

## Excellent Integrated System Limited

Stocking Distributor

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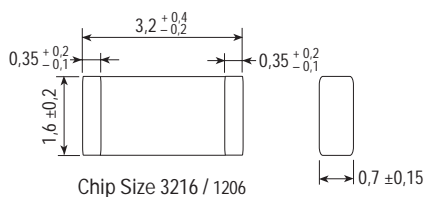
For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

**SURFACE MOUNT FUSES**

**3216 / No. 441**

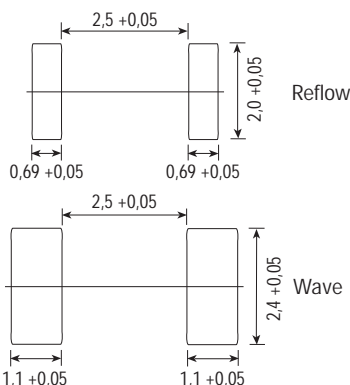


**Dimensions (mm)**



**Pad Layout**

Solder the fuse with the marked side facing up



**UL 248-14, 32V, F**

**Time-Current Characteristic**

Quick Acting (F)

**Standard**

UL 248-14  
 CSA C22.2 No. 248.14

**Approvals**

cULus Recognized: File No. E 67006

**Features**

- Reliable thin film melting element
- Flame resistant ceramic substrate
- Low voltage drop
- Reduced PCB space requirements
- Internationally approved
- Stable thermal characteristics under varying operating temperatures

**WebLinks**

**Data Sheet**

www.wickmann.com/products/441.pdf

**Approval Certificates**

www.wickmann.com/approvals

**Time-Current Curve**

Page 69  
 www.wickmann.com/itcurves

**Packaging**

Page 119  
 www.wickmann.com/pack

**Specifications**

**Packaging**

000: Blister Tape (3000 pcs.)

**Materials**

Housing: Ceramic substrate  
 Element: Thin film  
 Terminals: Tinned, metallized

**Operating Temperature**

-40°C to +85°C (consider de-rating)

**Climatic Category**

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

**Solderability**

235°C, 2 sec. (IEC 60068-2-58)

**Soldering Heat Resistance**

260°C, 10 sec. (IEC 60068-2-58)

**Recommended Solder Glue**

Grace Amicon 125 F

**Minimum Cross Section, Copper**

Conducting path - 0.1mm<sup>2</sup>  
 Thickness - 0.035mm

**Mounting**

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


**Marking**

Current Rating

**Unit Weight**




0.04g (approx.)

**Limits for Pre-arcing Time**

Rated Current	2.5 x I <sub>Rated</sub> 
80mA ... 500mA	< 5s



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

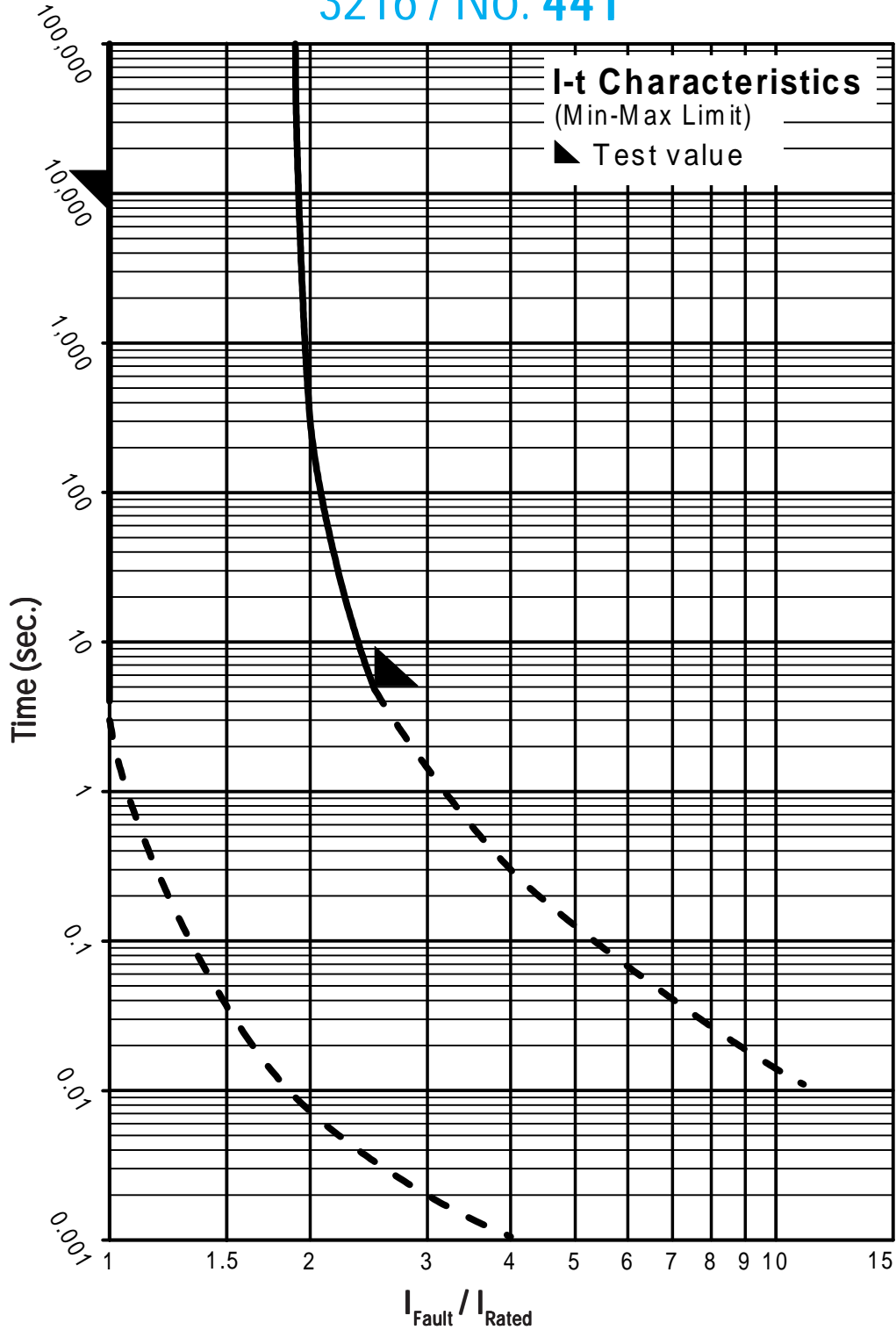
Rated Current <sup>1</sup>	Amp Code	Voltage Rating	Breaking Capacity	Voltage Drop 1.0 x I <sub>Rated</sub> typ. (mV) 	Power Dissipation 1.0 x I <sub>Rated</sub> max. (mW) 	Melting Integral 10 x I <sub>Rated</sub> max. (A <sup>2</sup> s) 	Approvals cULus
80mA	0080	32V		455	52	0.00004	•
125mA	0125	32V		402	75	0.00007	•
160mA	0160	32V	50A / 32VAC/DC	429	96	0.0001	•
200mA	0200	32V	50-60Hz cos φ = 1.0	430	120	0.0005	•
315mA	0315	32V		222	110	0.0004	•
375mA	0375	32V		220	120	0.0009	•
500mA	0500	32V		210	125	0.002	•

<sup>1</sup> For higher current ratings, see No. 443.

**Order Information**

Qty.	Order-Number	Series	Amp Code	Packaging
		441		

## 3216 / No. 441



Contact WICKMANN for individual I-t curves