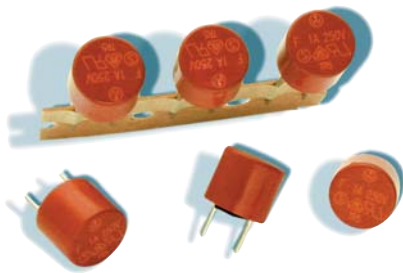
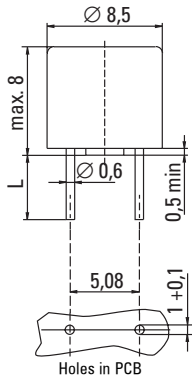


No. 370 / TR5®



Dimensions (mm)



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

IEC 60127-3/III, 250 V, F

Time-Current Characteristic

Quick Acting (F)

Standard

IEC 60127-3/III

Approvals

- VDE
- SEMKO
- cULus Recognized
- METI
- CCC

Features

- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shocksafe casing
- Vibration resistant
- Halogen free

WebLinks

Further infos see:
www.wickmanngroup.com

Further application infos see
Fuseology:

www.wickmanngroup.com/download/fuseology.pdf



Specifications

Packaging

- 000: Tape/Ampopack (1000 pcs.)
- 041: Short Leads - Bulk (1000 pcs.)

Materials

- Base/Cap: Brown Thermoplastic
Polyamide PA 6.6, UL 94 V0
- Round Pins: Copper, Sn plated

Operating Temperature

-40 °C to +85 °C (consider de-rating)

Climatic Category

-40 °C/+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 (EN 60068-6)
- 10 - 60 Hz at 0.75 mm amplitude
- 60 - 2000 Hz at 10 g acceleration

Lead Pull Strength

10 N (EN 60068-2-21)

Solderability

- 260 °C, ≤ 3 s (Wave)
- 350 °C, ≤ 3 s (Soldering iron)

Soldering Heat Resistance

260 °C, 10 s (IEC 60068-2-20)

Marking

Ⓜ, 370, 250 V, F, Current Rating, Approvals

Unit Weight

0.77 g (approx.)

Limits for Pre-arcing Time

Rated Current	1.5 x I _N	2.1 x I _N	2.75 x I _N	4 x I _N	10 x I _N
40 mA ... 6.30 A	> 1h	< 30 min	10 ms ... 3 s	3 ms ... 300 ms	< 20 ms



Permissible continuous operating current is ≤ 100 % at ambient temperature of 23 °C (73.4 °F).

Rated Current	Amp Code	Voltage Rating	Breaking Capacity	Voltage Drop 1.0 x I _N Ⓜ max. (mV)	Power Dissipation 1.5 x I _N Ⓜ max. (mW)	Melting Integral 10 x I _N Ⓜ max. (A ² s)	Approvals				
							VDE	SEMKO	cURus	METI-T-Mark	CCC
40mA	0040	250V		900	100	0.0002					
50mA	0050	250V		320	80	0.00035	•	•	•	•	
63mA	0063	250V		350	100	0.0005	•	•	•	•	
80mA	0080	250V		370	120	0.0014	•	•	•	•	
100mA	0100	250V		600	130	0.0038	•	•	•	•	
125mA	0125	250V		550	172	0.0066	•	•	•	•	
160mA	0160	250V		500	165	0.014	•	•	•	•	
200mA	0200	250V		465	190	0.03	•	•	•	•	
250mA	0250	250V		400	250	0.051	•	•	•	•	
315mA	0315	250V	35 A / 250 V AC ¹ 50-60Hz cos φ = 1.0	380	250	0.1	•	•	•	•	
400mA	0400	250V		120	135	0.025	•	•	•	•	
500mA	0500	250V		120	155	0.042	•	•	•	•	
630mA	0630	250V		115	200	0.076	•	•	•	•	
800mA	0800	250V		120	310	0.12	•	•	•	•	
1.00A	1100	250V		110	310	0.2	•	•	•	•	
1.25A	1125	250V		100	360	0.31	•	•	•	•	
1.60A	1160	250V		100	600	0.53	•	•	•	•	
2.00A	1200	250V		85	500	0.98	•	•	•	•	
2.50A	1250	250V		80	660	1.8	•	•	•	•	
3.15A	1315	250V		90	950	3.1	•	•	•	•	
4.00A	1400	250V		80	920	6.7	•	•	•	•	
5.00A	1500	250V	40 A / 250 V AC	80	1000	12.00	•	•	•	•	
6.30A*	1630	250V	50 A / 250 V AC	70	1200	24.00	G	•	•	•	

¹ Per UL, approved breaking capacity is 50 A at 250 V.

* Conducting path min. 0.2 mm²

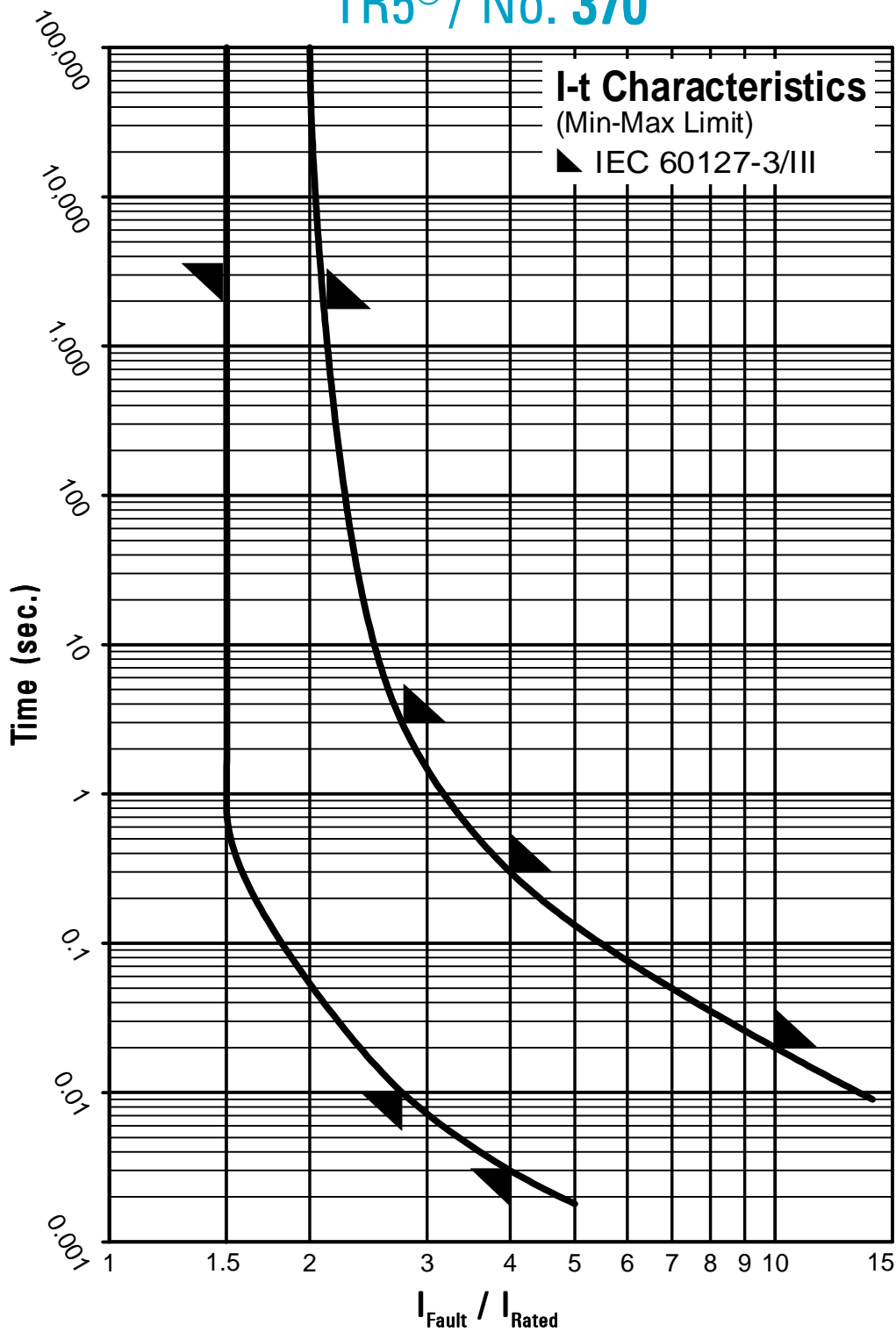
G = Expert Report

Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		370		

Specifications are subject to change without notice

TR5® / No. 370



Contact WICKMANN for individual I-t curves

No. 372 / TR5®

**IEC 60127-3/IV, 250 V, T
Lead Free**

Time-Current Characteristic
Time Lag (T)

Standard
IEC 60127-3/IV

Approvals
VDE
SEMKO
cULus Recognized
METI
CCC

Features

- Lead Free
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shocksafe casing
- Halogen free

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Specifications

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041: Short Leads - Bulk (1000 pcs.)

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Base/Cap: Brown Thermoplastic
Polyamide PA 6.6, UL 94V0
Round Pins: Copper, Sn plated

Operating Temperature

-40 °C to +85 °C (consider de-rating)

Climatic Category

-40 °C/+85 °C/21 days (EN 60068-1,-2-1,-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 (EN 60068-6)
10 - 60 Hz at 0.75 mm amplitude
60 - 2000 Hz at 10 g acceleration

Lead Pull Strength

10 N (EN 60068-2-21)


Solderability

260 °C, ≤ 3 s (Wave+Reflow)
350 °C, ≤ 3 s (Soldering iron)

Soldering Heat Resistance

260 °C, 10 s (IEC 60068-2-20)

Marking

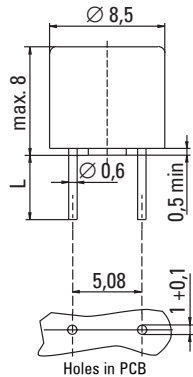
 , 372, 250 V, T, Current Rating, Approvals

Unit Weight

0.77 g (approx.)



Dimensions (mm)






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



Limits for Pre-arcing Time					
Rated Current	1.5 x I _N	2.1 x I _N	2.75 x I _N	4 x I _N	10 x I _N
40 mA ... 6.30 A	> 1 h	< 2 min	400 ms ... 10s	150 ms ... 3 s	20 ms ... 150 ms



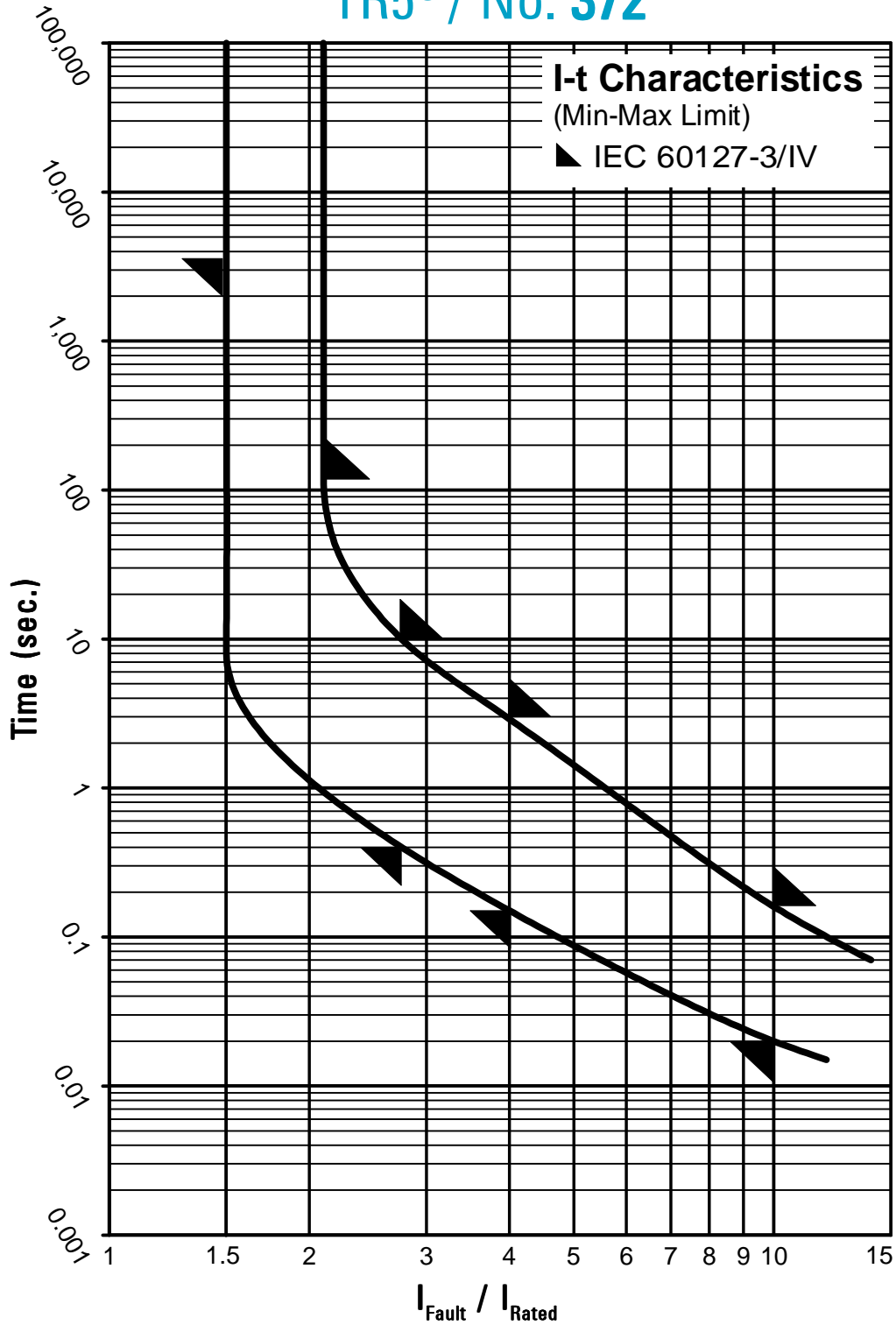
Permissible continuous operating current is ≤ 100 % at ambient temperature of 23 °C (73.4 °F).

Rated Current	Amp Code	Voltage Rating	Breaking Capacity	Voltage Drop 1.0 x I _N  max. (mV)	Power Dissipation 1.5 x I _N  max. (mW)	Melting Integral 10 x I _N  min. (A ² s)	Approvals				
							VDE	SEMKO	cULus	METI	CCC
40mA	0040	250V		900	90	0.009					
50mA	0050	250V		500	70	0.01	•	•	•	p	
63mA	0063	250V		400	80	0.02	•	•	•	•	
80mA	0080	250V		370	100	0.023	•	•	•	•	
100mA	0100	250V		300	110	0.047	•	•	•	•	
125mA	0125	250V		260	120	0.066	•	•	•	•	
160mA	0160	250V		200	130	0.14	•	•	•	•	
200mA	0200	250V		170	140	0.2	•	•	•	•	
250mA	0250	250V		150	150	0.28	•	•	•	•	
315mA	0315	250V	35A / 250 V AC ¹	140	160	0.36	•	•	•	•	
400mA	0400	250V	50-60Hz	130	170	0.9	•	•	•	•	
500mA	0500	250V	cos φ = 1.0	125	180	1.3	•	•	•	•	
630mA	0630	250V		120	200	2.5	•	•	•	•	
800mA	0800	250V		110	220	3.8	•	•	•	•	
1.00A	1100	250V		110	360	5.5	•	•	•	•	
1.25A	1125	250V		95	450	9	•	•	•	•	
1.60A	1160	250V		95	450	14	•	•	•	•	
2.00A	1200	250V		85	600	23	•	•	•	•	
2.50A	1250	250V		80	700	35	•	•	•	•	
3.15A	1315	250V		80	1100	60	•	•	•	•	
4.00A	1400	250V	40A / 250 V AC	75	1200	95	•	•	•	•	
5.00A	1500	250V	50A / 250 V AC	80	1300	94	G	•	•	•	
6.30A*	1630	250V		58	1250	105	G	•	•	•	

¹ Per UL, approved breaking capacity is 50 A at 250 V. * Conducting path min. 0.2 mm² ^G Expert Report p = pending

Order Information	Qty.	Order-Number	Series	Amp Code	Packaging
				372	

TR5[®] / No. 372



Contact WICKMANN for individual I-t curves