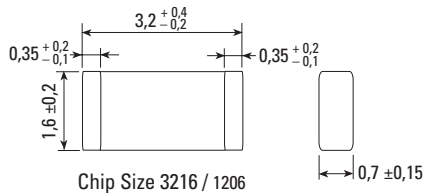


3216 / No. 441

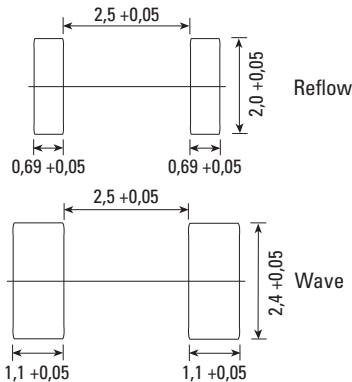


Dimensions (mm)



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

FaxBack Document # 321

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 - 0.1mm²
 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	$2.5 \times I_{\text{Rated}}$ 
80mA ... 500mA	< 5s



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

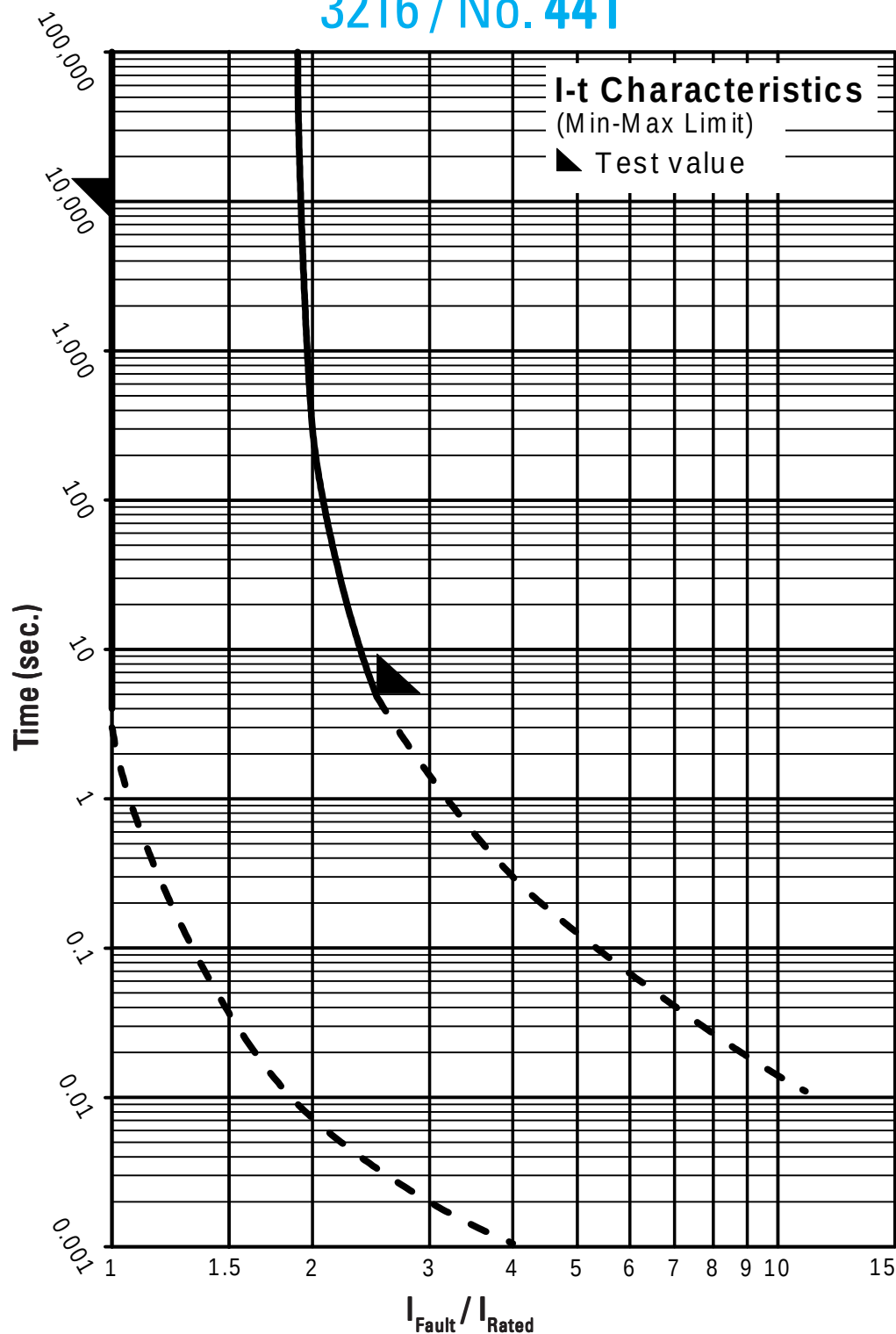
Rated Current ¹	Amp Code	Voltage Rating	Breaking Capacity	Voltage Drop $1.0 \times I_{\text{Rated}}$ typ. (mV)	Power Dissipation $1.0 \times I_{\text{Rated}}$ max. (mW)	Melting Integral $10 \times I_{\text{Rated}}$ max. (A ² s)	Approvals cULus
80mA	0080	32V	50A / 32VAC/DC 50-60Hz cos φ = 1.0	455	52	0.00004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

¹ 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