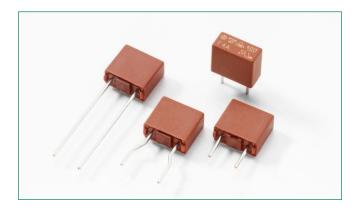
Radial Lead Fuses

TE5® Fuse > Time-Lag Fuse > 400 Series

400 Series, TE5® Fuse, Time-Lag





Agency Approvals

Agency	Agency File Number	Ampere Range
c FL °us	E67006	0.50A - 6.3A
PS	JET1896-31007-2001 JET1896-31007-1006	1A – 5A 6.3A
VDE	40026355	0.50A - 6.3A
(II)	2019010207215856	0.50A - 6.3A
K	SU05024-9004 SU05024-9003 SU05024-9001 SU05024-10003 SU05024-9002	0.50A - 0.80A 1A - 2.5A 3.15A 4A - 5A 6.3A

Description

The 400 Series TE5® Fuse is a Time-Lag type subminiature fuse that is designed for overcurrent protection. It is rated 250V and meets the requirements of IEC 60127-3.

Features

- Halogen free, Lead-free and RoHS compliant
- Reduced PCB space requirements
- · Direct solderable or plugin versions
- Low internal resistance
- · Shock safe casing
- · Vibration resistant

- High Breaking Capacity up to 130A at 250VAC
- Internationally approved
- Recognized to UL/CSA/ NMX 248-1 and UL/CSA/ NMX 248-14
- Conforms to IEC/EN/J/K 60127-1 and EC/EN/J/K 60127-3

Applications

- Battery chargers
- · Consumer electronics
- Power supplies
- Industrial controllers

Additional Information







Resources



Samples

Electrical Characteristics

% of Ampere Rating	Opening Time
150%	1 Hour, Minimum
210%	120 Secs., Maximum
275%	400 ms, Minimum; 10 Secs., Maximum
400%	150 ms, Minimum; 3 Secs., Maximum
1000%	20 ms, Minimum; 150 ms, Maximum

Electrical Characteristics

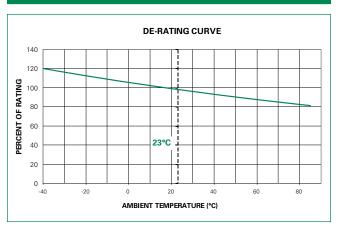
		Voltage	Breaking Capacity	Nominal Cold Resistance (Ohms)	Voltage Drop 1.0×I _N max. (mV)	Power Dissipation 1.0xl _N max. (mW)	Melting Integral 10×I _N max. (A²s)	Agency Approvals				
	Rated Current							c FL °us	PS E	VDE	((()	
0.5	0.5A	250		0.1950	165	297	2.170	×		Х	х	×
0800	0.8A	250		0.1003	116	387	6.720	×		×	X	X
1100	1.00A	250		0.0808	89	432	10.70	X	X	×	Х	X
1125	1.25A	250		0.0562	76	411	14.44	×	X	×	X	X
1160	1.60A	250	4004	0.0384	76	601	21.75	×	X	×	X	×
1200	2.00A	250	130A @250VAC	0.0292	75	758	46.00	×	X	×	х	×
1250	2.50A	250	@230VAC	0.0216	61	683	61.94	×	X	×	Х	x
1315	3.15A	250		0.0167	55	921	101.61	×	X	×	X	X
1400	4.00A	250		0.0124	65	936	133.40	×	X	×	Х	X
1500	5.00A	250		0.0098	56	948	216.50	×	×	×	х	×
1630	6.30A	250		0.0072	48	926	323.08	×	X	×	х	X

^{*} Per VDE, approved breaking capacity is at 100A, 250VAC



TE5® Fuse > Time-Lag Fuse > 400 Series

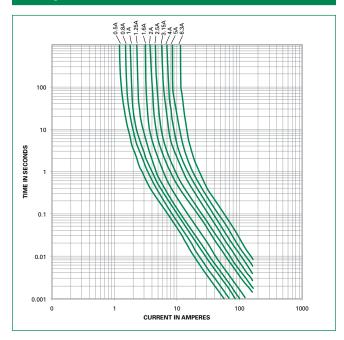
Temperature Re-rating Curve



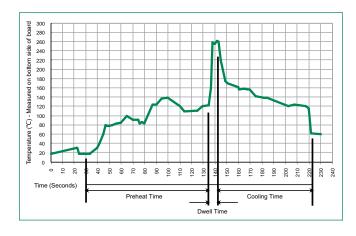
Note

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

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.

Radial Lead Fuses

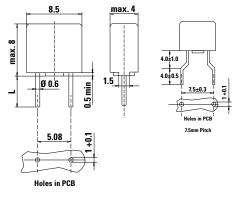
TE5® Fuse > Time-Lag Fuse > 400 Series

Product Characteristics

	Base/Cap: Brown Thermoplastic
Materials	Polyamide, UL 94 V-0
	Round Pins: Copper, Tin-plated
Lead Pull Strength	10 N (IEC 60068-2-21)
0-14	260°C, ≤ 3s. (Wave)
Solderability	350°C, ≤ 1s. (Soldering Iron)
Soldering Heat	260°C, 10s. (IEC 60068-2-20)
Resistance	350°C, 3s. (Soldering Iron)

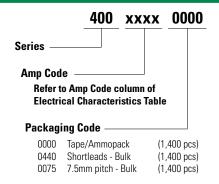
Operating Temperature	-40°C to +85°C (Consider re-rating)		
Climatic Category	-40°C to +85°C/21 days (IEC 60068-1, -2-1, -2-2, -2-78)		
Stock Conditions	+10°C to +60°C relative humidity 75% yearly average, without dew, maximum value for 30 days – 95%		
Vibration Resistance	24 cycles at 15 min. each (IEC 60028-2-6) 10–60Hz at 0.75mm amplitude 20–2000Hz at 10g acceleration		

Dimensions



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

Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width					
	400 Series								
Tape & Ammopack	N/A	1,400	0000	N/A					
Short Leads	N/A	1,400	0440	N/A					
7.5 mm Pitch	N/A	1,400	0075	N/A					

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