







Pb Free Thermal Cutoffs  
**ELCUT** Safety Standard Approval List

	Type No.	Rated Functioning Temperature (°C)	Electrical Ratings			PSE	UL	C-UL	CSA	VDE	CCC
			AC/DC	Ampere (A)	Voltage (V)						
12 Series	12G	65	AC	1.5	250	●	●	●	—	●	●
	12Y	76		2	250	●	●	●	—	●	●
	12E	108		2	250	●	●	●	—	●	●
	12Z	115		2	250	●	●	—	●	●	●
	12X	133	AC	2	250	●	●	●	—	●	●
				3.5	125	●	●	●	—	●	—
	12M	139	DC	3.5	50	—	●	●	—	●	—
			AC	1.5	250	●	●	●	—	●	●
12J	145	DC	7	50	—	●	●	—	●	—	
		AC	2	250	●	●	●	—	●	●	
22 Series	22ER	108	AC	4	250	●	●	●	—	●	●
				5	125	●	●	●	—	●	—
	5	250		●	●	—	●	●	●		
	7	125		—	●	—	●	●	●		
	22MR	139	DC	2.5	250	●	●	●	—	●	●
				14	50	—	●	●	—	●	—
22JR	145	AC	3.5	250	●	●	●	—	●	●	
			7	125	●	●	●	—	●	●	
32 Series	32E	108	AC	1	250	●	●	●	—	●	●
				2	125	—	●	●	—	●	—
	32Z	115		1	250	●	●	—	●	●	●
				2	125	—	●	—	●	●	●
	32X	133		1	250	●	●	●	—	●	●
				2	125	—	●	●	—	●	—
	32M	139		1	250	●	●	●	—	●	●
				0.8	250	●	●	—	—	●	●
32J	145	2	125	—	●	●	—	●	—		
		44E	108	AC	0.5	250	●	●	●	—	●
1	125				—	●	●	—	●	—	
DC	2.5			50	—	●	●	—	—	—	
	44Z			115	AC	1	250	●	●	—	●
1.5		125	—			●	—	●	●	●	
DC		3.5	50		—	●	—	●	●	—	
		3.5	50		—	●	—	●	—	—	
44X	133	AC	0.5	250	●	●	●	—	●	●	
			1.5	125	—	●	●	—	●	—	
44K	150	0.5	250	●	●	●	—	●	●		
		X Series	X2E	AC	3	250	●	●	●	—	●
3	250				●	●	—	●	●	●	
X2Z	115		5		125	—	●	—	●	●	●
			3		250	●	●	●	—	●	●
X2X	133		5		125	●	●	●	—	●	—
			U2 Series		108	AC	2	250	●	●	●
2.5	250	●		●			—	●	●	●	
2.5	250	●		●			●	—	●	●	
2.5	250	●		●			●	—	●	●	
U2J	145	5	125	—	●	●	—	●	—		
		S Series	SE	AC	1	250	●	●	●	—	●
1.5	125				—	●	●	—	●	—	
S2	115		1		250	●	●	—	●	●	●
			1.5		125	—	●	—	●	●	●
SX	133		1		250	●	●	●	—	●	●
			1.5		125	—	●	●	—	●	—
SJ	145	0.8	250	●	●	●	—	●	●		

Pb Free Thermal Cutoffs  
**ELCUT** PB Free Cross Reference Chart

**12 series**

**Pb-Free**

(rev.01)

type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holdin g Temp. (°C)	Max. Temp. Limit (°C)	Electrical Ratings		U L	C S A	V D E	T U V	B E A B	C C C	P S E	type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holdin g Temp. (°C)	Max. Temp. Limit (°C)	Electrical Ratings		U L	c-UL CSA *1	V D E	C C C	P S E	
					(A)	(V)													(A)	(V)						
12B	65	62 ± 3	55	200	AC 2	250	●	●	●	●	●	●	●	12G	65	62 ± 3	49	200	AC 1.5	250	●	●	●	●	●	●
120	76	73.5 ± 2.5	50	200	AC 1.5	250	●	●	●	●	●	●	●	12Y	76	72 ± 3	57	200	AC 2	250	●	●	●	●	●	●
12N	98	94 ± 2	72	200	AC 1.5	250	●	●	-	-	-	●	●													
					AC 2	125	●	●	-	-	-	●	●													
					AC 5	50	●	●	-	-	-	●	●													
					DC 5	50	●	●	-	-	-	●	●													
121	102	98 ± 2	76	200	AC 2	250	●	●	●	●	●	●	12E	108	104 ± 3	88	200	AC 2	250	●	●	●	●	●	●	
122	115	112 ± 3	89	200	AC 2	250	●	●	●	●	●	●	122	115	112 ± 3	89	200	AC 2	250	●	●	●	●	●	●	
123	130	126 ± 2	102	200	AC 2	250	●	●	●	●	●	●		12X	133	129 ± 3	116	200	AC 2	250	●	●	●	●	●	●
					DC 5	50	●	-	-	-	-	●							●	●	●	●	●	●	●	●
124	133	130 ± 2	108	200	AC 2	250	●	●	●	●	●	●	12J	145	141 ± 3	125	200	AC 2	250	●	●	●	●	●	●	
125	150	145 ± 2	123	200	AC 2	250	●	●	●	●	●	●						12M	139	135 ± 3	122	200	AC 1.5	250	●	●
126	169	164.5 ± 2.5	142	200	AC 2	250	●	●	●	●	-	●						DC 7	50	●	●	●	●	●		
127	187	184 ± 3	163	200	AC 2	250	●	●	●	●	●	●													67	67
128	139	135 ± 3	113	200	AC 2	250	●	●	●	●	●	●							DC 7	50	●	●	●	●	●	
					DC 5.5	50	●	-	-	-	-	●														●

**22 series**

**Pb-Free**

type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holdin g Temp. (°C)	Max. Temp. Limit (°C)	Electrical Rating		U L	C S A	V D E	T U V	B E A B	C C C	P S E	type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holdin g Temp. (°C)	Max. Temp. Limit (°C)	Electrical Rating		U L	c-UL CSA *1	V D E	C C C	P S E
					(A)	(Vac)													(A)	(Vac)					
221R	102	98 ± 3	83	200	4	250	●	●	●	●	●	●	●	22ER	108	104 ± 3	89	200	4	250	●	●	●	●	●
					5	125	●	●	●	●	●	●	-						●	●					
222R	115	112 ± 3	92	200	5	250	●	●	●	●	●	●	222R	115	112 ± 3	92	200	5	250	●	●*1	●	●	●	●
					7	125	●	●	●	●	●	●						-	●	●					
223R	130	126 ± 3	102	200	5	250	●	●	●	●	●	●	22XR	133	129 ± 3	under developemnt									
					7	125	●	●	●	●	●	●				-	●								
224R	133	130 ± 3	110	200	5	250	●	●	●	●	●	●	22JR	145	141 ± 3	125	200	3.5	250	●	●	●	●	●	●
					7	125	●	●	●	●	●	●													
225R	150	146 ± 3	123	200	5	250	●	●	●	●	●	●				113	200	7	125	●	●	●	●	●	
					7	125	●	●	●	●	●	●													-
227R	187	184 ± 3	160	200	5	250	●	●	●	●	●	●													
					7	125	●	●	●	●	●	●													-
228R	139	135 ± 3	116	200	5	250	●	●	●	●	●	●	22MR	139	135 ± 3	122	200	2.5	250	●	●	●	●	●	●
					7	125	●	●	●	●	●	●													

**32 series**

**Pb-Free**

type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holding Temp. (°C)	Max. Temp. Limit (°C)	Electrical Ratings		U L	C S A	V D E	T U V	B E A B	C C C	P S E	type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holding Temp. (°C)	Max. Temp. Limit (°C)	Electrical Ratings		U L	c-UL CSA *1	V D E	C C C	P S E
					(A)	(V)													(A)	(V)					
320	76	73.5 ± 2.5	50	200	1	250	●	●	●	●	●	●	●												
					2	125	●	●	●	●	●	●	-												●
321	102	98 ± 2	76	200	1	250	●	●	●	●	●	●	●	32E	108	104 ± 3	92	200	1	250	●	●	●	●	●
					2	125	●	●	●	●	●	●	-						●	●					
322	115	112 ± 3	89	200	1	250	●	●	●	●	●	●	322	115	112 ± 3	89	200	1	250	●	●*1	●	●	●	●
					2	125	●	●	●	●	●	●						-	●	●					
323	130	126 ± 2	102	200	1	250	●	●	●	●	●	●	32X	133	129 ± 3	119	200	1	250	●	●	●	●	●	●
					2	125	●	●	●	●	●	●						-	●	●					
324	133	130 ± 2	108	200	1	250	●	●	●	●	●	●						115	200	2	125	●	●	●	●
					2	125	●	●	●	●	●	●													
325	150	145 ± 2	123	200	1	250	●	●	●	●	●	●	32J	145	141 ± 3	127	200	0.8	250	●	●	●	●	●	●
					2	125	●	●	●	●	●	●													
326	169	164.5 ± 2.5	142	200	1	250	●	-	-	-	-	●													
					2	125	●	-	-	-	-	●													-
328	139	135 ± 3	113	200	1	250	●	●	●	●	●	●	32M	139	135 ± 3	118	200	1	250	●	●	●	●	●	●
					2	125	●	●	●	●	●	●													

**44 series**
**Pb-Free**

type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holding Temp. (°C)	Max. Temp. Limit (°C)	Electrical Rating		U L	C S A	V D E	T U V	B E A B	C C C	P S E	type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holding Temp. (°C)	Max. Temp. Limit (°C)	Electrical Rating		U L	c-UL CSA *1	V D E	C C C	P S E									
					(A)	(V)													(A)	(V)														
441	102	98 ± 3	76	200	AC	0.5	250	●	●	●	●	●	●	44E	108	104 ± 3	94	200	AC	0.5	250	●	●	●	●	●								
						1	125	●	●	●	●	●	●							●	●	●	●											
					DC	2.5	50	●	●	●	●	●	●	●					●	●	●	442	115	112 ± 3	99	200	AC	1	250	●	●*1	●	●	●
						1.5	125	●	●*1	●	●	●	●	●					●	●	●													
DC	2.5	50	●	●	●	●	●	●	●	●	●	●	44X	133	129 ± 3	84	200	AC	1.5	125	●	●*1					●	●	●					
	3.5	50	●	●*1	●	●	●	●	●	●	●	●																						
443	130	126 ± 2	111	200	AC	1	250	●	●	●	●	●	●					44K	150	143 ± 3	132	200	AC	0.5	250	●	●	●	●	●				
						1.5	125	●	●	●	●	●	●											●	●	●	●							
					DC	3.5	50	●	●	●	●	●	●	●	●	●	●	444					133	130 ± 2	114	200	AC	1	250	●	●	●	●	●
						1.5	125	●	●	●	●	●	●	●	●	●	●																	
DC	3	50	●	●	●	●	●	●	●	●	●	●	445	150	145 ± 2	123	200	AC	0.5	250	●	●					●	●	●					
	4	50	●	●	●	●	●	●	●	●	●	●																						
447	187	184 ± 3	162	200	AC	1	250	●	●	●	●	●	●					448	139	135 ± 3	119	200	AC	0.5	250	●	●	●	●	●				
						1.5	125	●	●	●	●	●	●											●	●	●	●							
					DC	4	50	●	●	●	●	●	●	●	●	●	●	444					133	130 ± 2	107	200	AC	1	250	●	●	●	●	●
						1.5	125	●	●	●	●	●	●	●	●	●	●																	
DC	4	50	●	●	●	●	●	●	●	●	●	●	445	150	145 ± 2	119	200	AC	1	250	●	●					●	●	●					
	1.5	125	●	●	●	●	●	●	●	●	●	●																						
DC	4	50	●	●	●	●	●	●	●	●	●	●	447					187	184 ± 3	155	200	AC	1	250	●	●	●	●	●					
	1.5	125	●	●	●	●	●	●	●	●	●	●																						
DC	4	50	●	●	●	●	●	●	●	●	●	●	448	139	135 ± 3	106	200					AC	1	250	●	●	●	●	●					
	1.5	125	●	●	●	●	●	●	●	●	●	●																						
DC	4	50	●	●	●	●	●	●	●	●	●	●	448					139	135 ± 3	106	200	AC	1	250	●	●	●	●	●					
	1.5	125	●	●	●	●	●	●	●	●	●	●																						

**S series**
**Pb-Free**

type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holding Temp. (°C)	Max. Temp. Limit (°C)	Electrical Rating		U L	C S A	V D E	T U V	B E A B	C C C	P S E	type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holding Temp. (°C)	Max. Temp. Limit (°C)	Electrical Rating		U L	c-UL CSA *1	V D E	C C C	P S E
					(A)	(V)													(A)	(V)					
S1	102	98 ± 2	76	200	1	250	●	●	●	●	●	●	●	SE	108	104 ± 3	92	200	1	250	●	●	●	●	●
						1.5	125	●	●	●	●	●	●							●	●	●	●		
S2	115	112 ± 3	89	200	1	250	●	●	●	●	●	●	●	S2	115	112 ± 3	89	200	1	250	●	●*1	●	●	●
						1.5	125	●	●*1	●	●	●	●							●	●	●			
S3	130	126 ± 2	102	200	1	250	●	●	●	●	●	●	●	SX	133	129 ± 3	116	200	1	250	●	●	●	●	●
						1.5	125	●	●	●	●	●	●							●	●	●	●		
S4	133	130 ± 3	108	200	1	250	●	●	●	●	●	●	●	SJ	145	141 ± 3	123	200	0.8	250	●	●	●	●	●
						1.5	125	●	●	●	●	●	●							●	●	●	●		
S5	150	145 ± 2	123	200	1	250	●	●	●	●	●	●	●	SJ	145	141 ± 3	123	200	0.8	250	●	●	●	●	●
						1.5	125	●	●	●	●	●	●							●	●	●	●		

**U2 series**
**Pb-Free**

type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holding Temp. (°C)	Max. Temp. Limit (°C)	Electrical Rating		U L	C S A	V D E	T U V	B E A B	C C C	P S E	type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holding Temp. (°C)	Max. Temp. Limit (°C)	Electrical Rating		U L	c-UL CSA *1	V D E	C C C	P S E
					(A)	(V)													(A)	(V)					
U21	102	98 ± 2	76	200	2	250	●	●	●	●	●	●	●	U2E	108	104 ± 3	88	200	2	250	●	●	●	●	●
U22	115	112 ± 3	89	200	2.5	250	●	●	●	●	●	●	●	U22	115	112 ± 3	89	200	2.5	250	●	●*1	●	●	●
U23	130	126 ± 2	102	200	2.5	250	●	●	●	●	●	●	●	U2X	133	129 ± 3	112	200	2.5	250	●	●	●	●	●
U24	133	130 ± 2	108	200	2.5	250	●	●	●	●	●	●													
U25	150	145 ± 2	123	200	2.5	250	●	●	●	●	●	●	●	U2J	145	141 ± 3	120	200	2.5	250	●	●	●	●	●
U26	169	165 ± 3	142	200	2.5	250	●	●	●	●	●	●	●				92		5	125	●	●	●	●	●
U28	139	135 ± 3	113	200	2.5	250	●	●	●	●	●	●	●												

**X2 series**
**Pb-Free**

type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holding Temp. (°C)	Max. Temp. Limit (°C)	Electrical Rating		U L	C S A	V D E	T U V	C C C	P S E	type No.	Rated Functioning Temp.	Cut-off temp. (°C)	Holding Temp. (°C)	Max. Temp. Limit (°C)	Electrical Rating		U L	c-UL CSA *1	V D E	C C C	P S E
					(A)	(Vac)												(A)	(V)					
X21	102	98 ± 2	76	200	3	250	●	●	●	●	●	●	X2E	108	104 ± 3	87	200	3	250	●	●	●	●	●
X22	115	112 ± 3	89	200	3	250	●	●	●	●	●	●	X22	115	112 ± 3	89	200	3	250	●	●*1	●	●	●
						5	125	●	●*1	●	●	●							●					
X23	130	126 ± 2	102	200	3	250	●	●	●	●	●	●	X2X	133	129 ± 3	113	200	3	250	●	●	●	●	●
						5	125	●	●	●	●	●							●					
X24	133	130 ± 2	108	200	3	250	●	●	●	●	●	●	X2X	133	129 ± 3	104	200	5	125	●	●	●	●	●
						5	125	●	●	●	●	●							●					
X25	150	145 ± 2	123	200	2.5	250	●	●	●	●	●	●												
						5	125	●	●	●	●	●	●	●	●	●								

\*1:certificated by CSA



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information ?*

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