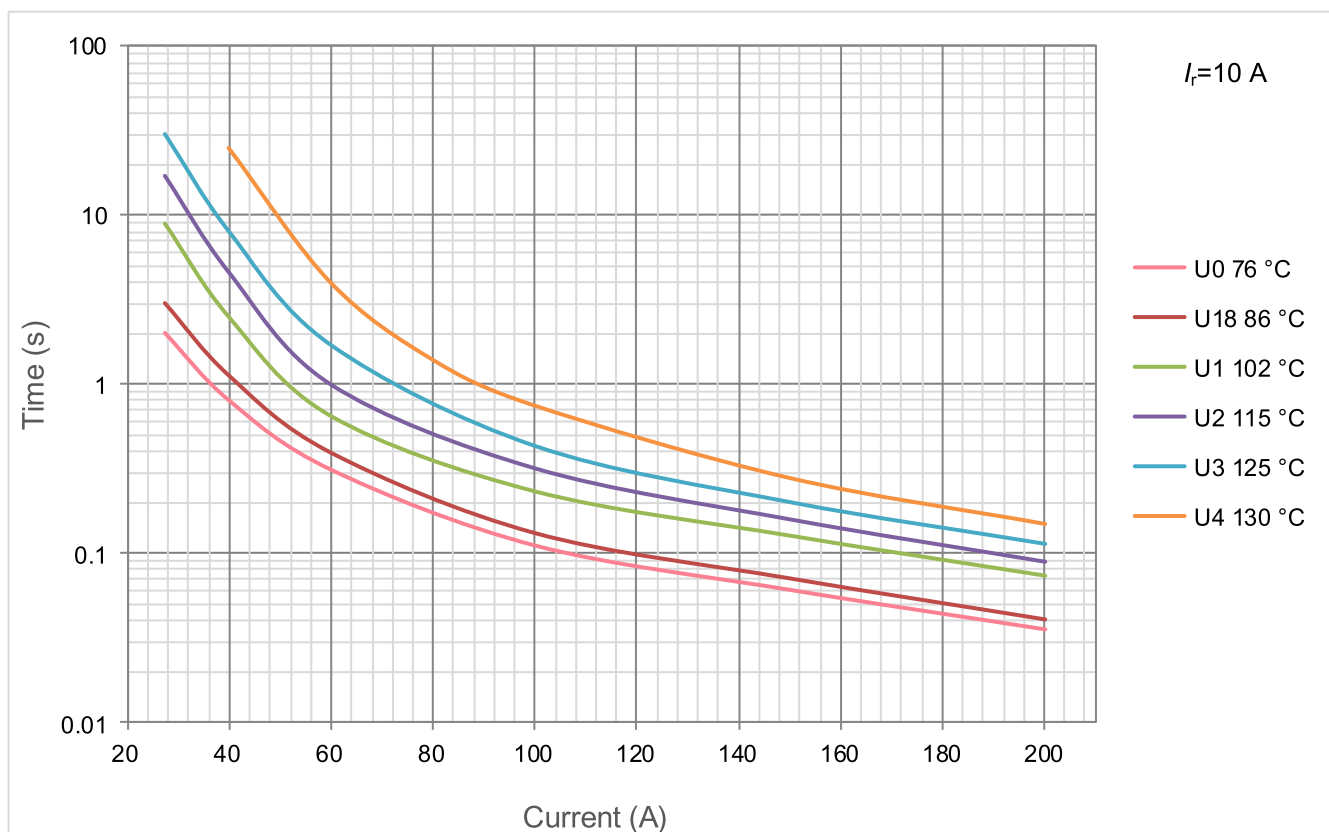
C Series

Current & Time curve for C series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



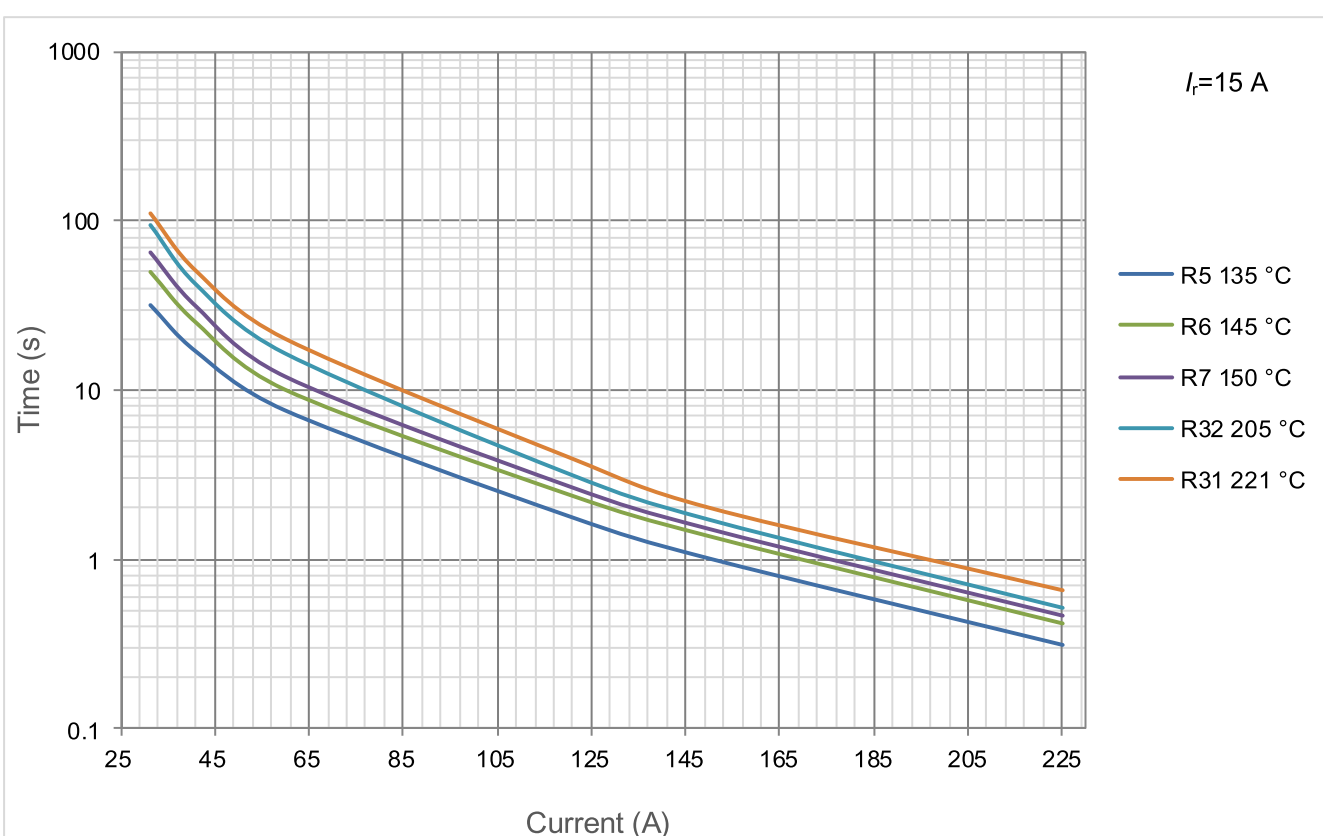
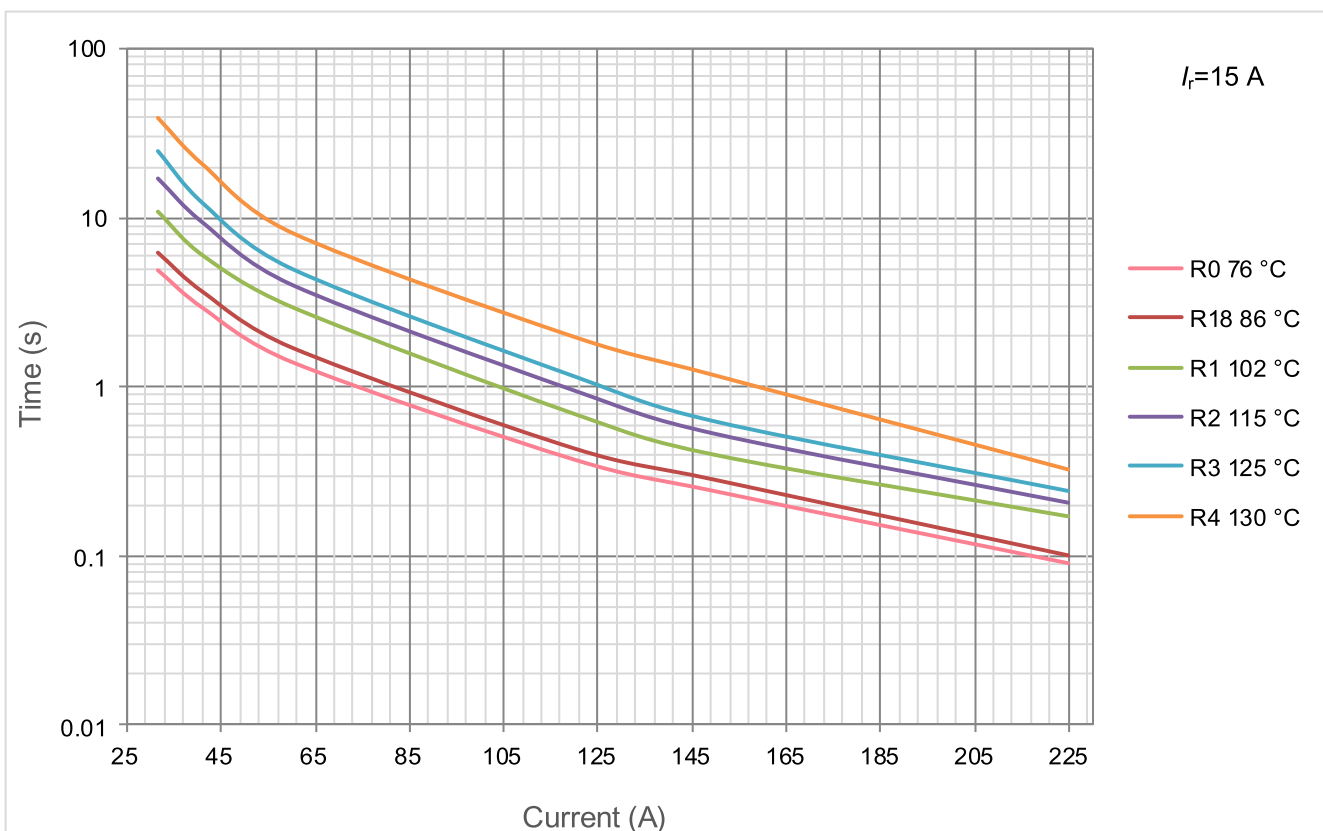
U Series

Current & Time curve for U series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



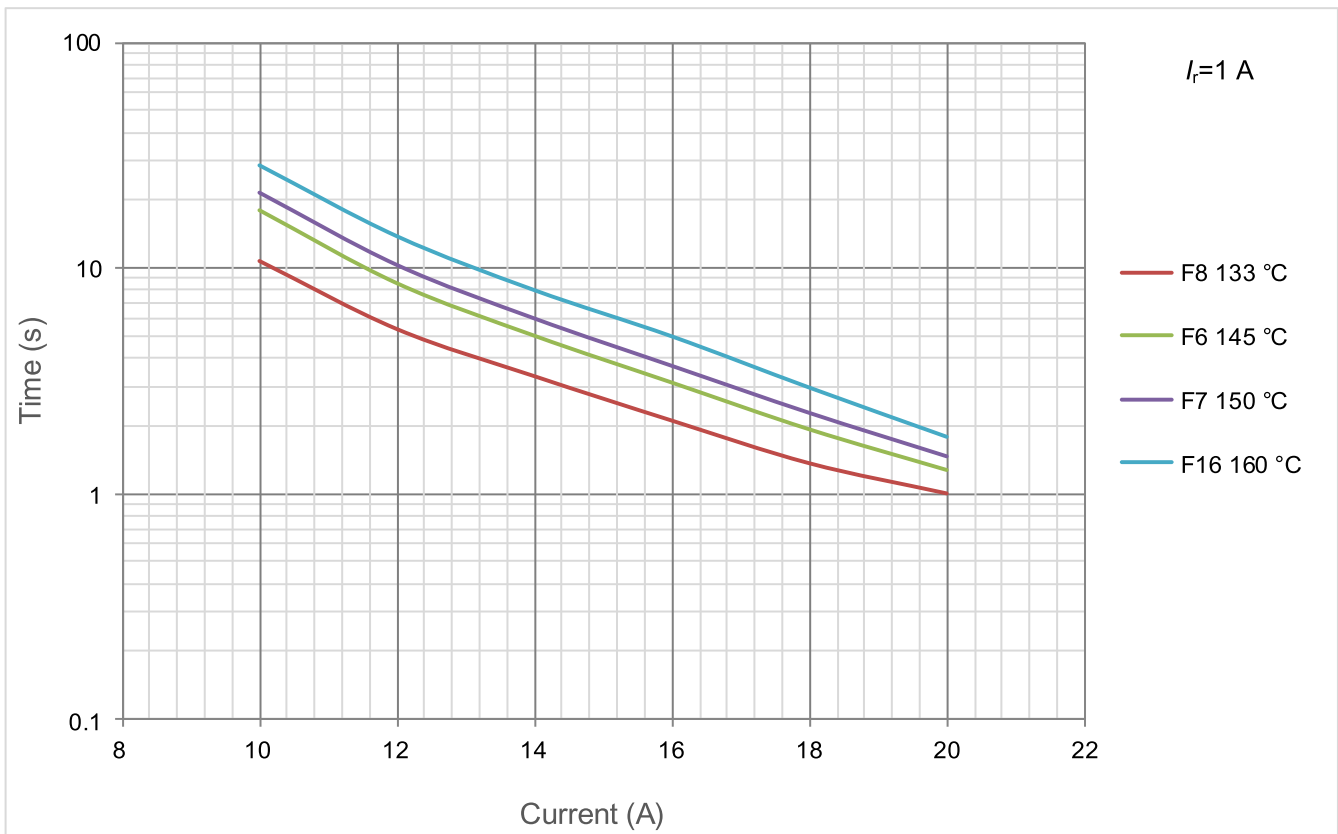
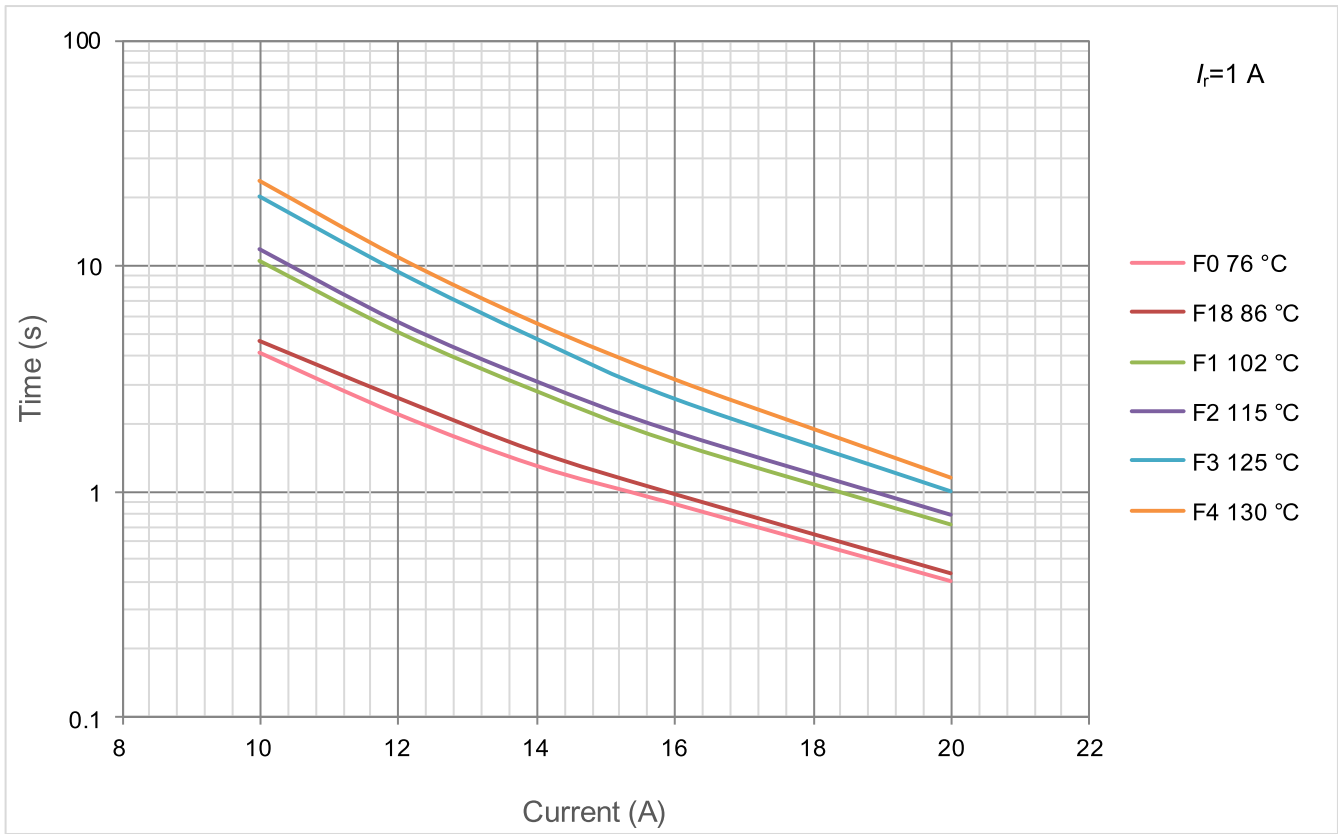
R Series

Current & Time curve for R series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



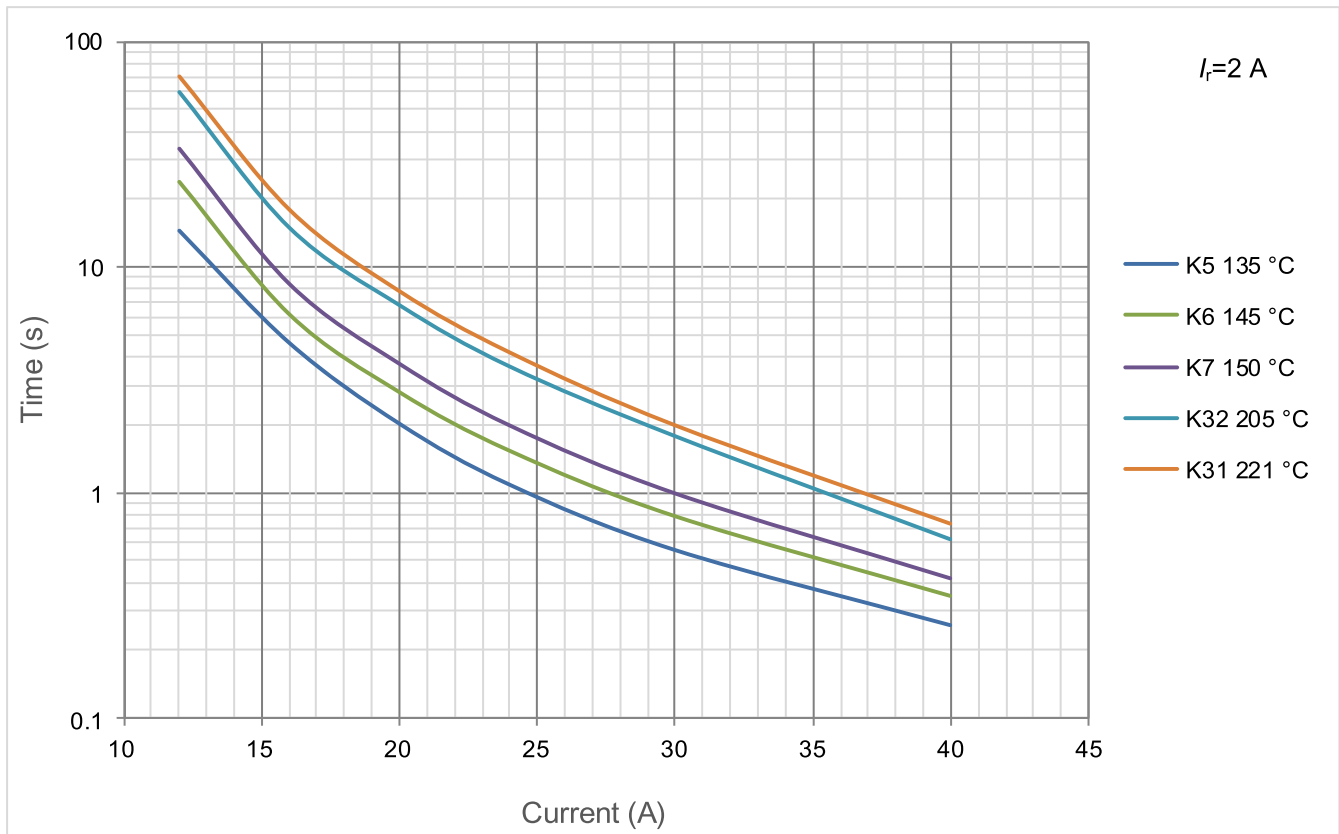
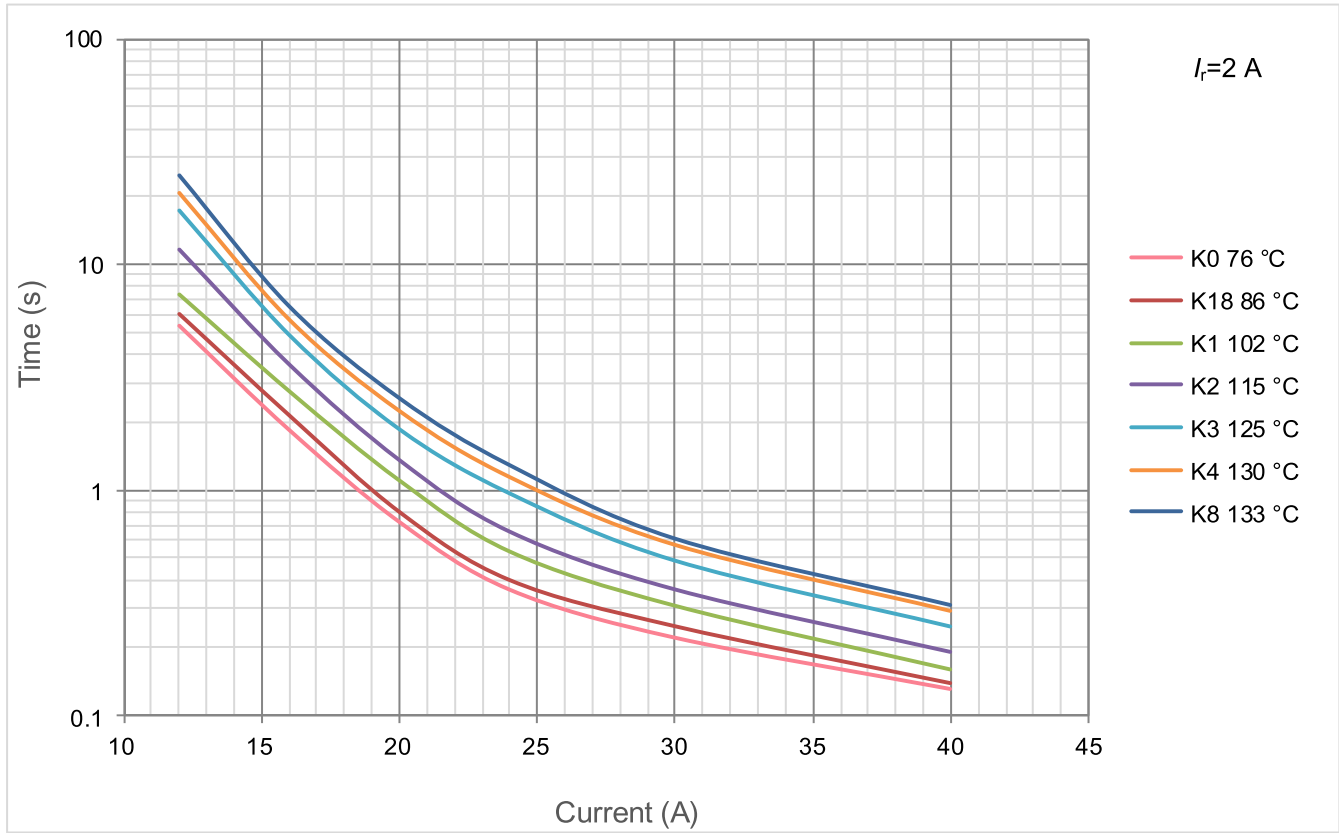
F Series

Current & Time curve for F series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



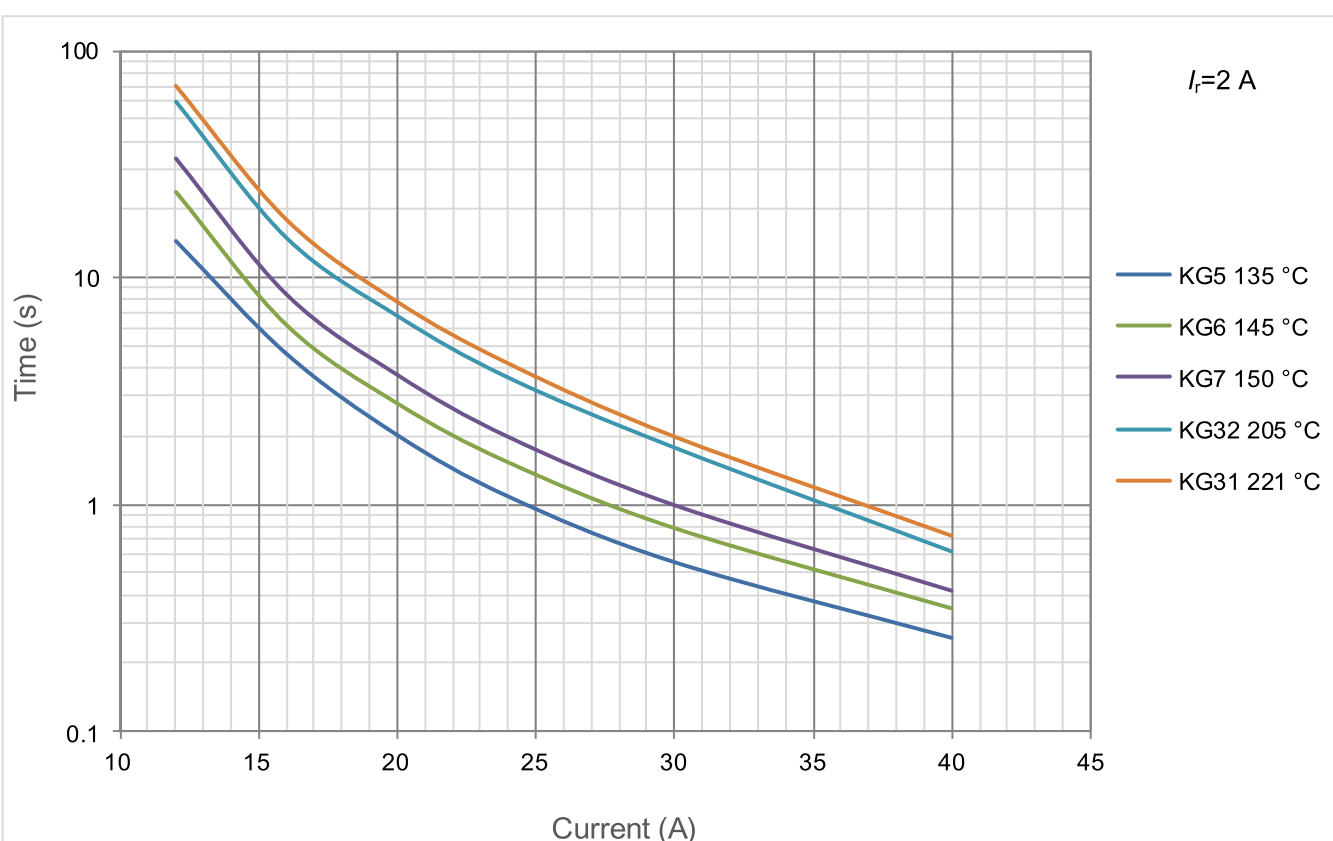
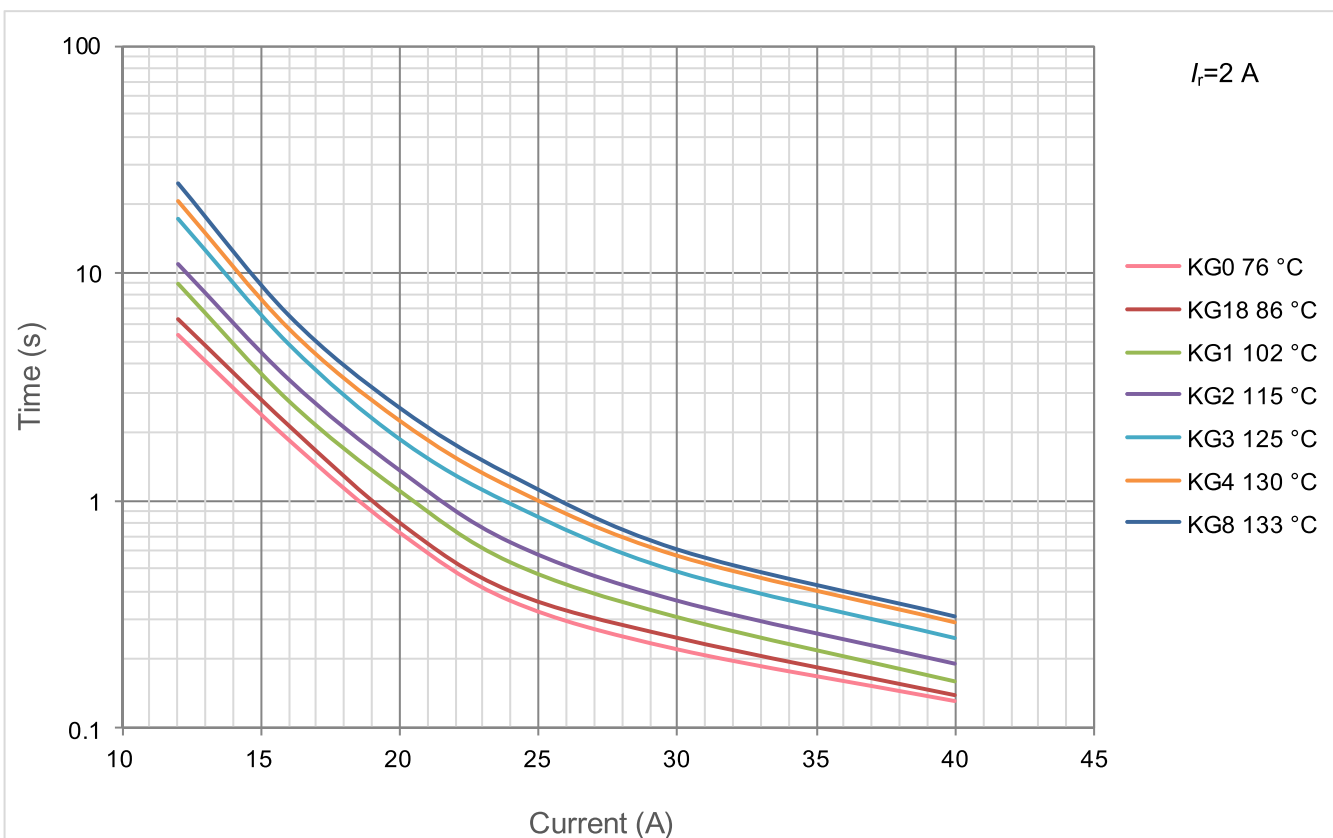
K Series

Current & Time curve for K series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



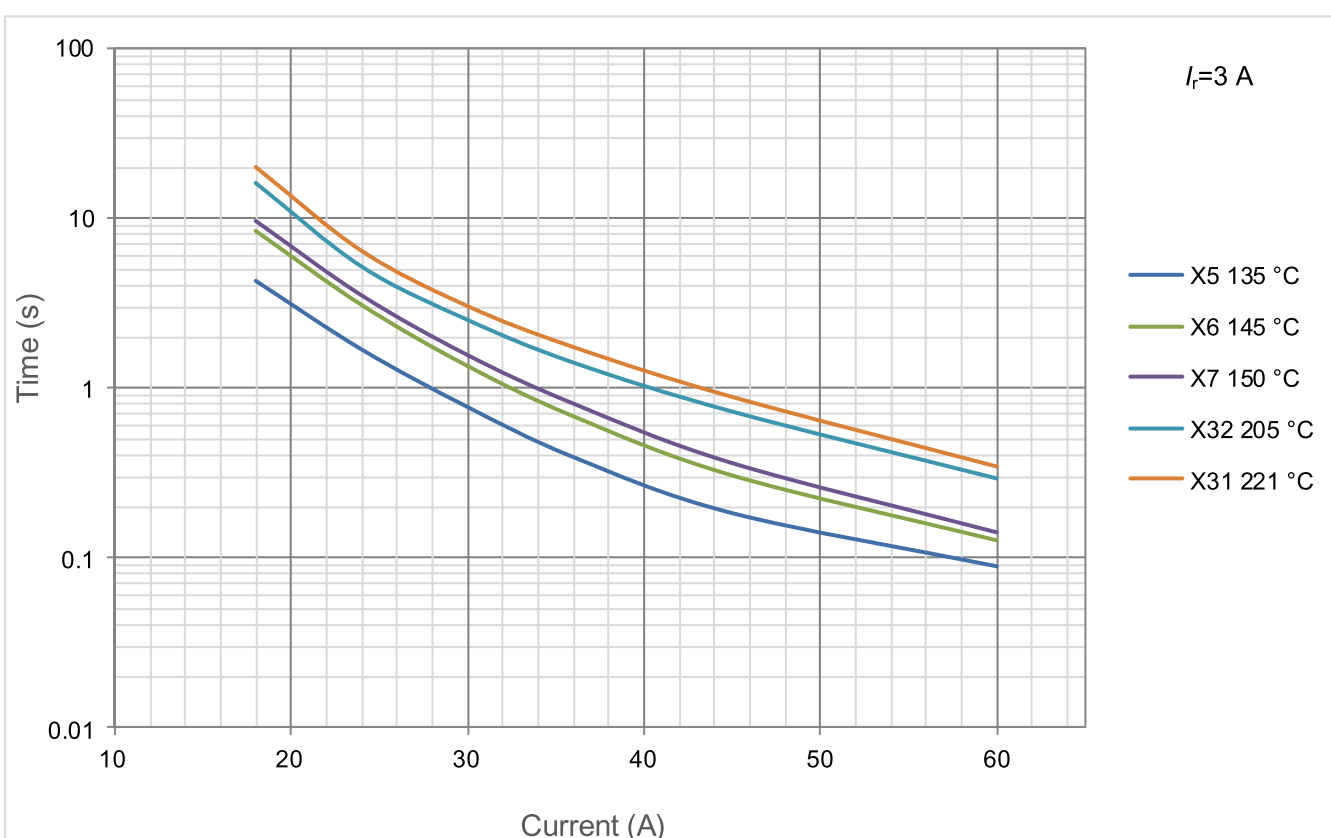
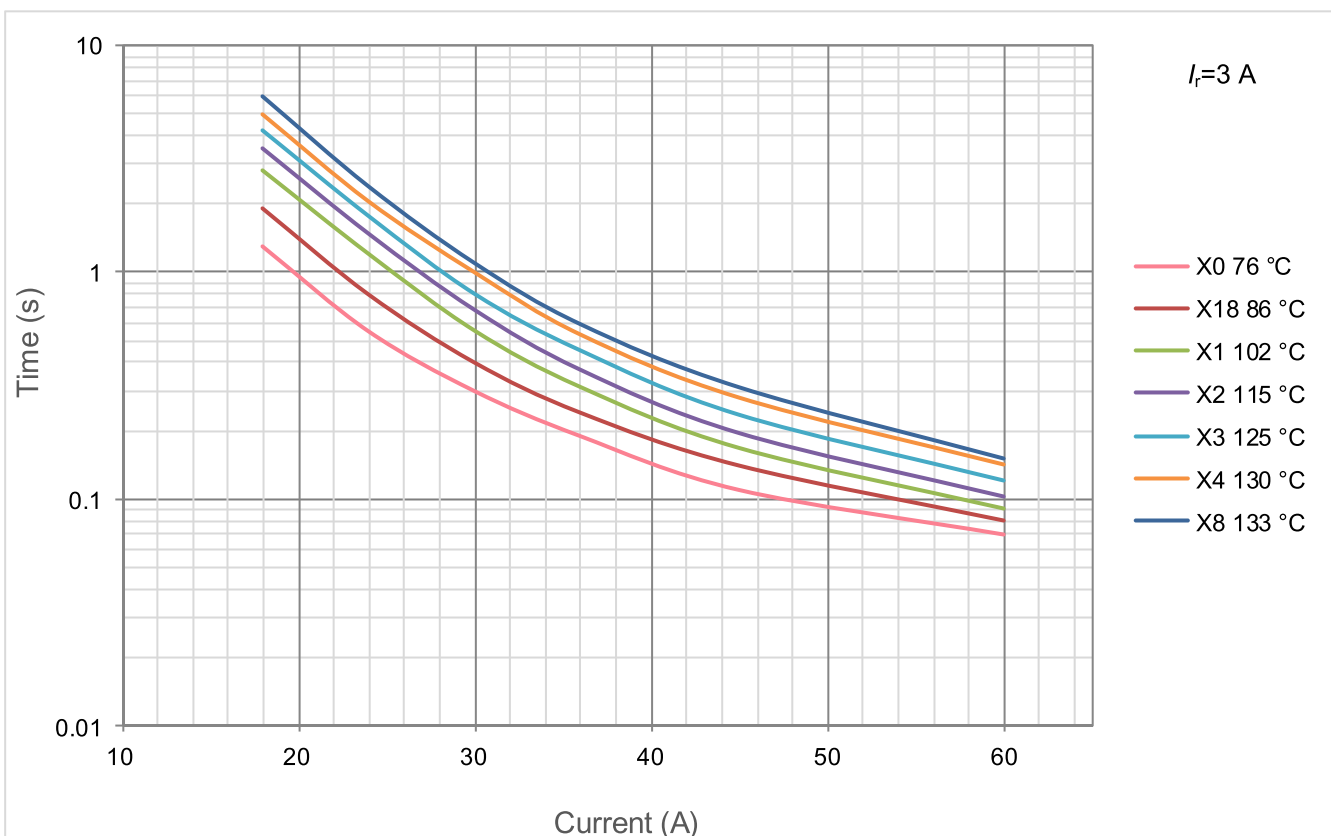
KG Series

Current & Time curve for KG series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



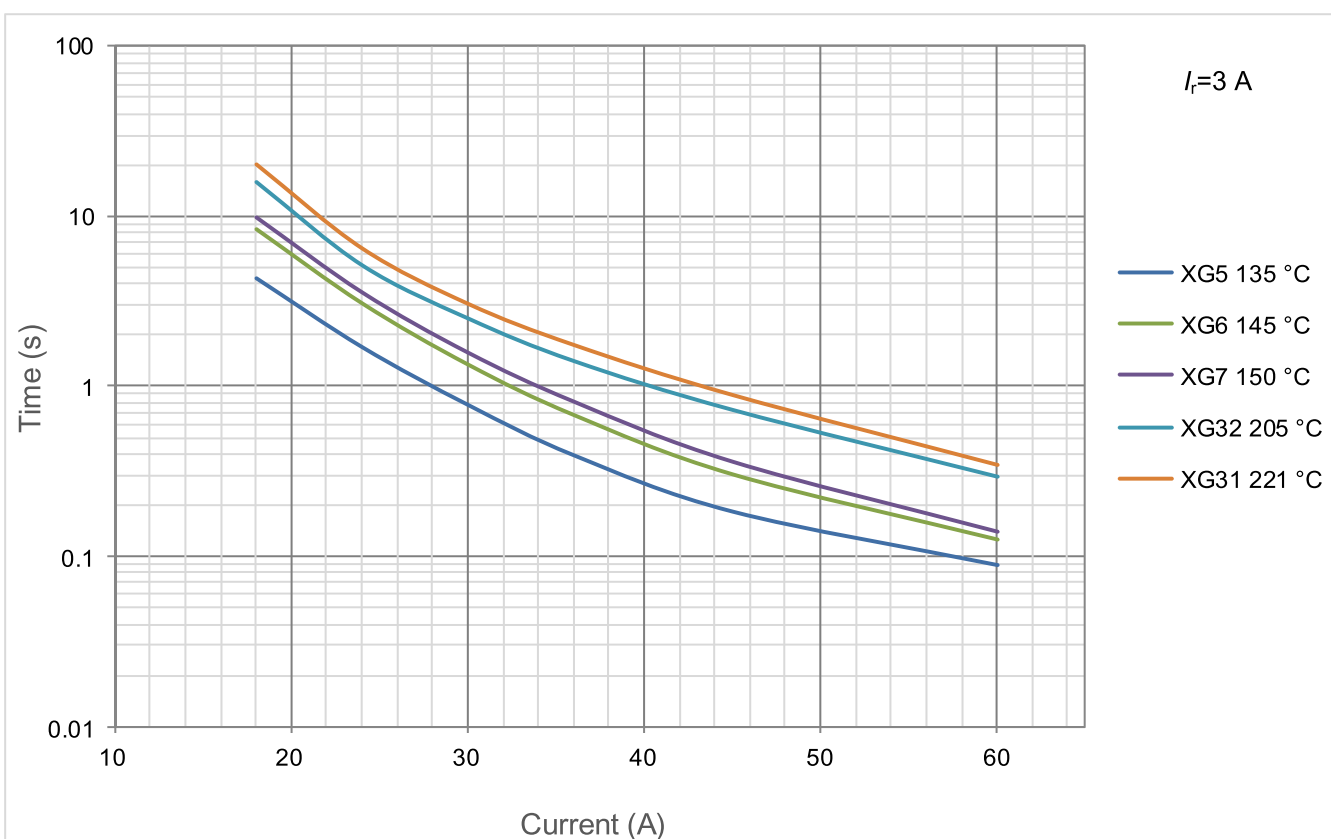
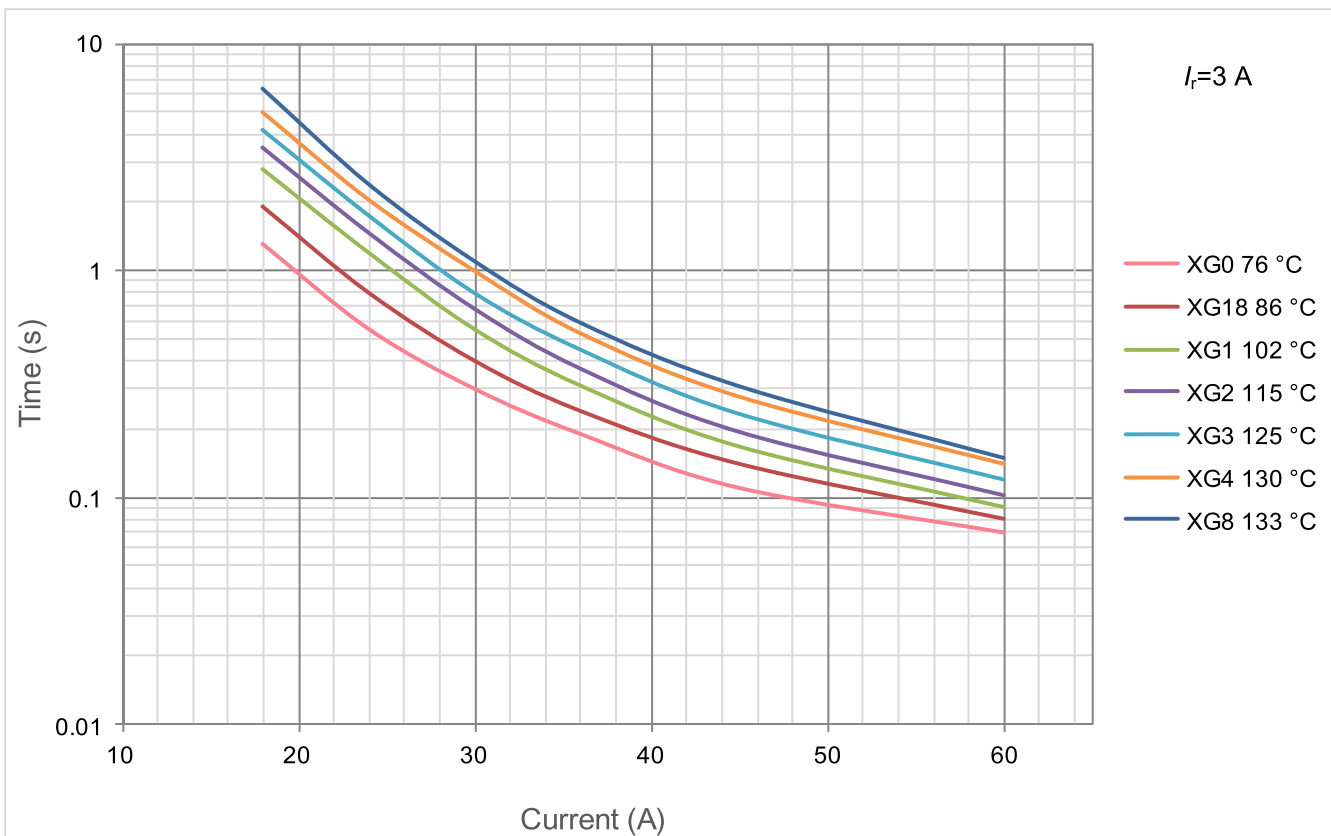
X Series

Current & Time curve for X series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



XG Series

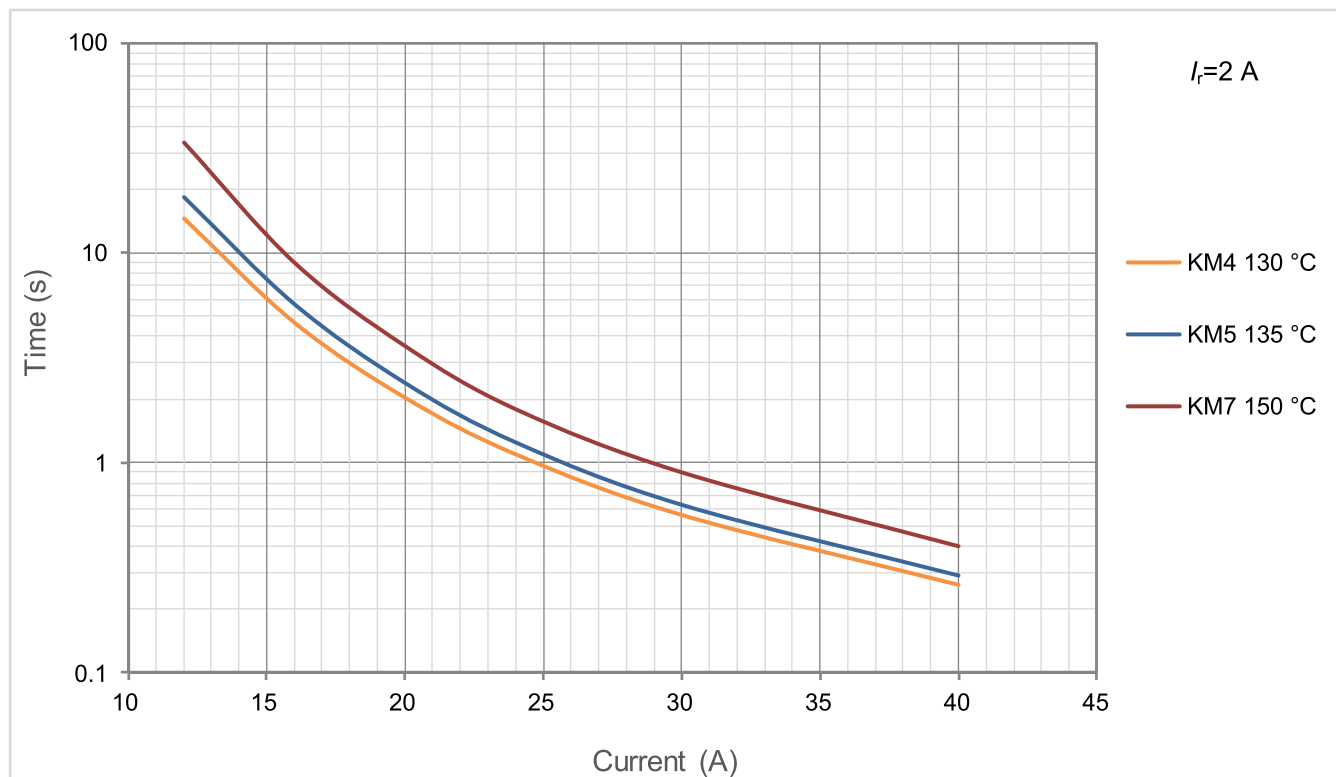
Current & Time curve for XG series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



Current Time Curve

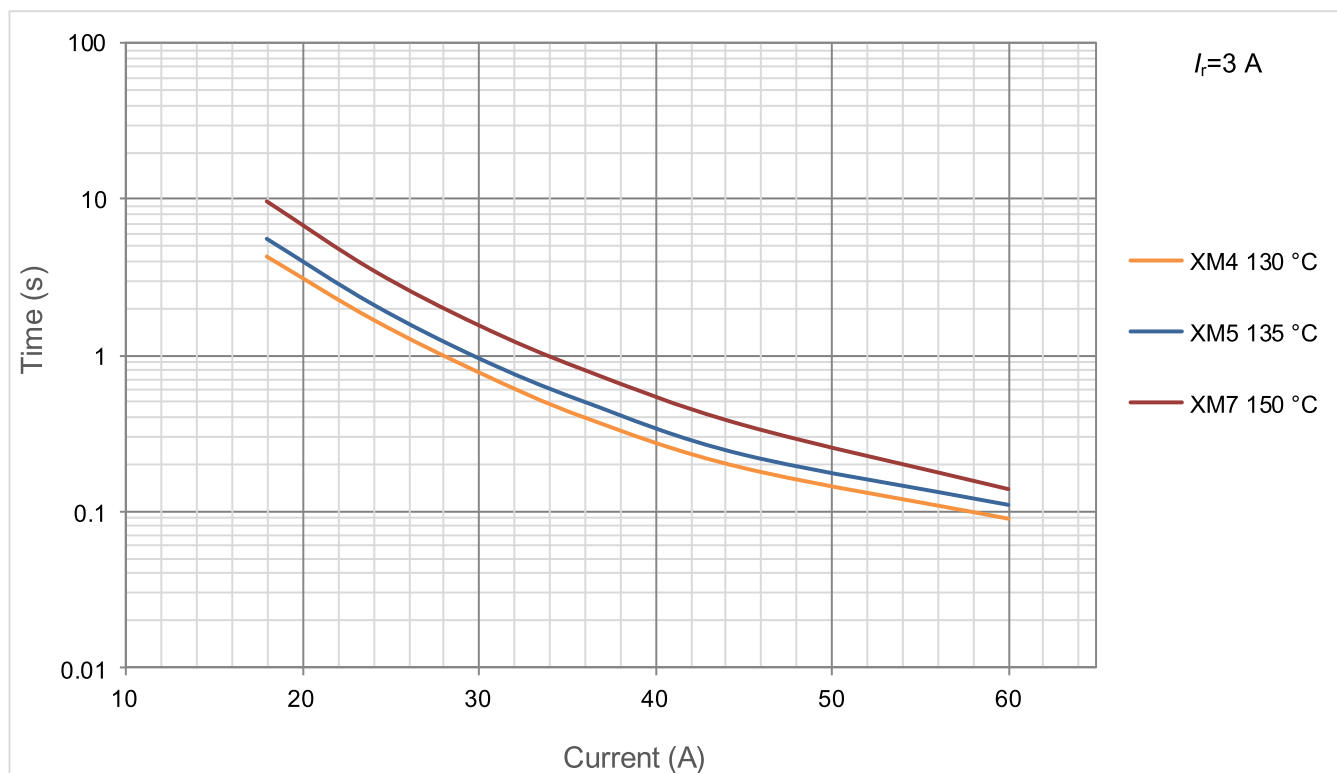
KM Series

Current & Time curve for KM series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



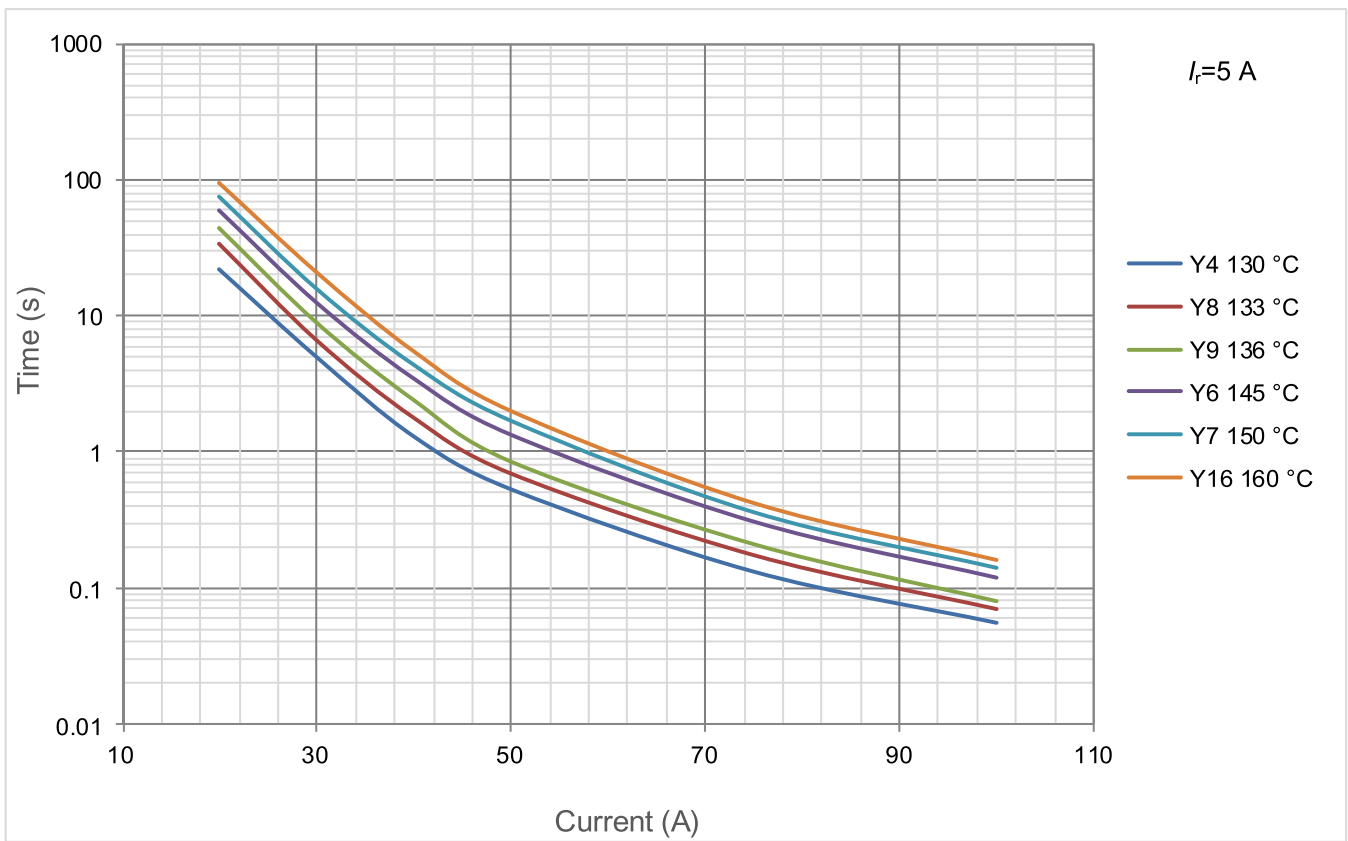
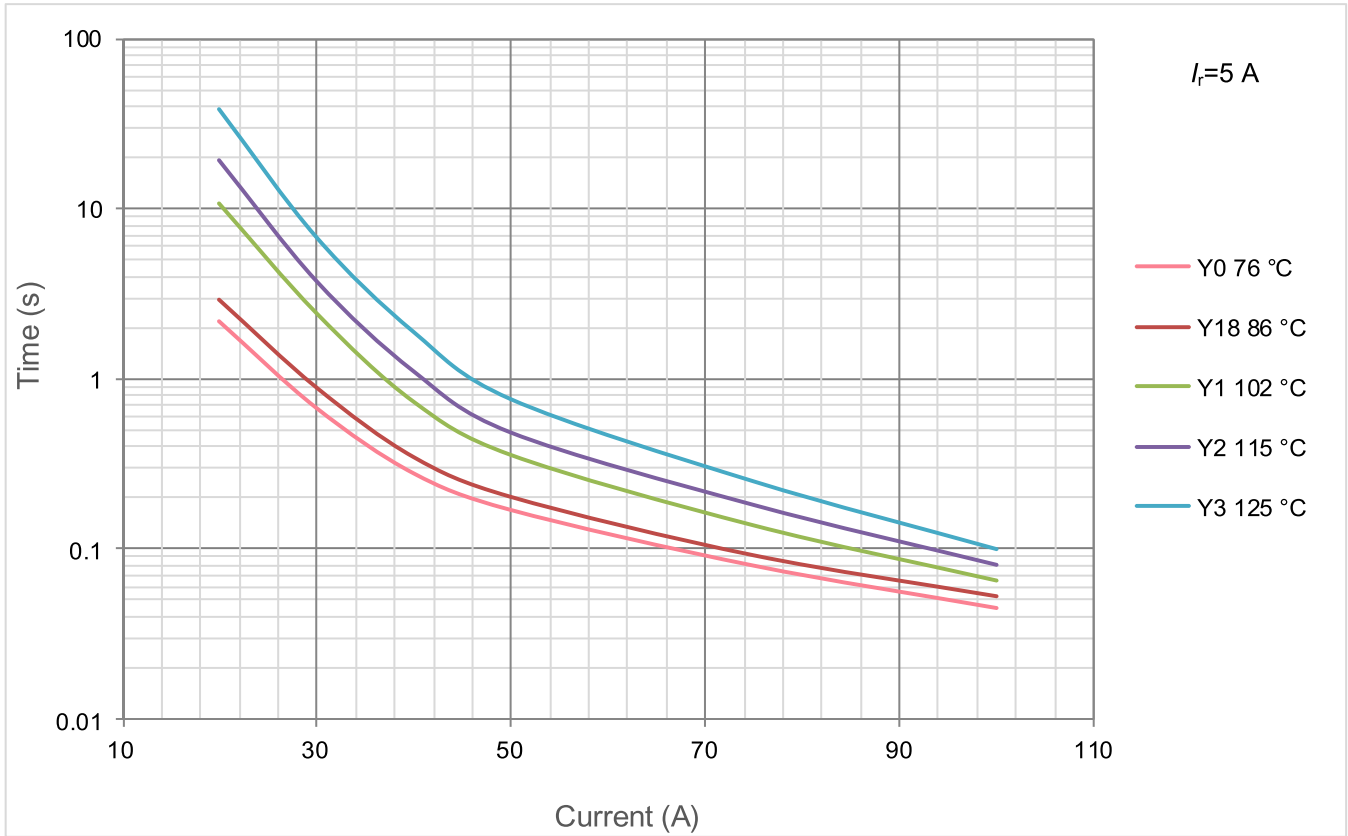
XM Series

This is an illustrated curve for the model XM series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Y Series

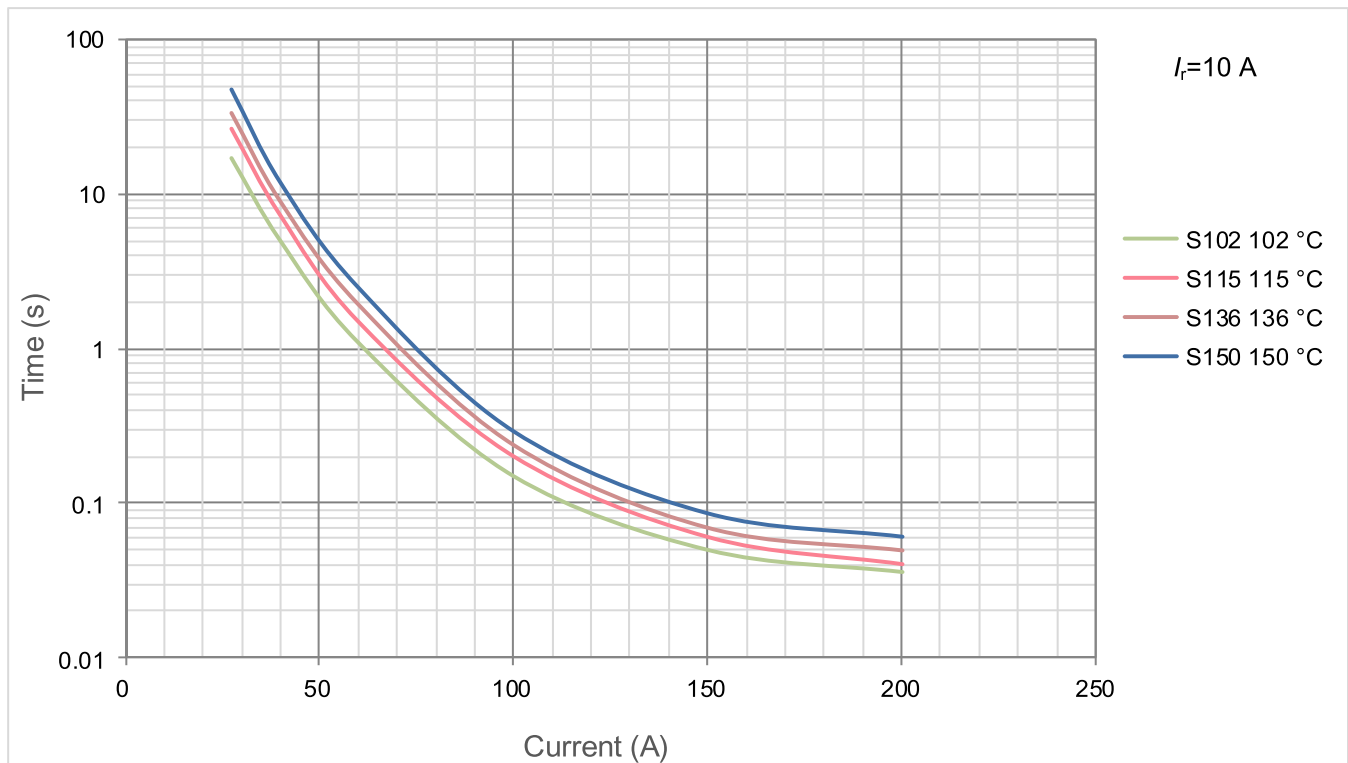
Current & Time curve for Y series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



Current Time Curve

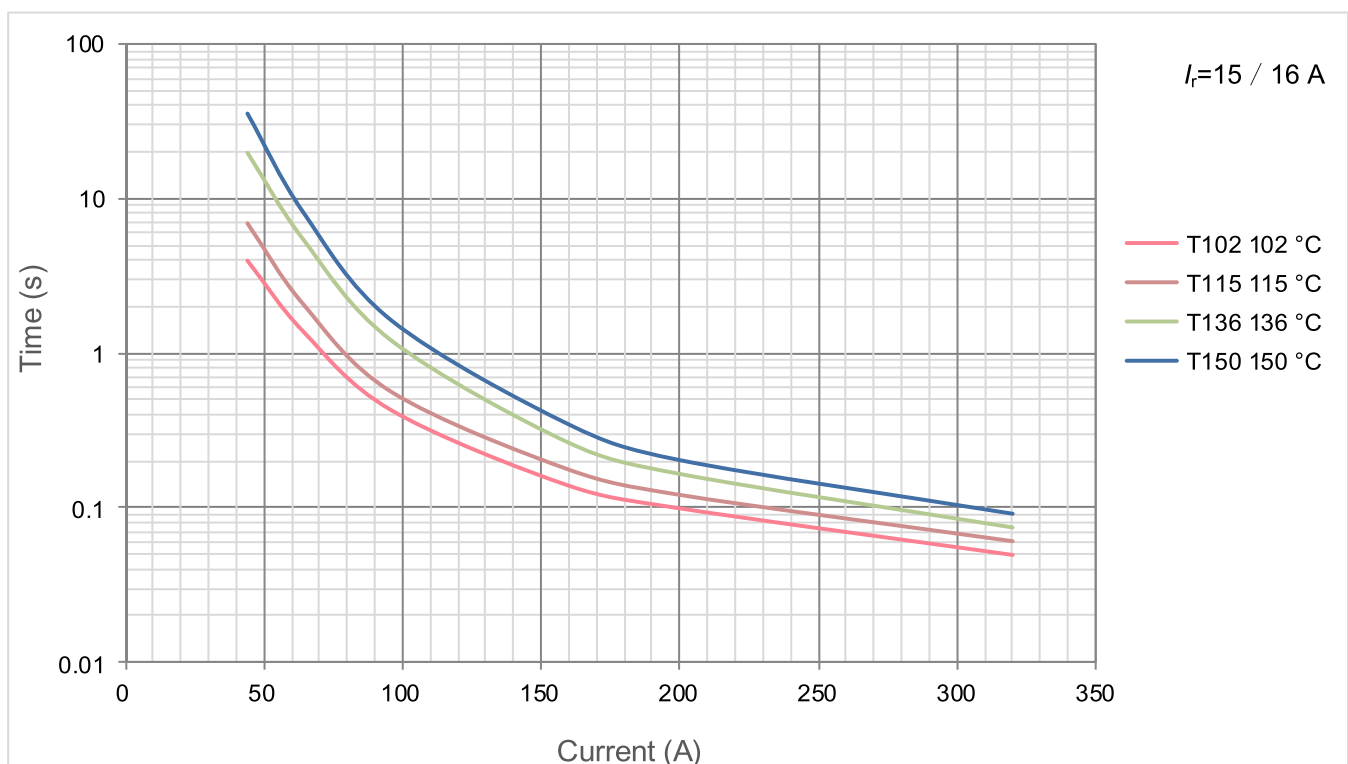
S Series

Current & Time curve for S series, showing function time at multi-times rated current at room temperature 25 °C. (This curve is for reference only)



T Series

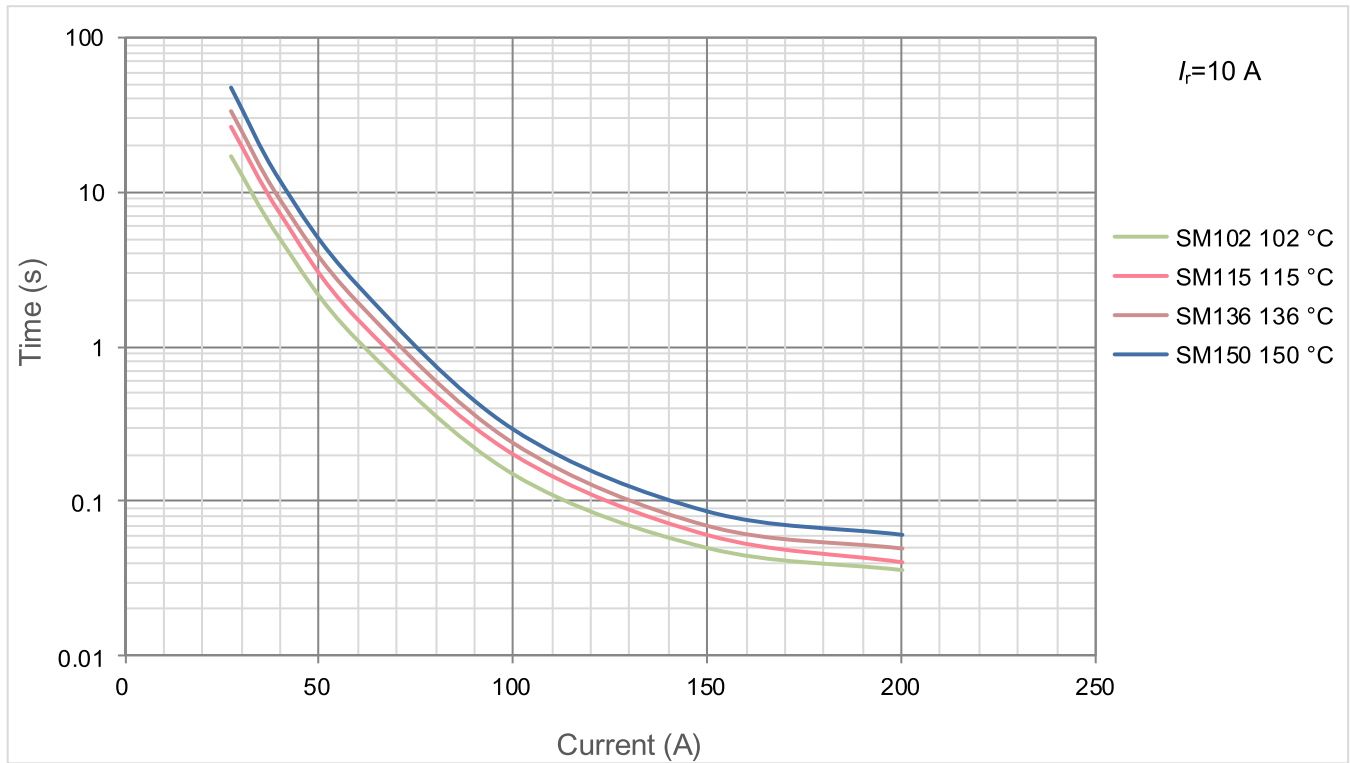
This is an illustrated curve for the model T series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Current Time Curve

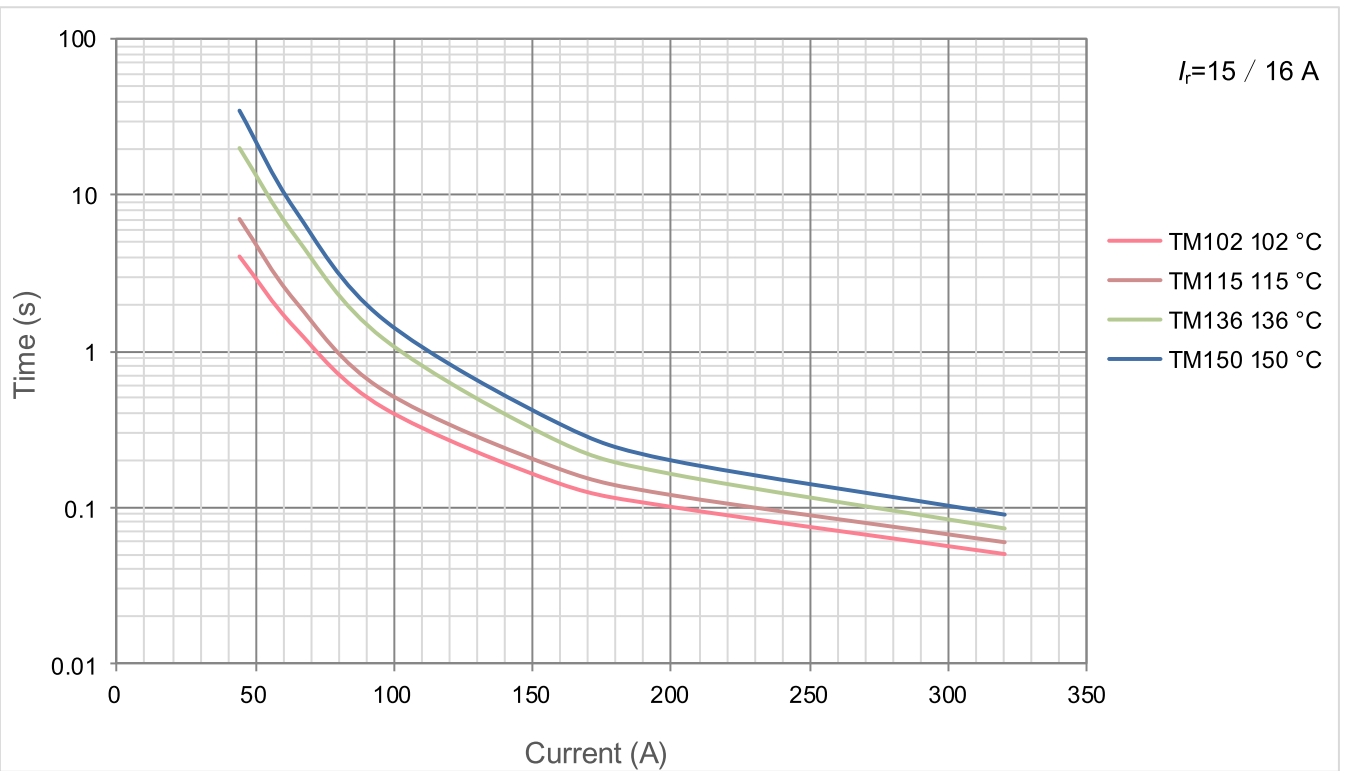
SM Series

This is an illustrated curve for the model SM series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



TM Series

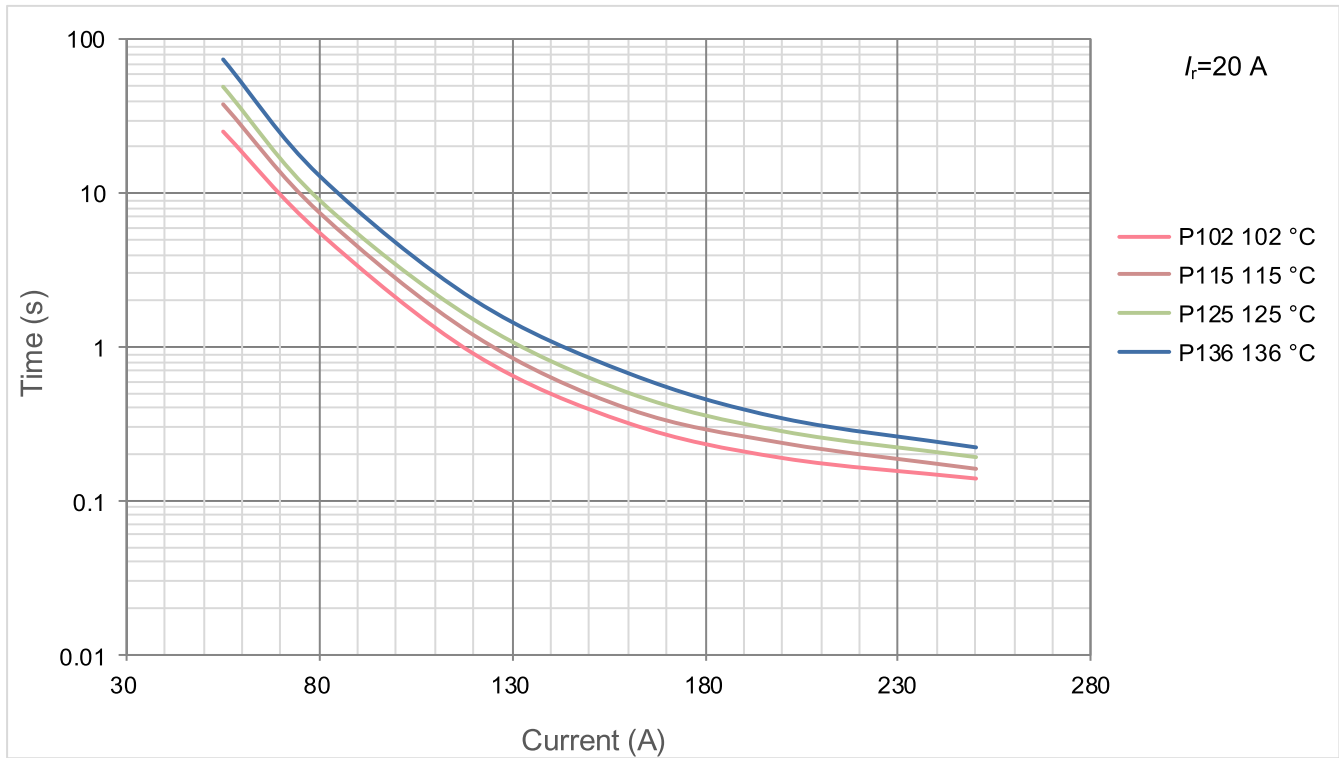
This is an illustrated curve for the model TM series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Current Time Curve

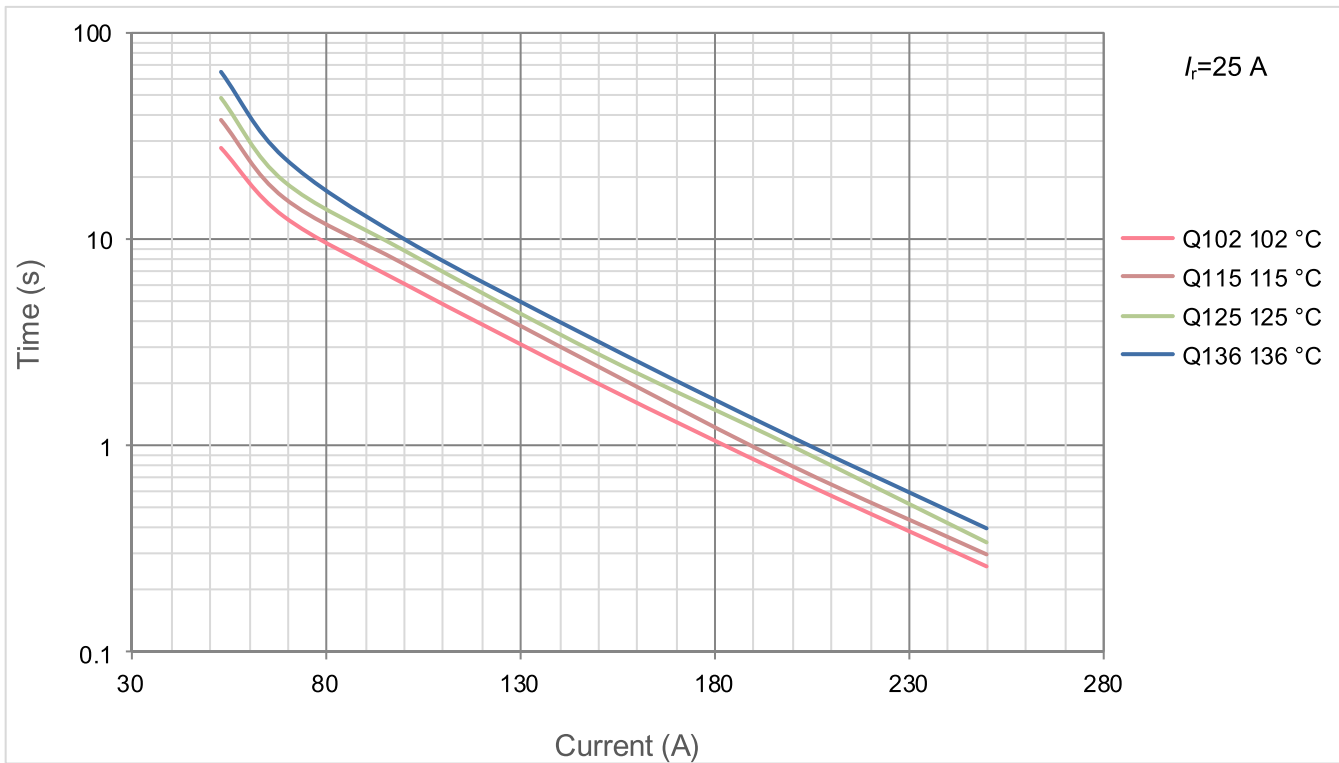
P Series

This is an illustrated curve for the model P series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Q Series

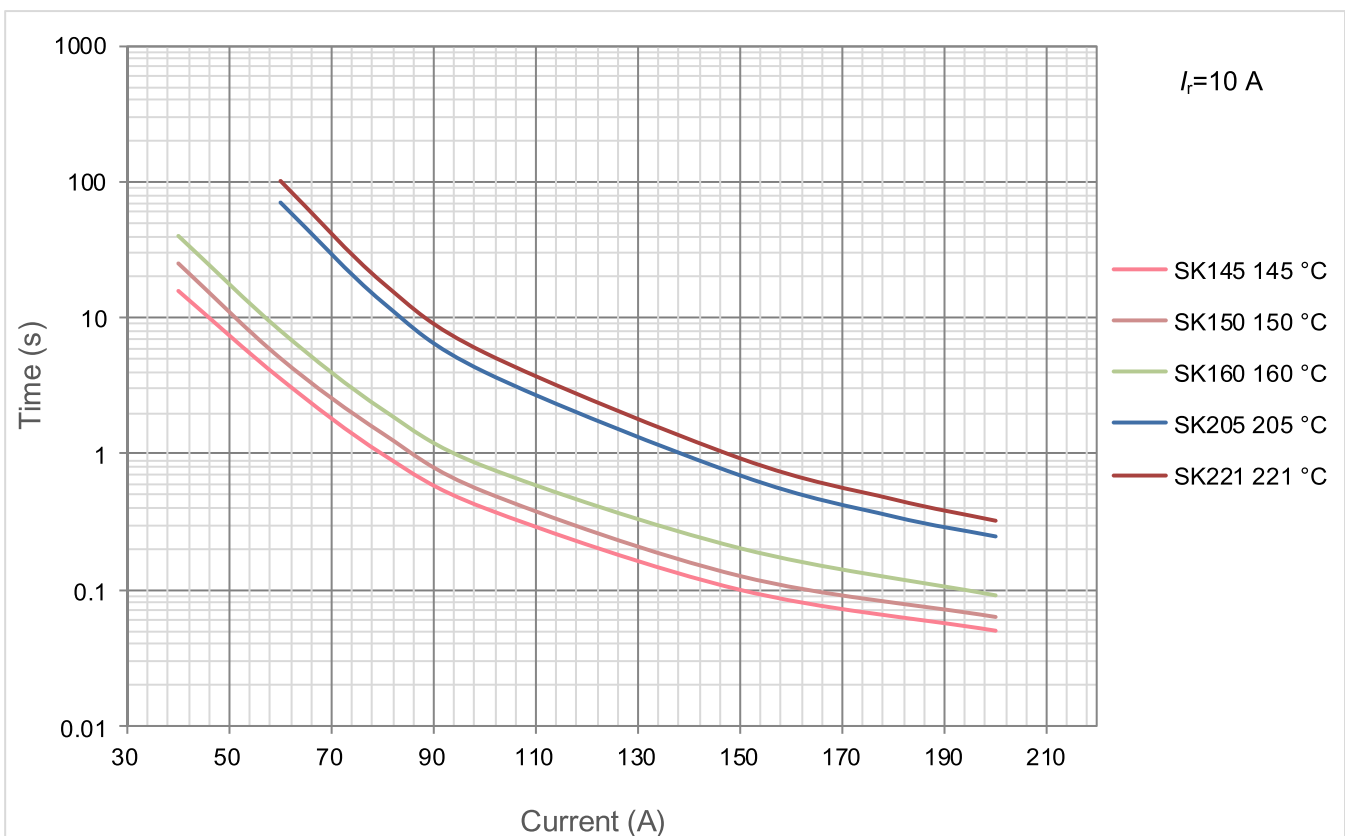
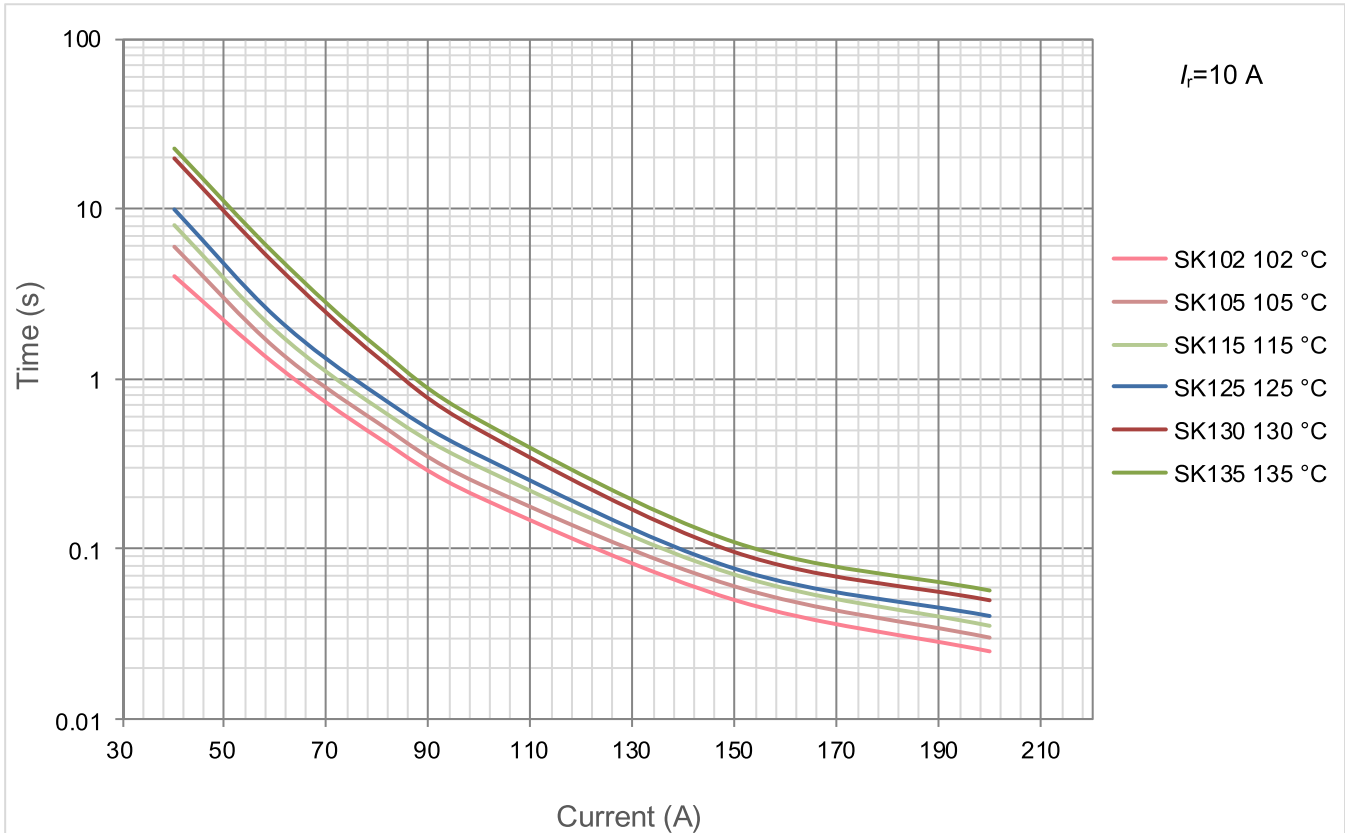
This is an illustrated curve for the model Q series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Current Time Curve

SK Series

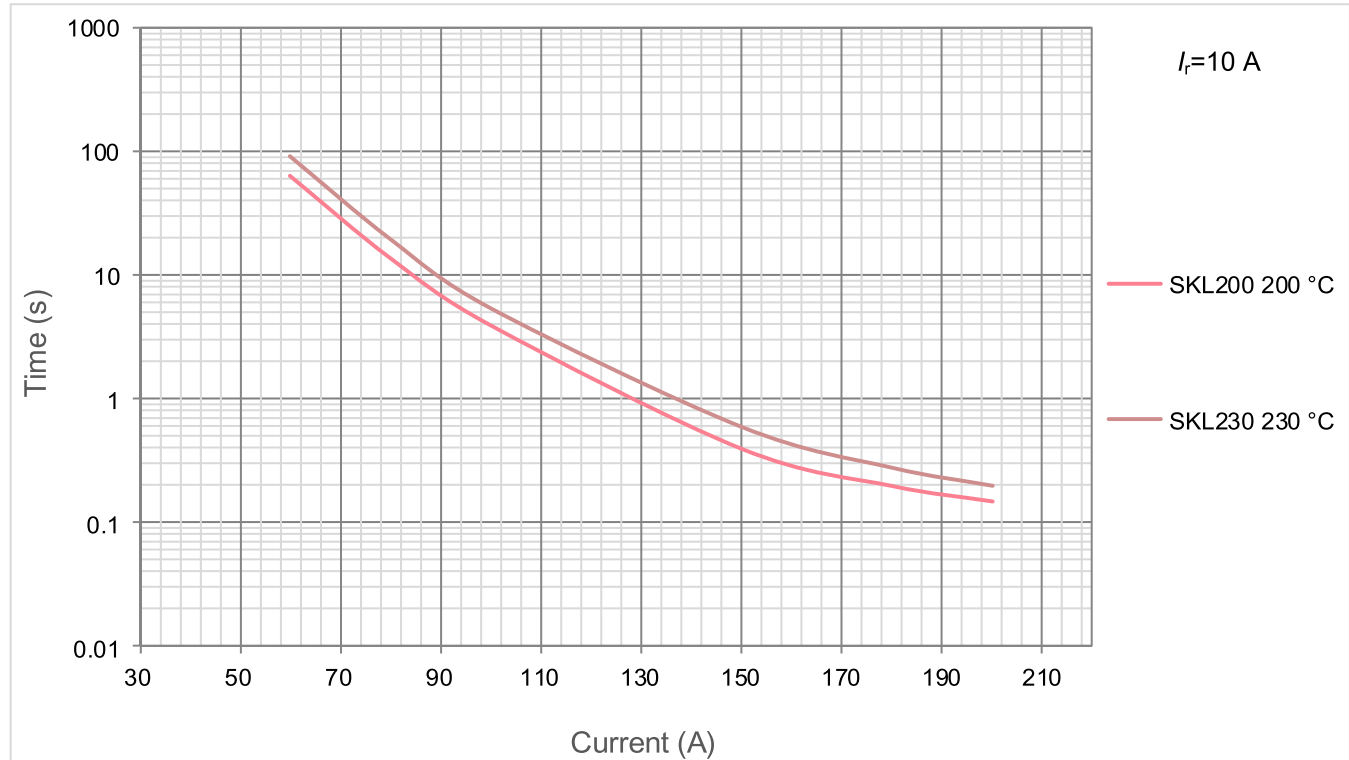
This is an illustrated curve for the model SK series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Current Time Curve

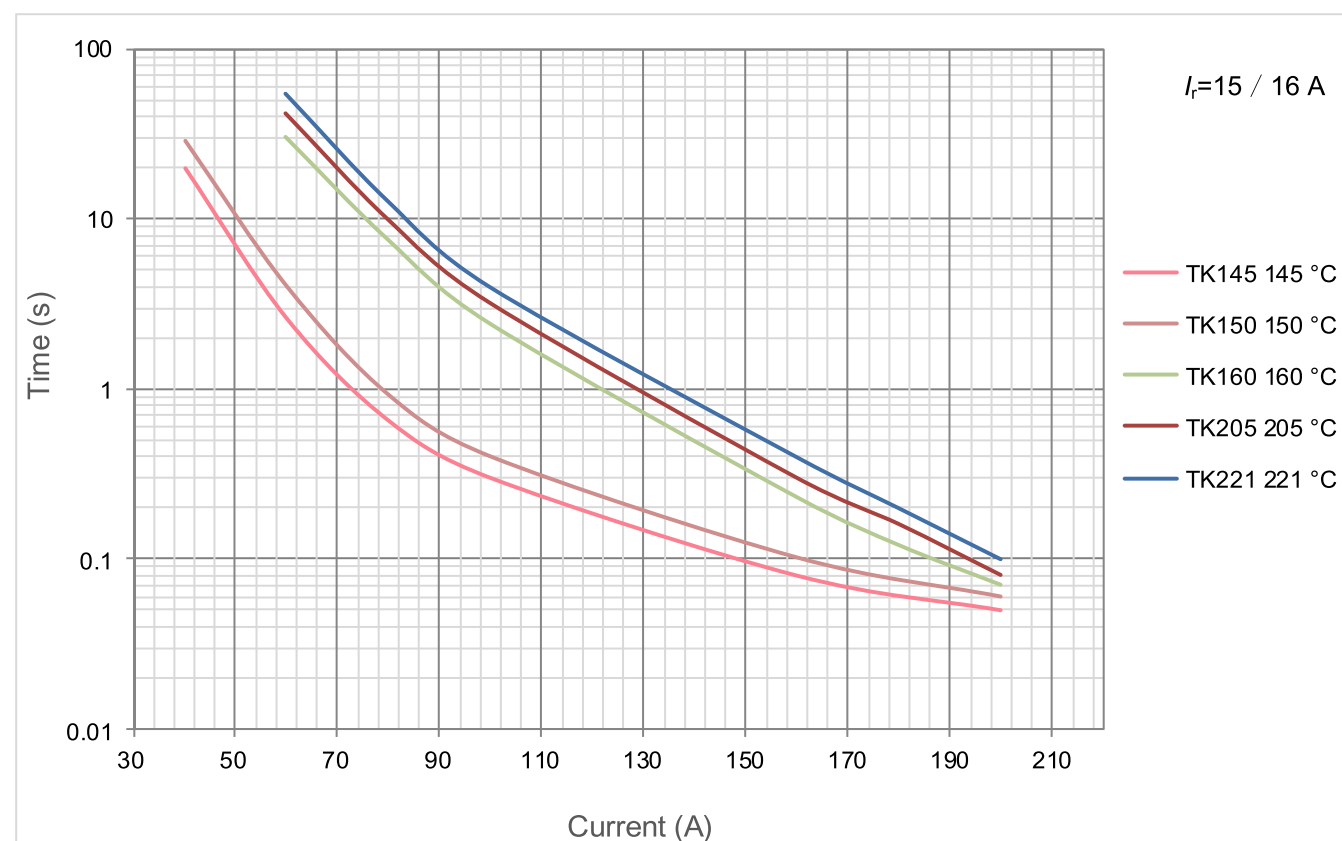
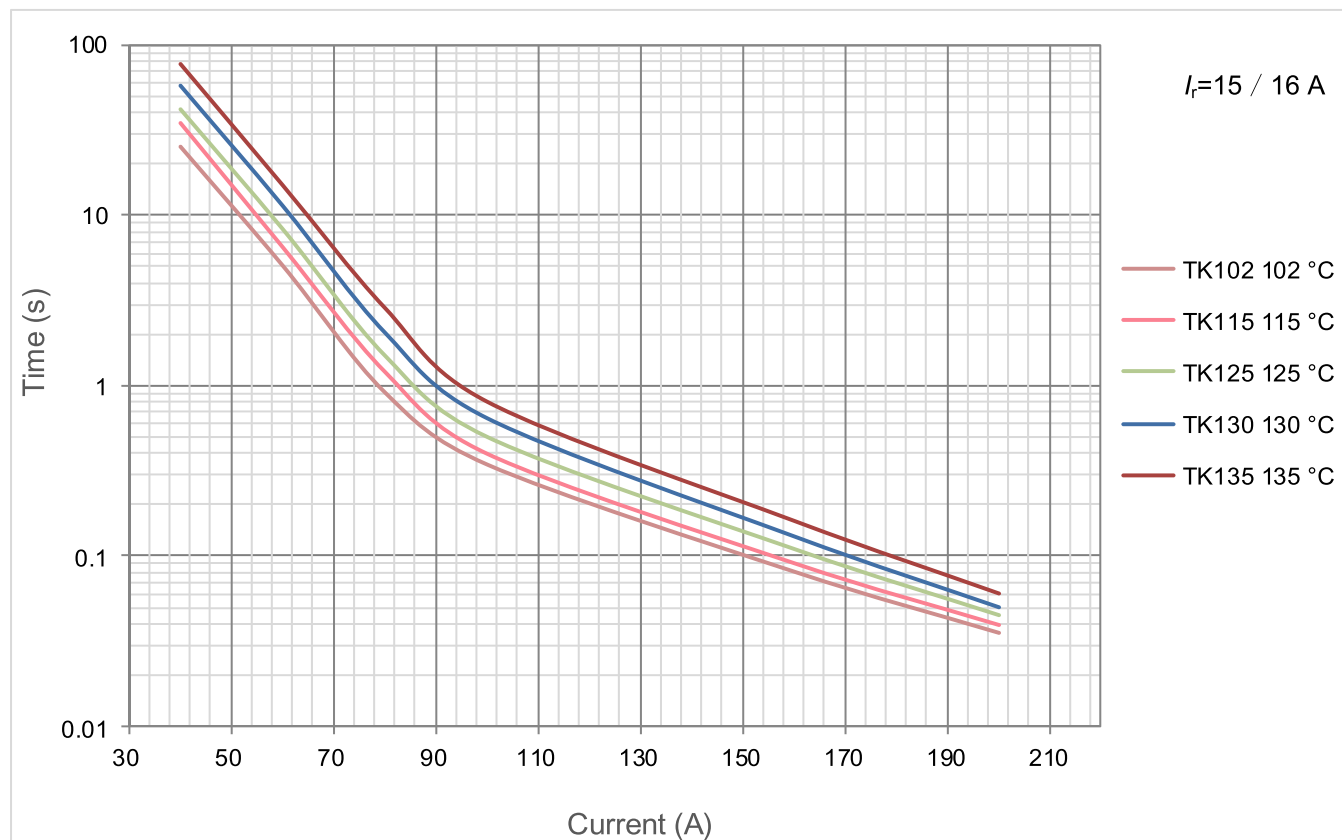
SKL Series

This is an illustrated curve for the model SKL series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



TK Series

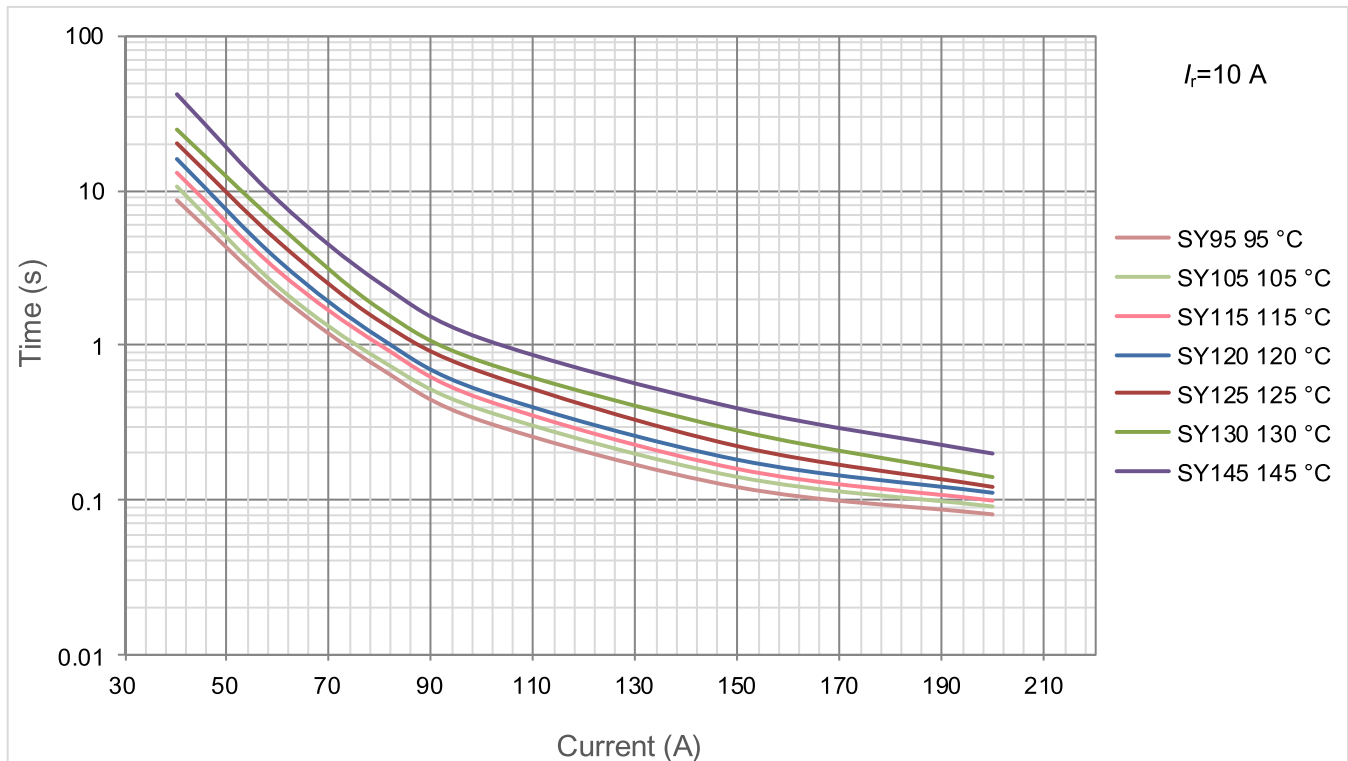
This is an illustrated curve for the model TK series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Current Time Curve

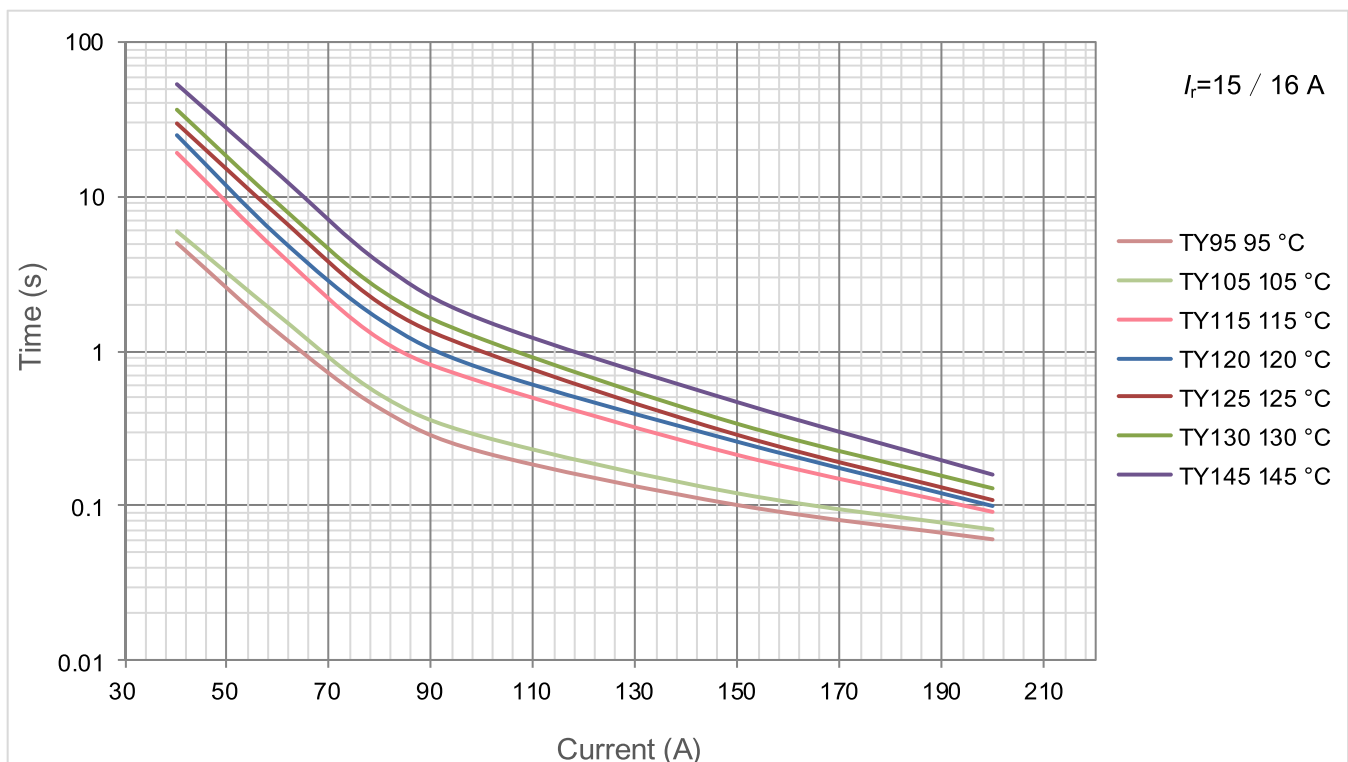
SY Series

This is an illustrated curve for the model SY series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



TY Series

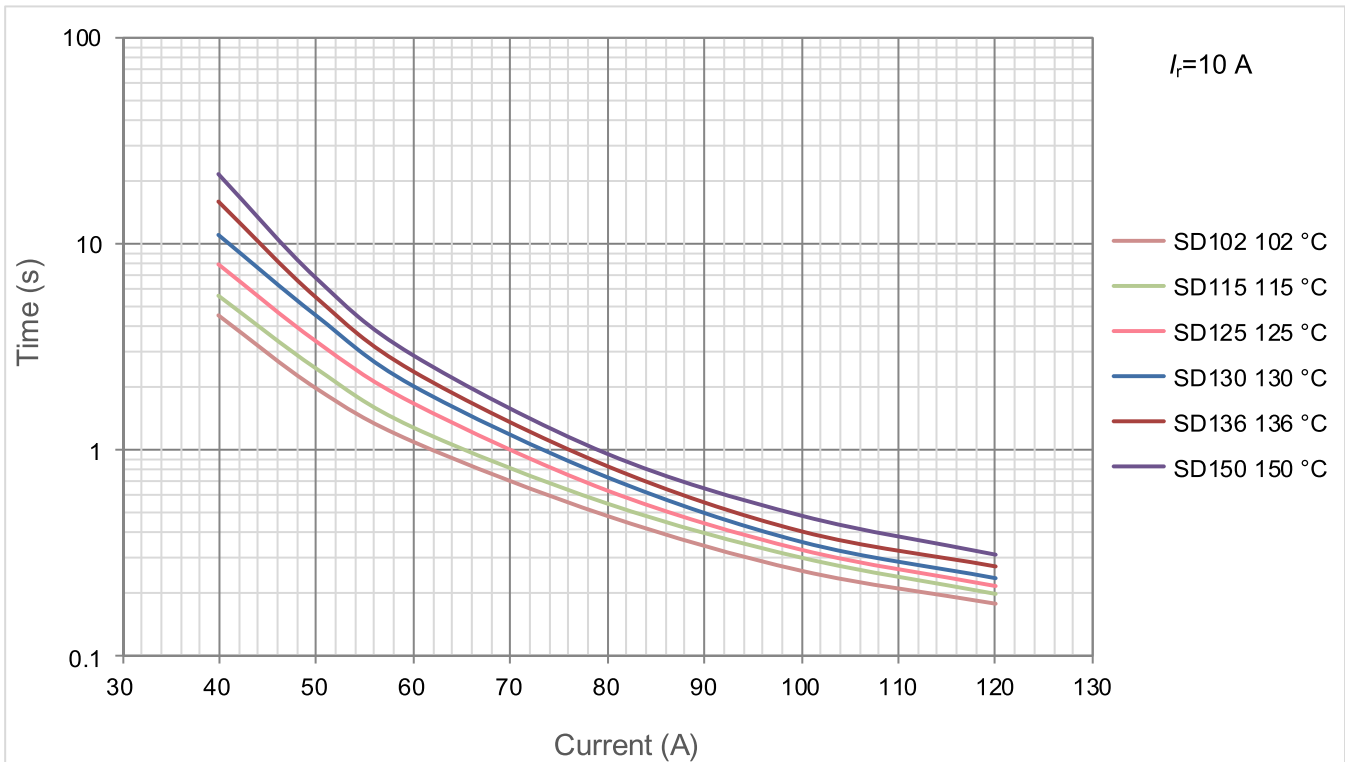
This is an illustrated curve for the model TY series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Current Time Curve

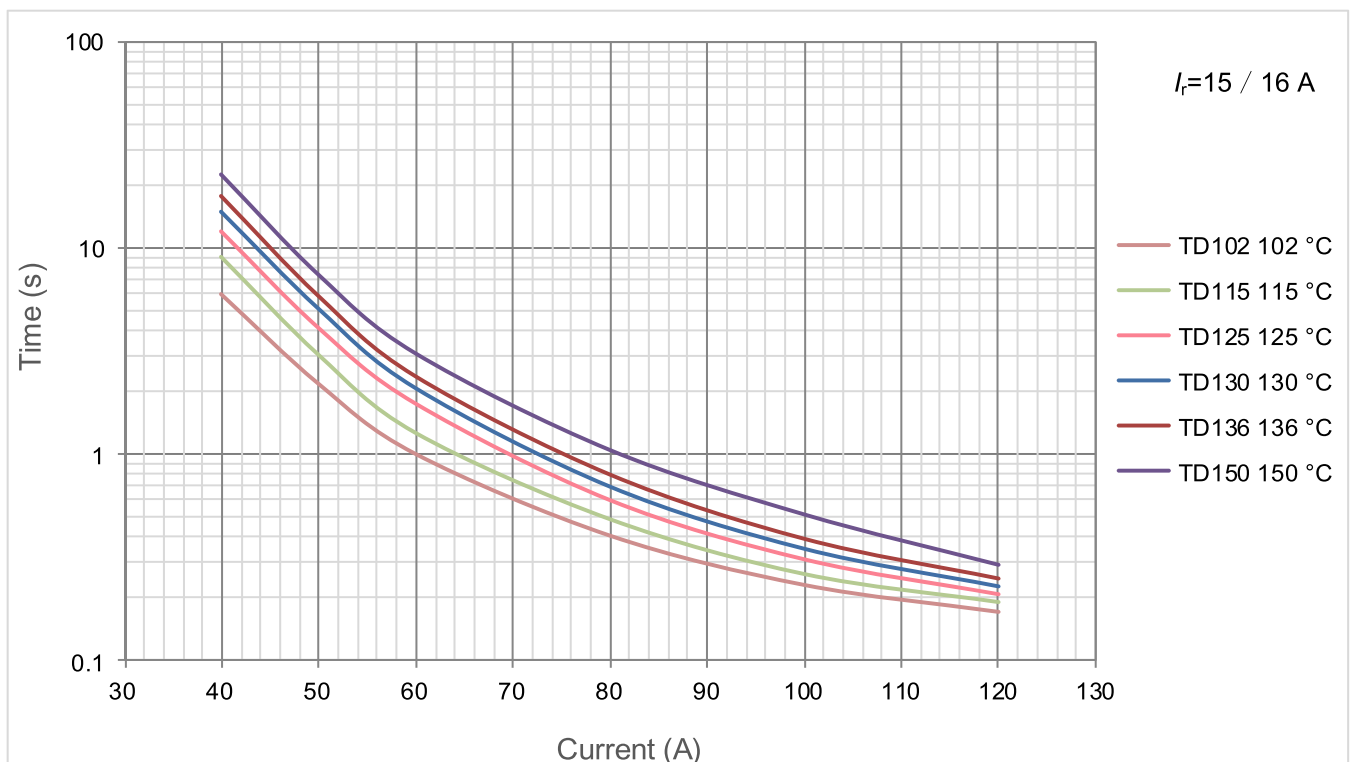
SD Series

This is an illustrated curve for the model SD series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



TD Series

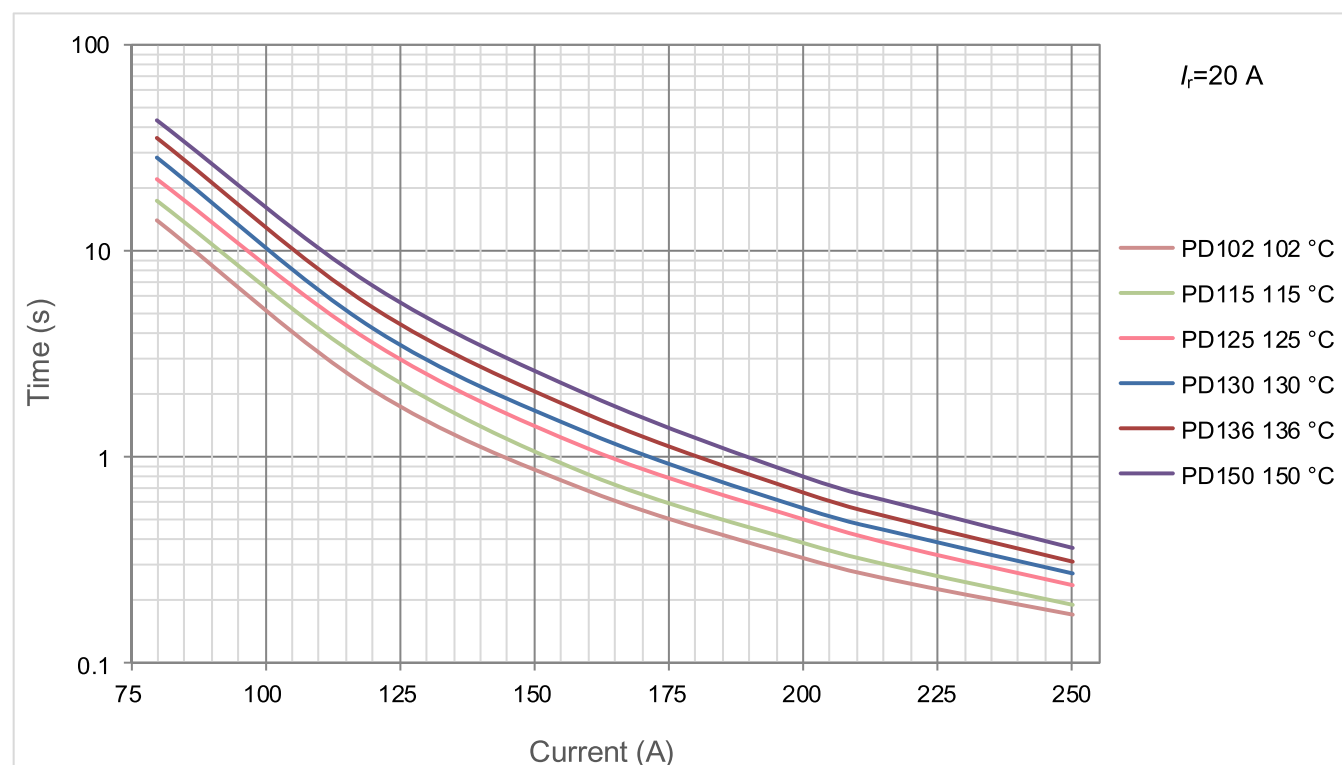
This is an illustrated curve for the model TD series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Current Time Curve

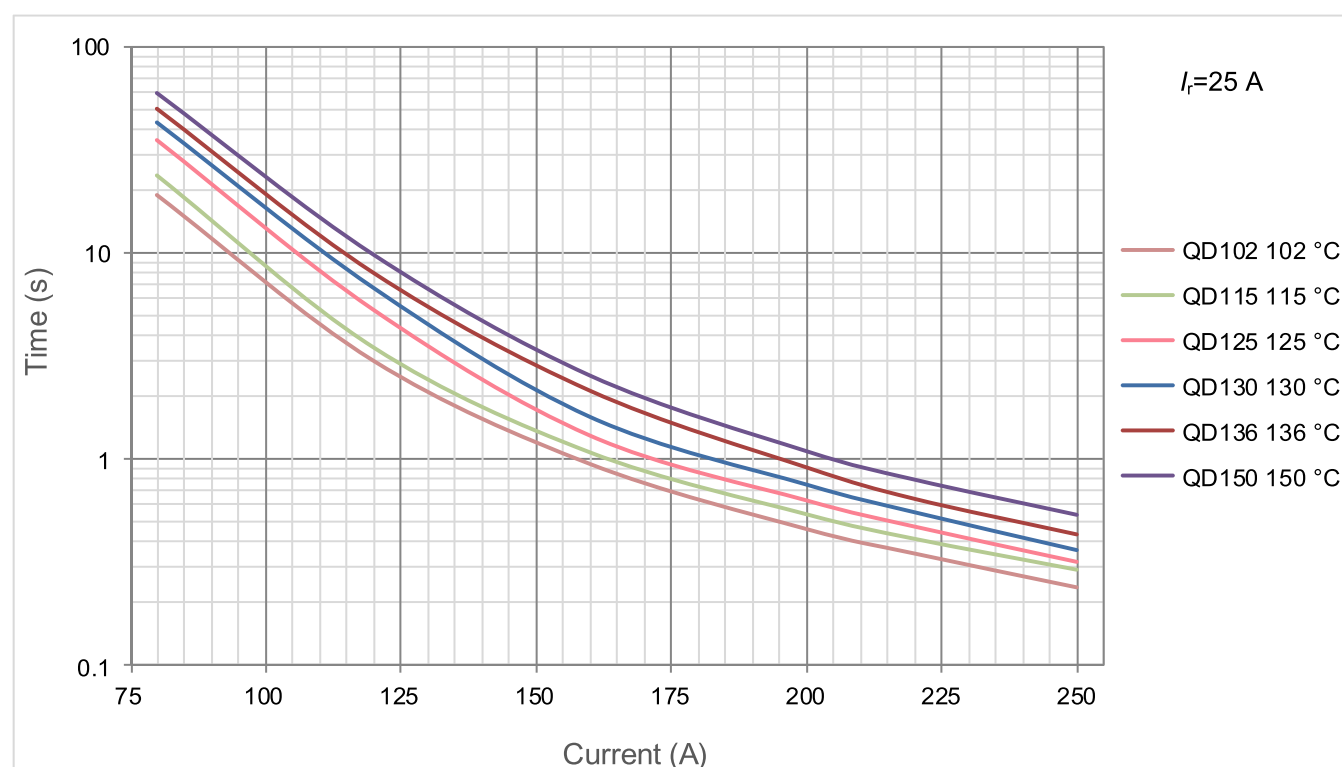
PD Series

This is an illustrated curve for the model PD series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



QD Series

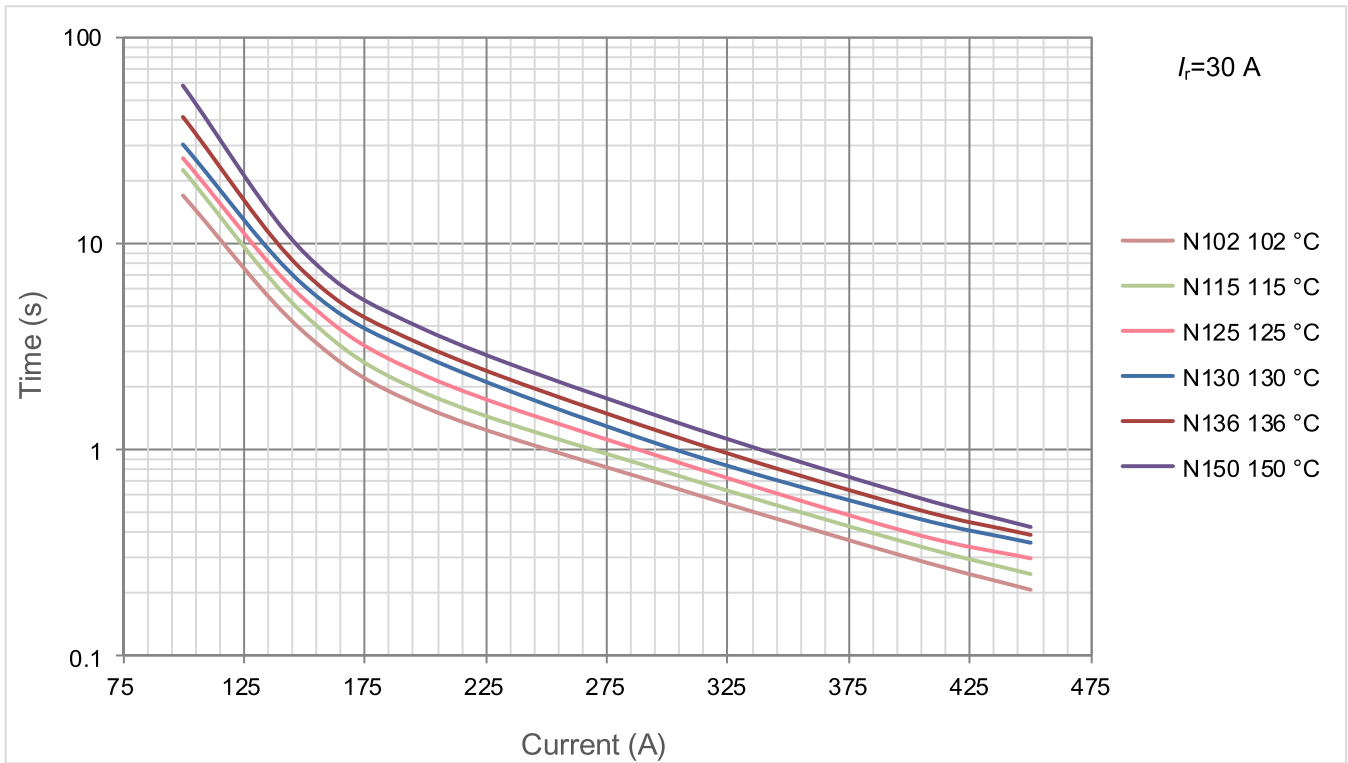
This is an illustrated curve for the model QD series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Current Time Curve

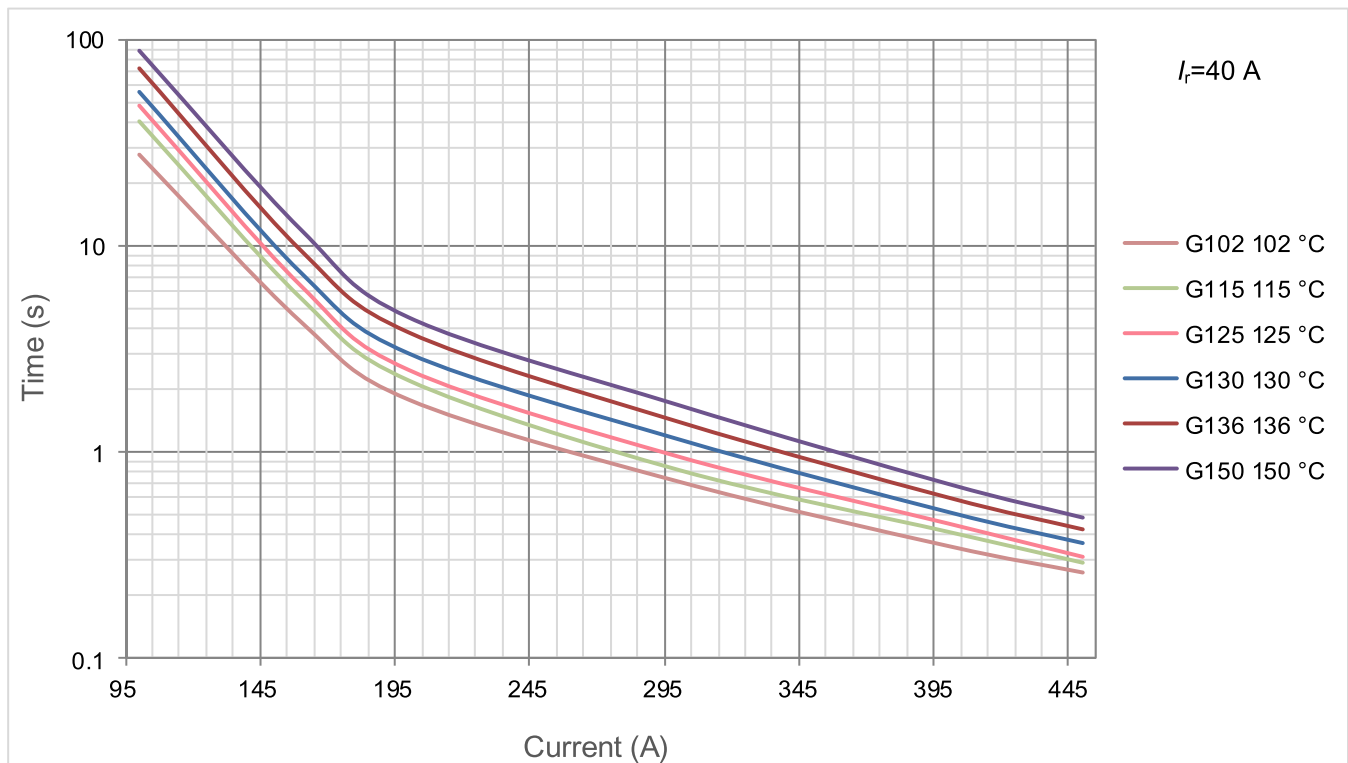
N Series

This is an illustrated curve for the model N series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



G Series

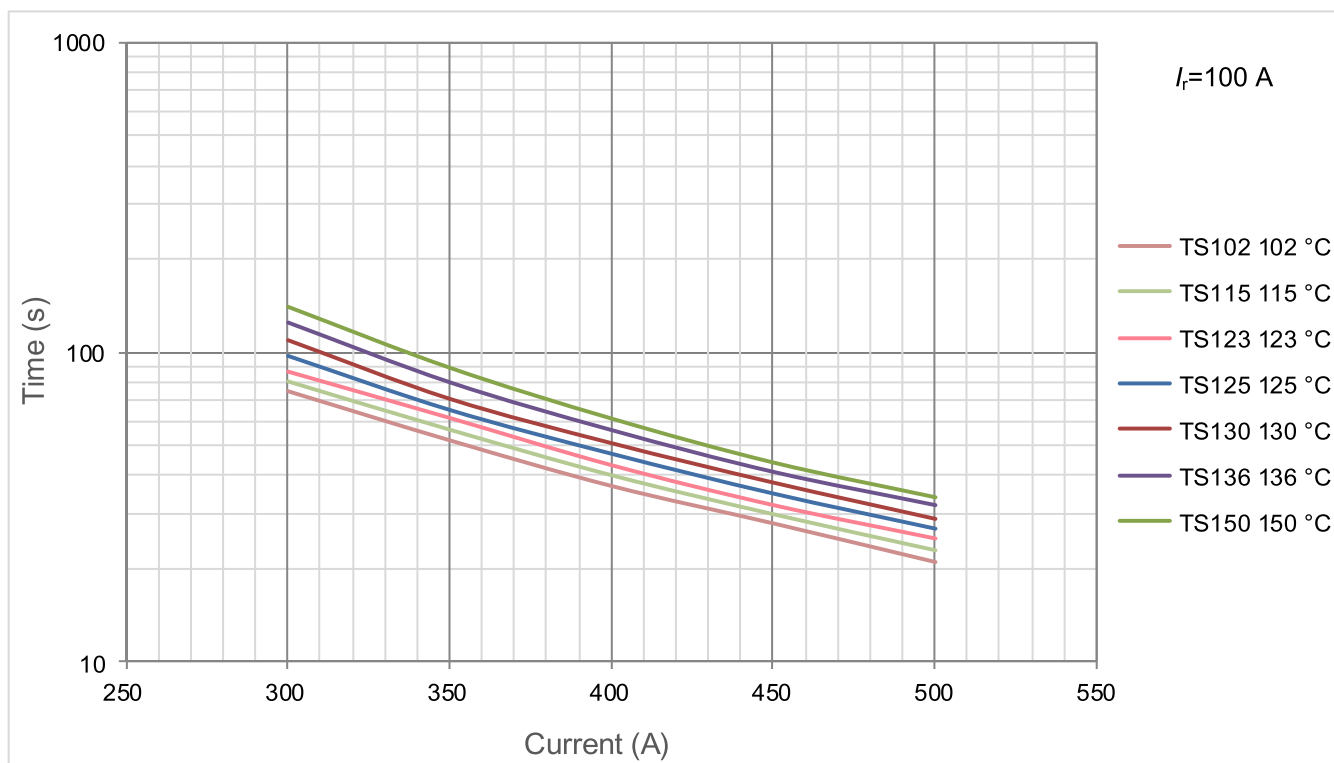
This is an illustrated curve for the model G series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Current Time Curve

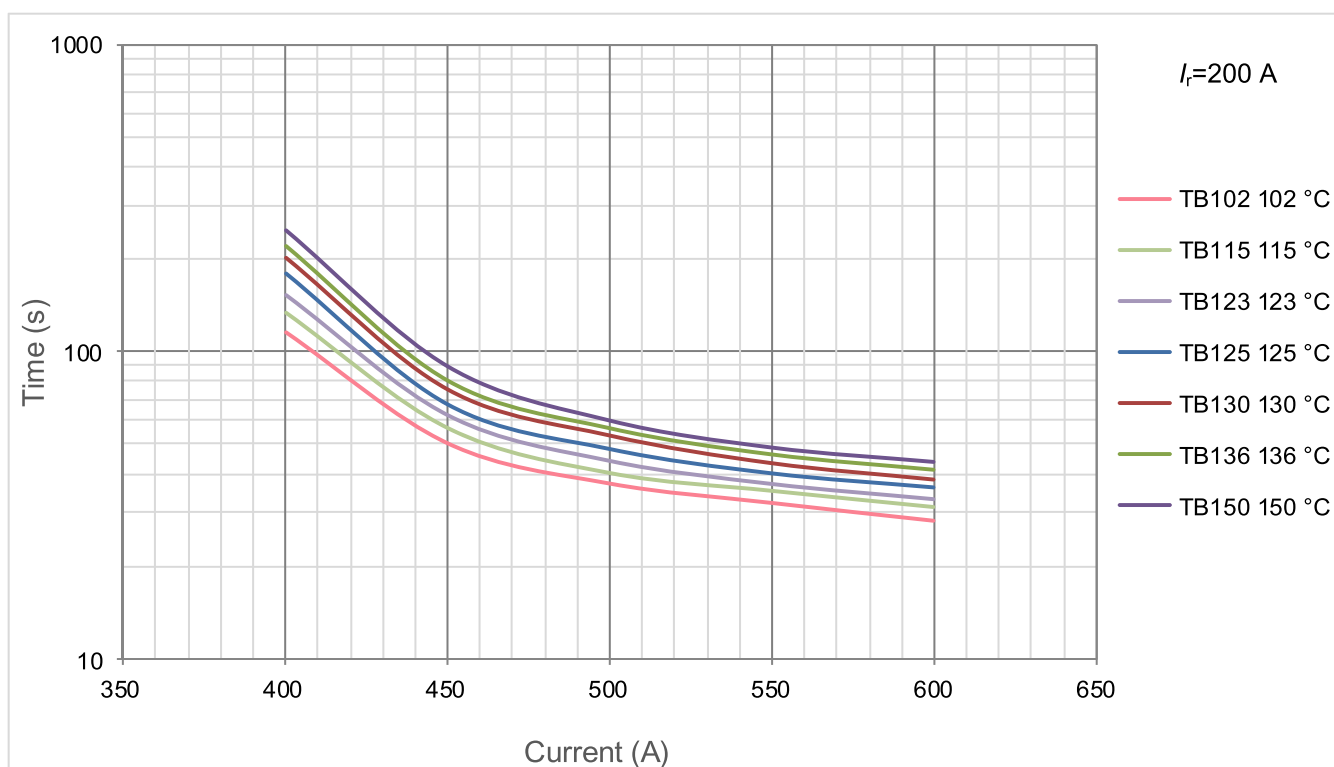
TS Series

This is an illustrated curve for the model TS series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



TB Series

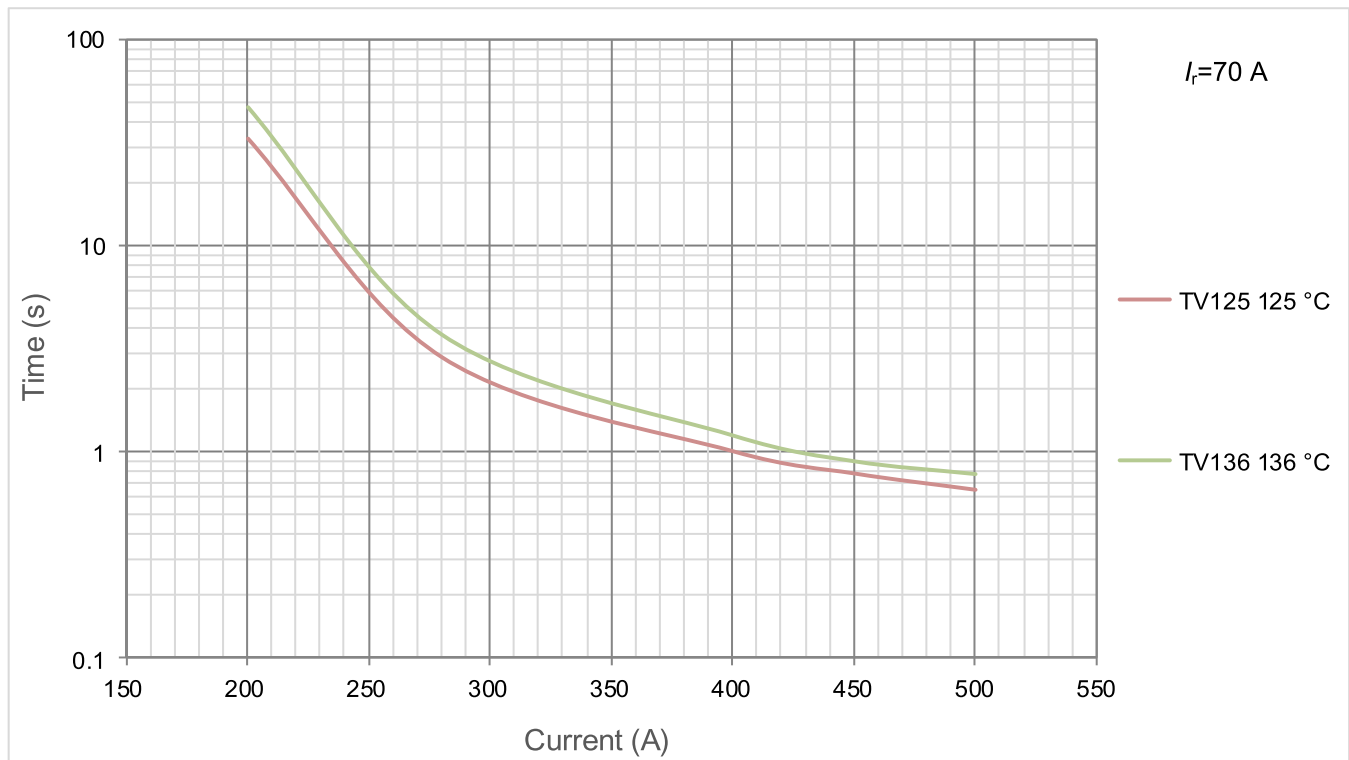
This is an illustrated curve for the model TB series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Current Time Curve

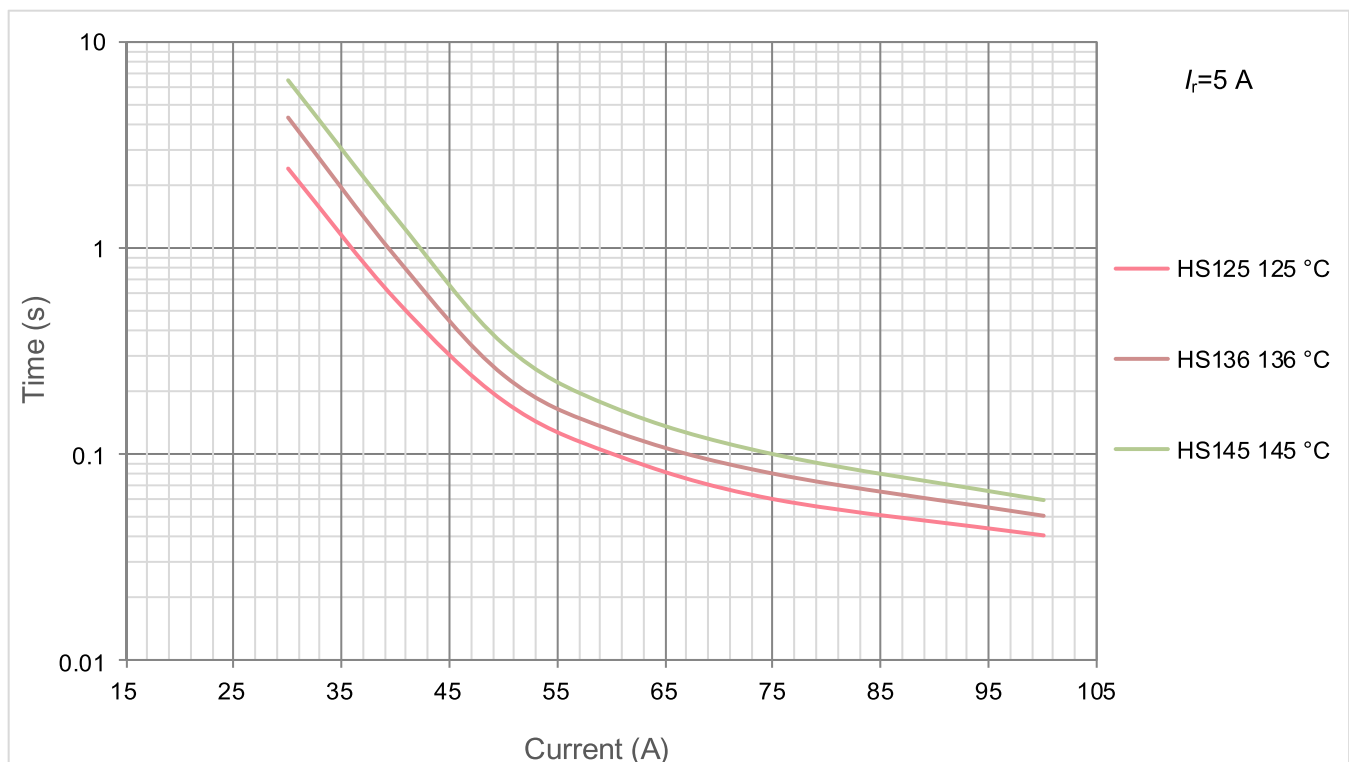
TV Series

This is an illustrated curve for the model TV series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



HS Series

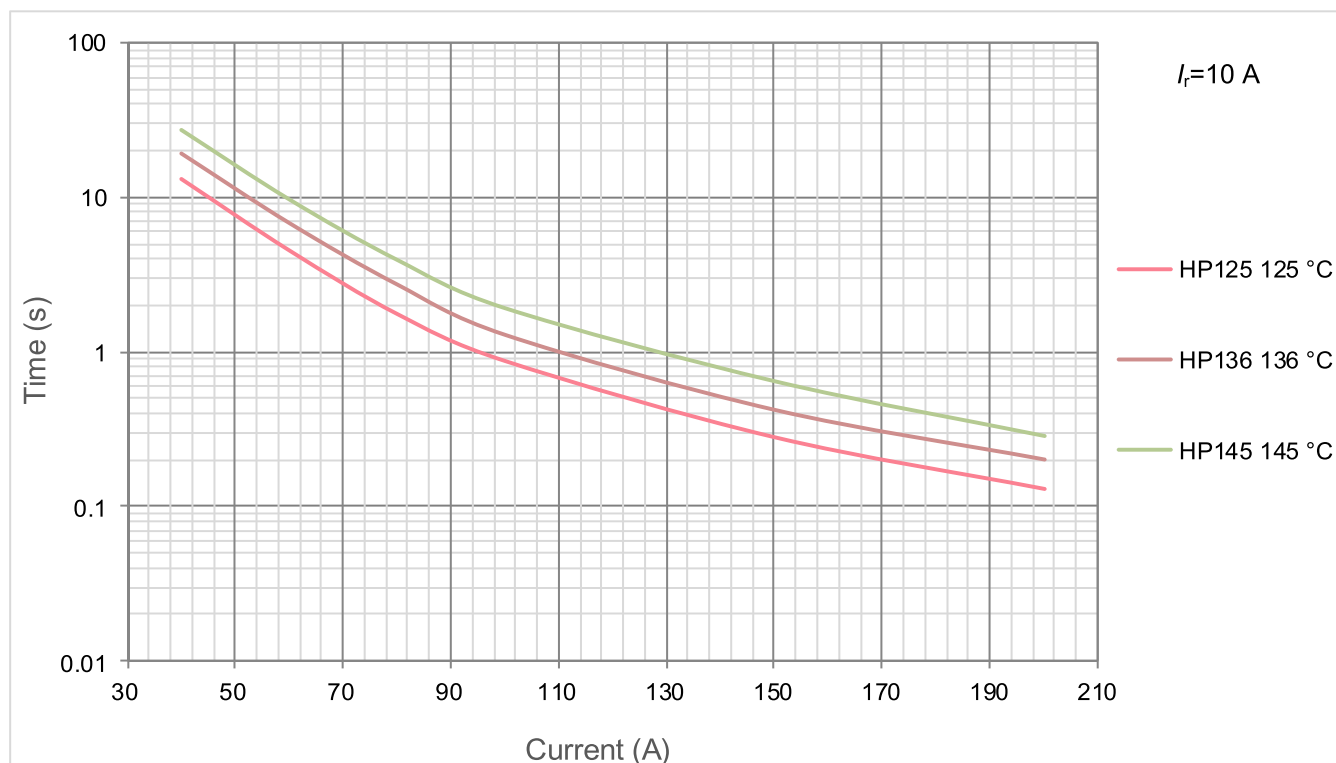
This is an illustrated curve for the model HS series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



Current Time Curve

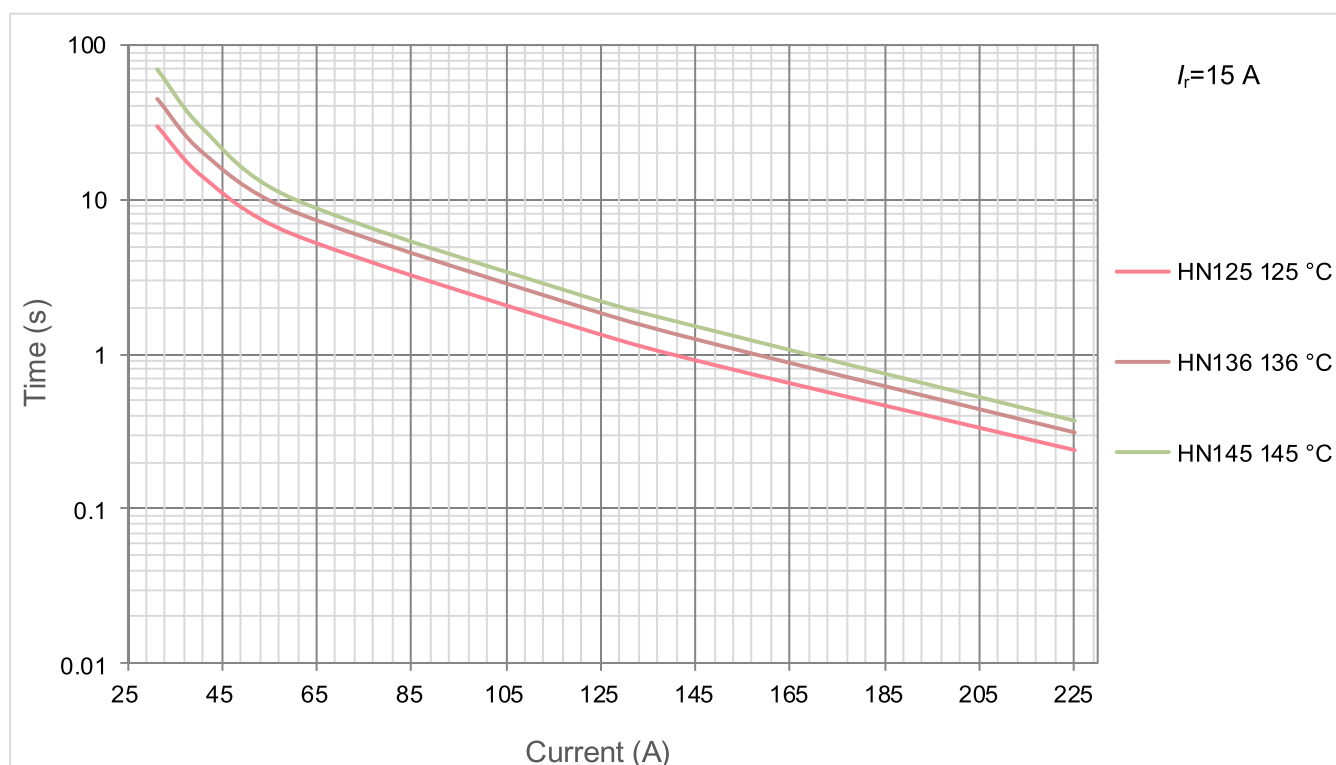
HP Series

This is an illustrated curve for the model HP series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)



HN Series

This is an illustrated curve for the model HN series, describing the clearing time at Multi-times rated current in the condition of the room temperature 25 °C. (This curve is for reference only)





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