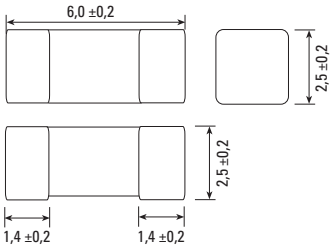
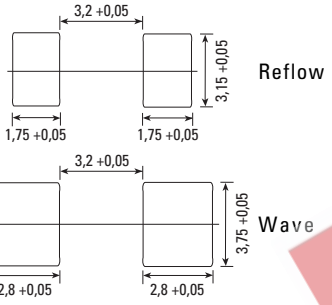
SMQ / No. 417/418

Dimensions (mm)



Pad Layout



UL 248-14, 125V, F

Time-Current Characteristic
Quick Acting (F)

Standard
UL 248-14
CSA C22.2 No. 248.14

Approvals
UL Recognized: File No. E 67006
CSA Certified: File No. LR 702775

Features

Flame resistant ceramic housing
For line or low voltage applications
Low voltage drop
Internationally approved

WebLinks

Data Sheet
www.wickmann.com/products/417.pdf

Approval Certificates
www.wickmann.com/approvals

Time-Current Curve
Page 70
www.wickmann.com/itcurves

Packaging
Page 118
www.wickmann.com/pack

FaxBack Document # 325

Specifications

Packaging
000: Blister Tape (1000 pcs.)

Materials
Housing: Ceramic
Element: Wire
Terminals: Copper alloy, tin plated

Operating Temperature
-55°C to +125°C (consider de-rating)

Stock Conditions
+10°C to +60°C
relative humidity ≤ 75% yearly average,
without dew, maximum value for 30 days-95%

Vibration Resistance
2 hrs. in each axis
10 - 55 - 10Hz at 1.5mm amplitude

Solderability
235°C, 3 sec. (IEC 60068-2-58)

Soldering Heat Resistance
260°C, 10 sec. (IEC 60068-2-58)

Minimum Cross Section, Copper
Conducting path - 0.1mm² (417) / 0.2mm² (418)
Path thickness - 0.035mm (417) / 0.07mm (418)

Mounting
Solder the fuse with the marked side facing up
Avoid circuit traces below the fuse

Marking
Ⓦ, Current Rating

Unit Weight
0.23g (approx.)

Limits for Pre-arcing Time

Rated Current	2.0 x I_{Rated}	2.0 x I_{Rated} Ⓦ
400mA ... 10.00A	< 60s	< 5s

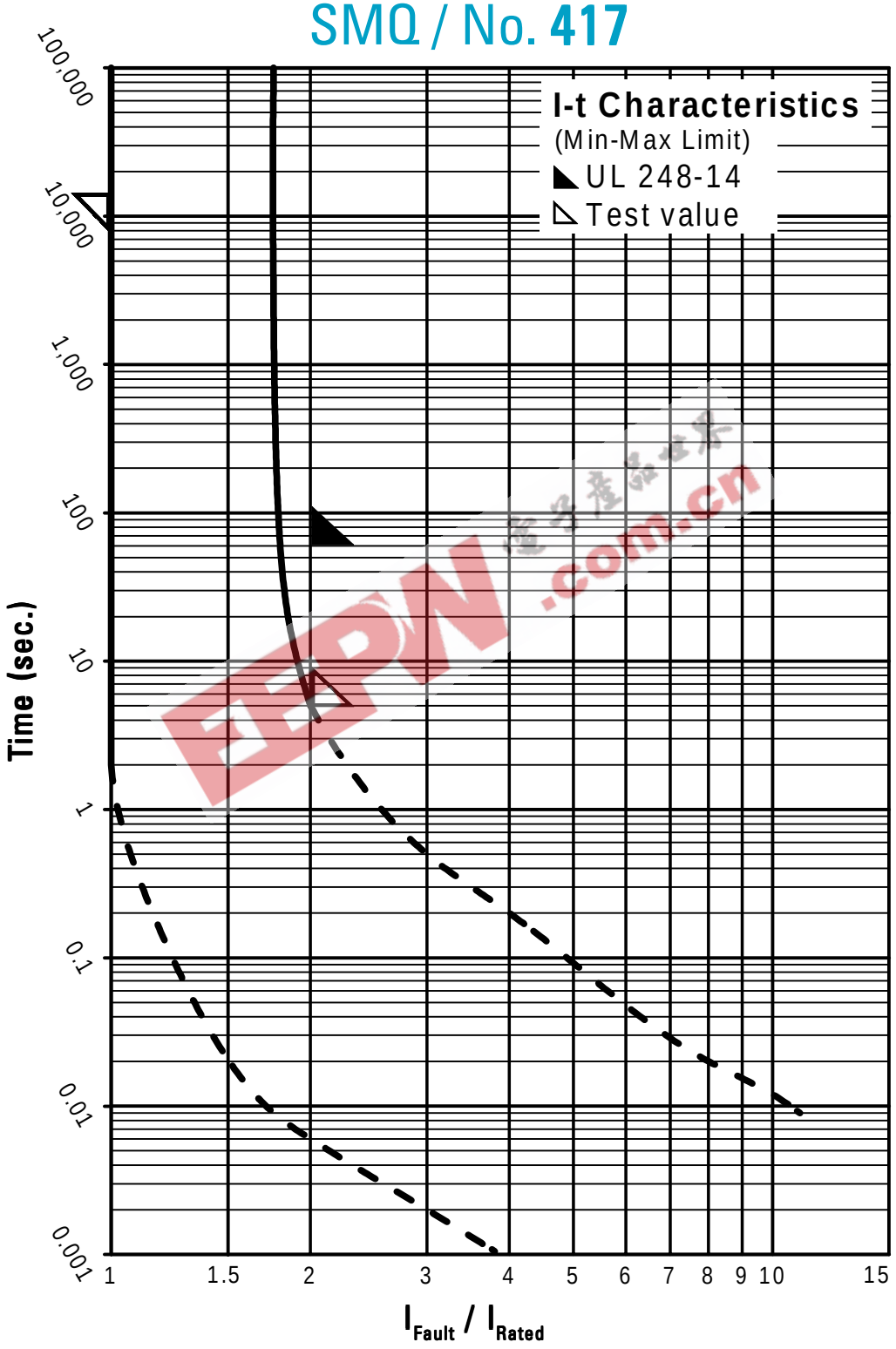
Permissible continuous operating current is ≤ 70% at ambient temperature of 23°C (73.4°F).

Rated Current **No. 417**	Amp Code	Voltage Rating	Breaking Capacity	Voltage Drop 1.0 x I_{Rated} Ⓦ max. (mV)	Power Dissipation 1.0 x I_{Rated} Ⓦ max. (mW)	Melting Integral 10 x I_{Rated} Ⓦ max. (A^2s)	Approvals UR	Approvals CSA
400mA	0400	125V		440	180	0.031	•	•
500mA	0500	125V		420	210	0.036	•	•
630mA	0630	125V		400	255	0.05	•	•
800mA	0800	125V		350	280	0.17	•	•
1.00A	1100	125V	50A / 125VAC	200	200	0.2	•	•
1.25A	1125	125V	50A / 60VDC	195	245	0.31	•	•
1.60A	1160	125V	50-60Hz	190	305	0.53	•	•
2.00A	1200	125V	cos φ = 1.0	185	370	0.95	•	•
2.50A	1250	125V		180	450	1.5	•	•
3.15A	1315	125V		175	555	2.6	•	•
4.00A	1400	125V		170	680	4.5	•	•
5.00A	1500	125V		150	750	8.1	•	•
No. 418		**for short circuit back-up protection**						
6.30A	1630	75V	50A / 75VAC	100	630	14	•	•
7.00A	1700	75V	50A / 60VDC	95	665	16	•	•
8.00A	1800	75V	50-60Hz	90	720	18	•	•
10.00A	2100	75V	cos φ = 1.0	85	850	24	•	•

Order Information

Qty.	Order-Number	Series	Amp Code	Packaging

SMQ / No. 417



Contact WICKMANN for individual I-t curves