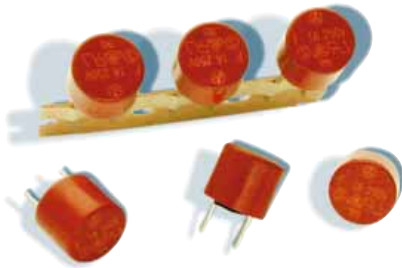
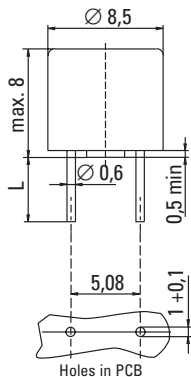




## TR5® / No. 370



## Dimensions (mm)



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

## IEC 60127-3/III, 250V, F

## Time-Current Characteristic

Quick Acting (F)

## Standard

IEC 60127-3/III

## Approvals

VDE: License No. 98941

SEMKO: Certificate No. 9812214

cULus Recognized: File No. E 67006

## Features

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

## WebLinks

## Data Sheet

[www.wickmann.com/products/370.pdf](http://www.wickmann.com/products/370.pdf)

## Approval Certificates

[www.wickmann.com/approvals](http://www.wickmann.com/approvals)

## Time-Current Curve

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[www.wickmann.com/itcurves](http://www.wickmann.com/itcurves)

## Packaging

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[www.wickmann.com/pack](http://www.wickmann.com/pack)

## FaxBack Document # 300

## Specifications

## Packaging

000: Tape/Ammopack (1000 pcs.)

041: Short Leads - Bulk (1000 pcs.)

## Materials

Base/Cap: Brown Thermoplastic

Polyamide PA 6.6, UL 94V0

Round Pins: Copper alloy, tin plated

## Operating Temperature

-40°C to +85°C (consider de-rating)

## Climatic Category

-25°C/+70°C/21 days (EN 60068-1.3)

## 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 - 60Hz at 0.75mm amplitude

60 - 2000Hz at 10g acceleration

## Lead Pull Strength

10N (EN 60068-2-21)

## Solderability

260°C, ≤ 3 sec. (Wave)

350°C, ≤ 1 sec. (Hand)

## Soldering Heat Resistance

260°C, 10 sec. (IEC 60068-2-20)

## Marking

Ⓢ, TR5, 250V, T, Current Rating, Approvals

## Unit Weight

0.77g (approx.)

## Limits for Pre-arcing Time

| Rated Current  | $1.5 \times I_{\text{Rated}}$ | $2.1 \times I_{\text{Rated}}$ | $2.75 \times I_{\text{Rated}}$ | $4 \times I_{\text{Rated}}$ | $10 \times I_{\text{Rated}}$ |
|----------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------|------------------------------|
| 50mA ... 4.00A | > 1h                          | < 30 min                      | 10ms ... 3s                    | 3ms ... 300ms               | < 20ms                       |



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

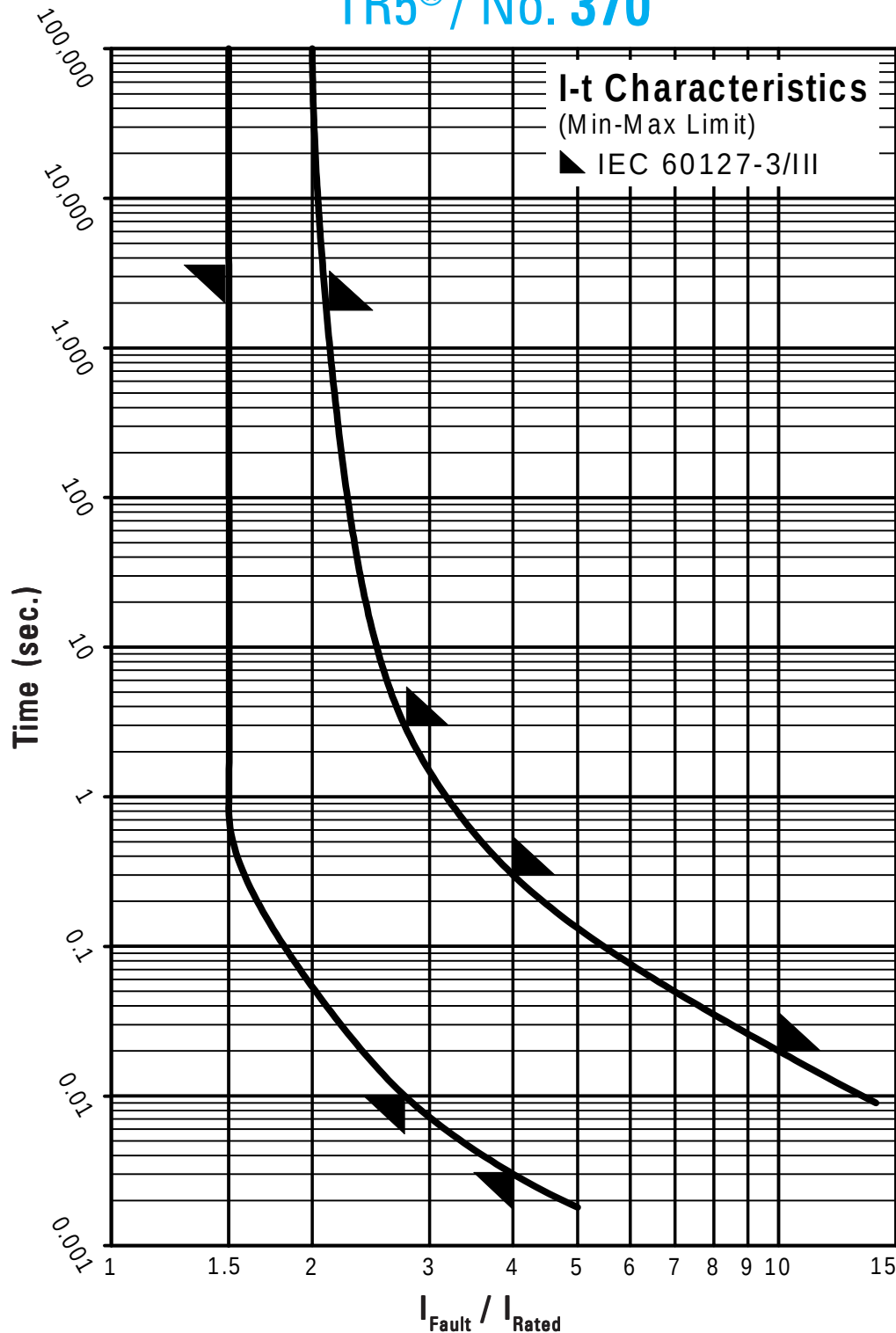
| Rated Current | Amp Code | Voltage Rating | Breaking Capacity         | Voltage Drop<br>$1.0 \times I_{\text{Rated}}$<br>max. (mV) | Power Dissipation<br>$1.5 \times I_{\text{Rated}}$<br>max. (mW) | Melting Integral<br>$10 \times I_{\text{Rated}}$<br>max. (A²s) | Approvals |       |       |
|---------------|----------|----------------|---------------------------|------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-----------|-------|-------|
|               |          |                |                           |                                                            |                                                                 |                                                                | VDE       | SEMKO | cULus |
| 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           | 35A / 250VAC <sup>1</sup> | 380                                                        | 250                                                             | 0.1                                                            | •         | •     | •     |
| 400mA         | 0400     | 250V           | 50-60Hz                   | 120                                                        | 135                                                             | 0.025                                                          | •         | •     | •     |
| 500mA         | 0500     | 250V           | cos φ = 1.0               | 120                                                        | 155                                                             | 0.037                                                          | •         | •     | •     |
| 630mA         | 0630     | 250V           |                           | 115                                                        | 200                                                             | 0.066                                                          | •         | •     | •     |
| 800mA         | 0800     | 250V           |                           | 120                                                        | 310                                                             | 0.11                                                           | •         | •     | •     |
| 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           | 40A / 250VAC              | 80                                                         | 920                                                             | 6.7                                                            | •         | •     | •     |

<sup>1</sup> Per UL, approved breaking capacity is 50 A at 250V.

## Order Information

| Qty. | Order-Number | Series | Amp Code | Packaging |
|------|--------------|--------|----------|-----------|
|      |              | 370    |          |           |

## TR5® / No. 370



Contact WICKMANN for individual I-t curves