



Description

The 383 series are TR5 $^{\odot}$ time-lag 300V rated fuses and designed in accordance to IEC 60127-3.

Features and Benefits

- Halogen free, Lead-free and RoHS compliant
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shock safe casing

- Vibration resistant
- Recognized to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14
- Conforms to EN/J60127-1 and EN/J60127-3
- CE Mark indicates compliance with Low-Voltage and RoHS Directives

Additional Information



Resources





Accessories

Samples

Applications • Electronic Ballast

Electrical Characteristics for Series

% of	Opening Time				
Ampere Rating	1A - 6.3A	8A - 10A			
150%	1 Hour, Min.	1 Hour, Min.			
210%	2 Minutes, Max.	300 s, Max.			
275%	400 ms, Min.; 10 s, Max.	1 s, Min.; 20 s, Max.			
400%	150 ms, Min.; 3 s, Max.	150 ms, Min.; 3 s, Max.			
1000%	20 ms, Min.; 150 ms, Max.	20 ms, Min.; 150 ms, Max.			

Agency Approvals

Agency	Agency File Number	Ampere Range
VDE	40022712	4A - 5A
PS	NBK040322-JP1021 NBK200122-JP1021	1A - 5A 6.3A - 10A
c FL °us	E67006	1A - 10A
UK CA	N/A	1A - 10A

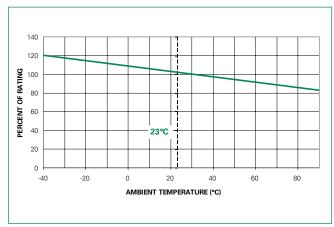
Electrical Characteristics Specifications by Item

			Max		Voltage Drop Power		Melting	Agency Approvals				
Amp Rated Code Current	Voltage Breaking Rating Capacity	Nominal Cold Resistance (Ohms)	1.0×I _N max. (mV)	1.5×I _N	Integral 10×I _N max. (A²s)	UK	VDE	⟨PS⟩	c 911 ° us	(E		
1100	1.00 A	300 V		0.0625	100	400	4.85	Χ	-	X	X	X
1125	1.25 A	300 V		0.0500	95	465	6.88	Χ	-	Χ	X	Χ
1160	1.60 A	300 V	100A@300VAC 50A@320VAC	0.0377	90	490	12.67	Χ	-	Χ	X	X
1200	2.00 A	300 V		0.0280	85	670	17.80	Χ	-	Χ	X	Χ
1250	2.50 A	300 V		0.0215	80	750	29.69	Χ	-	X	X	X
1315	3.15 A	300 V		0.0176	75	900	45.35	Χ	-	Χ	X	Χ
1400	4.00 A	300 V		0.0138	70	1200	72.00	Χ	Χ	X	X	X
1500	5.00 A	300 V	50A@320VAC 100A@250VAC	0.0108	65	1250	121.25	Χ	Χ	Χ	X	Χ
1630	6.30 A	300 V		0.0076	65	1400	148.84	Χ	-	Χ	X	X
1800	8.00 A	300 V		0.0059	63	1600	233.60	Χ	-	Χ	X	Χ
2100	10.00 A	300 V		0.0042	57	1600	365.00	Χ	-	X	X	Χ



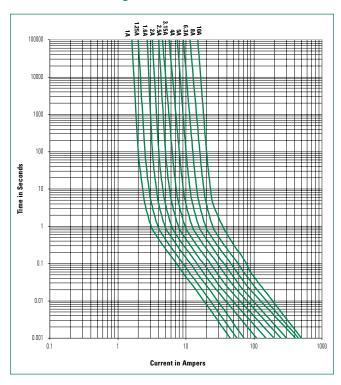
383 Series TR5® Time-Lag Fuse

Temperature Re-rating Curve

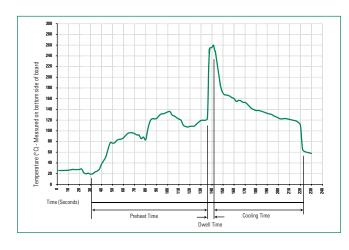


1. Rerating depicted in this curve is in addition to the standard derating of 25%

Average Time Current Curves



Soldering Parameters - Wave Soldering



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation		
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)		
Temperature Minimum:	100°C		
Temperature Maximum:	150°C		
Preheat Time:	60-180 seconds		
Solder Pot Temperature:	260°C Maximum		
Solder Dwell Time:	2-5 seconds		

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350°C +/- 5°C

Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process.



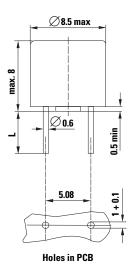
383 Series TR5® Time-Lag Fuse

Product Characteristics

Materials	Base/Cap: Brown Thermoplastic Polyamide PA 6.6, UL 94 V-0 Round Pins: Copper, Tin-plated			
Lead Pull Strength	10 N (IEC 60068-2-21)			
Solderability	260° C, ≤ 3 s. (Wave) 350° C, ≤ 1 s. (Soldering Iron)			
Soldering Heat Resistance	260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (Soldering Iron)			

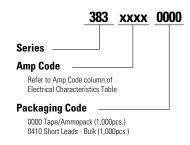
Operating Temperature	-40°C to +85°C (consider re-rating)			
Climatic Category	-40°C to +85°C /21 days (IEC 60068-1,-2-1,-2-2,-2-78)			
Stock Conditions	+10°C to +60°C RH ≤ 75% yearly average, without dew, maximum value for 30 days–95%			
Vibration Resistance	24 cycles at 15 min. each (IEC 60068-2-6) 10 - 60 Hz at 0.75 mm amplitude 60 - 2000 Hz at 10 g acceleration			

Dimensions



Long Leads (L=18.8mm ±0.3) Short Leads (L=4.3mm ±0.3)

Part Numbering System



Packing

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
		383 Series		
Tape & Ammopack	N/A	1,000	0000	N/A
Short Leads	N/A	1,000	0410	N/A

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