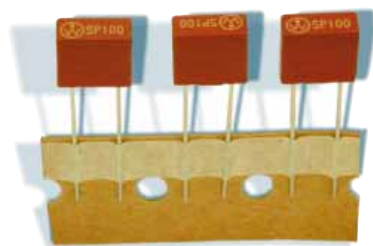
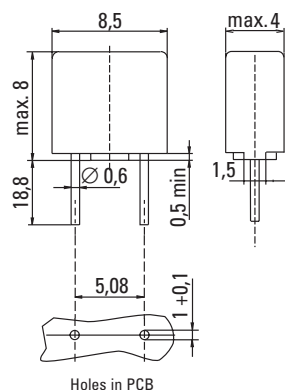




SP / No. 391



Dimensions (mm)



Short Circuit Protector, 65V Specifications

For Short Circuit Protection of Sensitive Electronic Components and Assemblies

Time-Current Characteristic

Quick Acting (F)

Operating Criteria

Maximum continuous current:

$$I_C \geq I_{\text{operating max}} \times F_T \text{ quick acting}$$

Maximum melting integral:

$$I^2_{tSP} < I^2_{t\text{semiconductor (warm)}}$$

Minimum fault current:

$$I_{\text{Fault}} \geq 3 \times I_C$$

Maximum fault current:

$$I_{\text{Fault}} \leq 50A \text{ at } 65VAC/DC$$

Features

For worldwide applications
Reduced PCB space requirements
Highly defined cut-off times
Irreversible physical separation
Low internal resistance
Flame resistant encapsulated casing

WebLinks**Data Sheet**

www.wickmann.com/products/391.pdf

Time-Current Curve

Page 116

www.wickmann.com/itcurves

Packaging

Page 118

www.wickmann.com/pack

FaxBack Document # 312**Packaging**

000: Tape/Ammopack (1400 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

W, Type

Unit Weight

0.60g (approx.)

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

Continuous Current I_C	Type	Amp Code	Voltage Rating	Fault Current max.	Cold Resistance $0.1 \times I_C$ typ. (mΩ)	Power Dissipation $1.0 \times I_C$ max. (mW)	Melting Integral $10 \times I_C$ typ. (A ² s)
125mA	SP 13	0125	65V		3400	190	0.005
160mA	SP 16	0160	65V		2450	210	0.0095
200mA	SP 20	0200	65V		1750	240	0.019
250mA	SP 25	0250	65V		195	52	0.012
315mA	SP 32	0315	65V		155	65	0.018
400mA	SP 40	0400	65V		120	85	0.034
500mA	SP 50	0500	65V	50A / 65VAC/DC 50-60Hz cos φ = 1.0	95	105	0.057
630mA	SP 63	0630	65V		75	135	0.095
800mA	SP 80	0800	65V		58	170	0.16
1.00A	SP100	1100	65V		46	220	0.27
1.25A	SP125	1125	65V		37	270	0.45
1.60A	SP160	1160	65V		29	350	0.77
2.00A	SP200	1200	65V		23	440	0.85
2.50A	SP250	1250	65V		18	550	2.2
3.15A	SP315	1315	65V		14	700	3.7
4.00A	SP400	1400	65V		12	900	6.5

Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		391		

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000801 FaxBack: +1 (404) 699-6176

• Europe Tel: +49 (2302) 662-107

E-mail: sales@wickmann.com

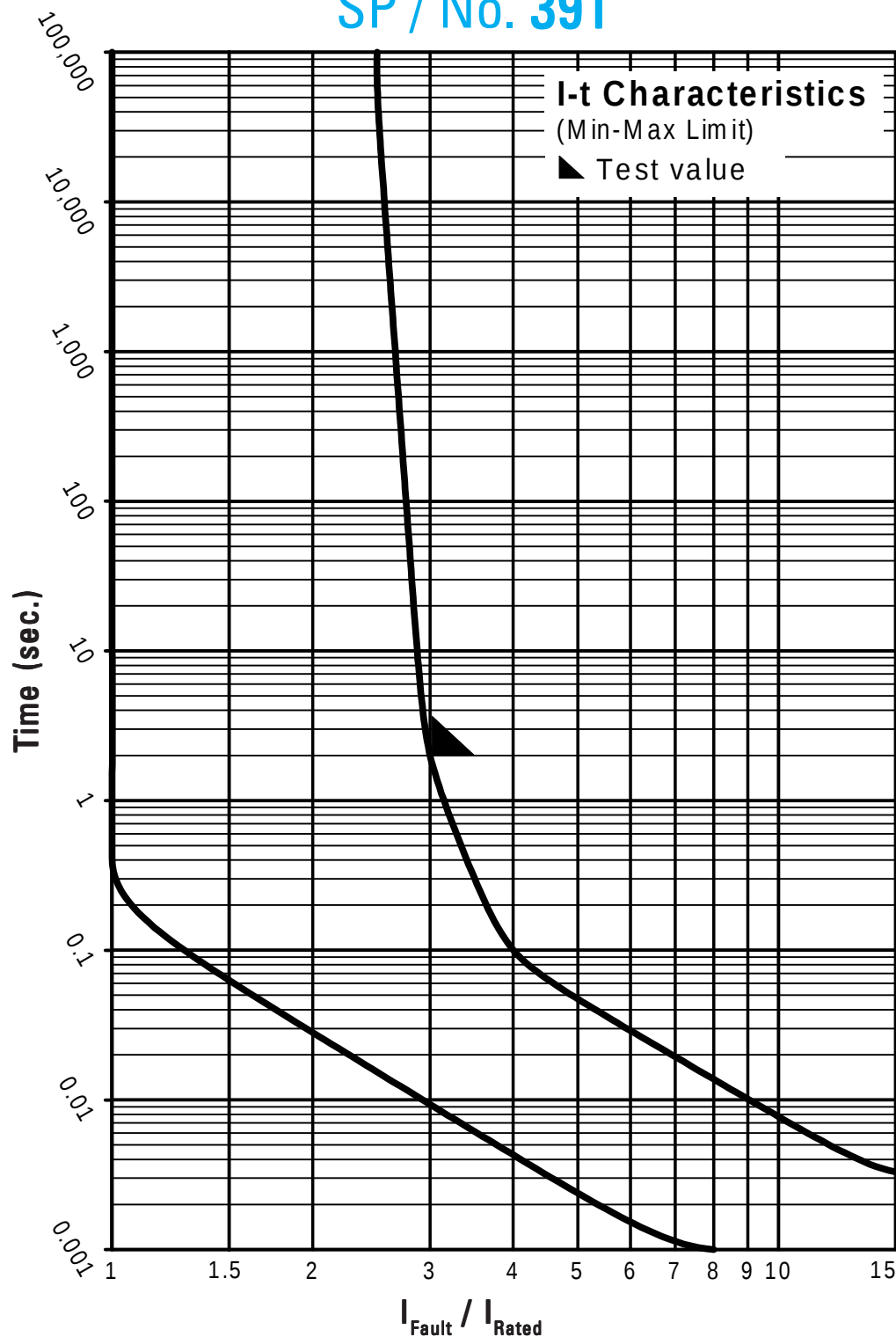
• Americas Tel: +1 (404) 699-7820

E-mail: service@wickmannusa.com

• Asia Tel: +852 26 14-1108

E-mail: sales@wickmann.com.hk

SP / No. 391



Contact WICKMANN for individual I-t curves