ADC

High voltage 1/4" x 1-1/4" fast-acting ceramic tube fuse

Product features

- High voltage ceramic tube fuse
- Compact 3AB footprint:
  ¼" x 1 ¼" (6.3 x 32 mm)
- Fast-acting performance
- 500 Vac/Vdc rating
- Cartridge and axial lead versions available
- Very high interrupting ratings to help safely protect against dangerous high fault currents
- Fuse accessories (cartridge version):
  HVP Panel mount fuse holder (480V)
  HVI In-line fuse holder (600V)
  S-8000 Panel mount fuse block (600V)
  1Axxxx (up to 600V) fuse clips

Agency information

- cURus Recognition file: E19180

Applications

- Industrial control panels
- Motor control - UL 508A panels
- Uninterruptible power supplies (UPS)
- Variable frequency drives
- Energy storage and battery systems
- High voltage power conversion

Environmental compliance

Pb HALOGEN HF FREE RoHS

Ordering part number

BK-ADC-V2-15-R

- Packaging prefix
- Family name
- Option code (V = leaded)
- Ampere rating
- RoHS compliance

Packaging prefix

- **BK-**
  100 pieces in polybag

Option code

- **-V2**
  Axial leads with 50.8 length– copper tinned wire with nickel plated brass over caps

Powering Business Worldwide

Electrical characteristics

Amp Rating	1.5 In maximum	2.0 In maximum	3.0 In maximum
12 A - 30 A	30 minutes	5 minutes	10 seconds

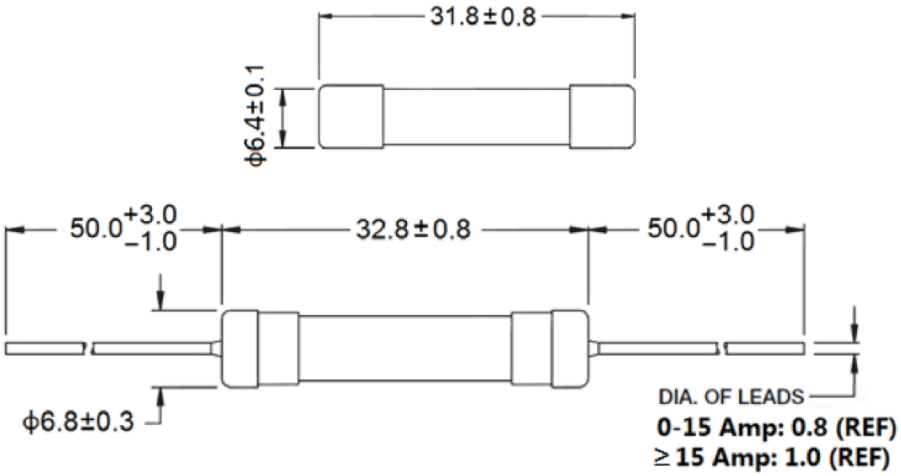
Product specifications

Part number	Current rating (A)	Voltage rating (Vac/Vdc)	Interrupting rating @ rated voltage (A) Vac	(A) Vdc	Typical resistance[1] (mΩ)	Typical voltage drop[3] (mV)	Typical melting[2] I^2t (A^2s)
ADC-12-R	12	500	30 KA @ 500	20 KA @ 500	12.3	310	120
ADC-15-R	15	500	30 KA @ 500	20 KA @ 500	8.0	205	50
ADC-20-R	20	500	30 KA @ 500	20 KA @ 500	5.5	210	88
ADC-25-R	25	500	30 KA @ 500	20 KA @ 500	4.6	245	125
ADC-30-R	30	500	30 KA @ 500	20 KA @ 500	3.7	255	270

1. Typical resistance measured at <10% of rated current at +25 °C
2. Typical melting I^2t measured at 10x of rated current
3. Typical voltage drop measured at +25 °C and rated current

Dimensions- mm

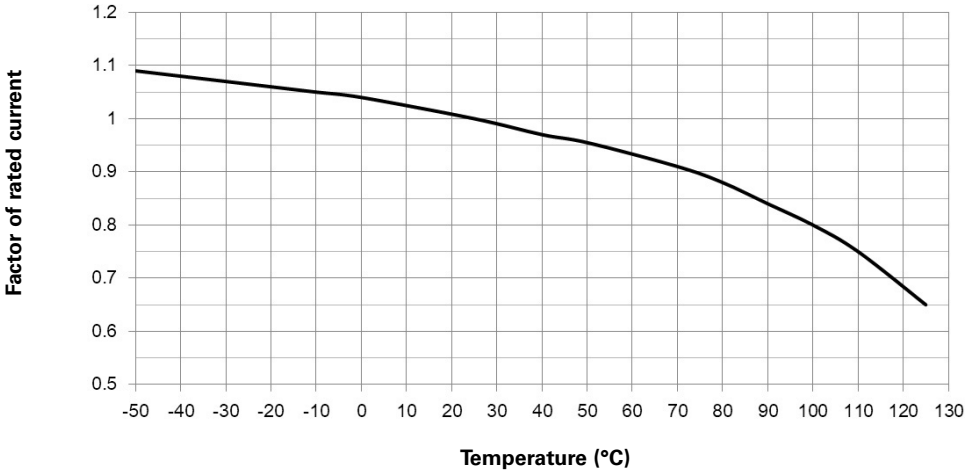
Drawing not to scale



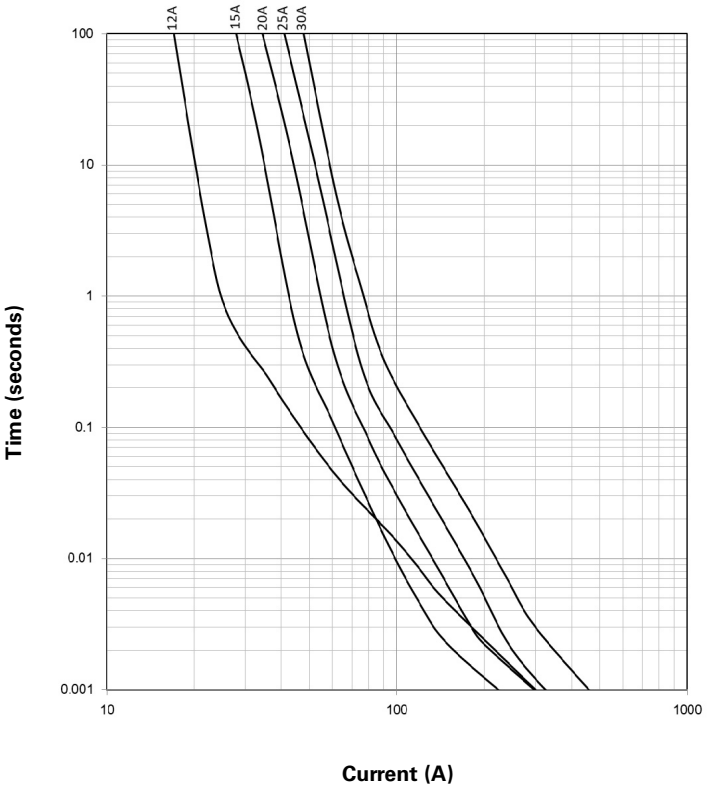
General specifications

Operating temperature: -50 °C to +125 °C with proper correction factor applied
Terminal strength: MIL-STD-202G, Method 211A, Test Condition A, Pull force 10N/10S
Thermal shock: MIL-STD-202, Method 107G: -65 °C to +125 °C, 5 cycles
Mechanical vibration: MIL-STD-202 Method 201
Humidity: MIL-STD-202G, Method 103B, Test Condition A: 95% RH, +40 °C, 240 hours
Solderability: MIL-STD-202 Method 208

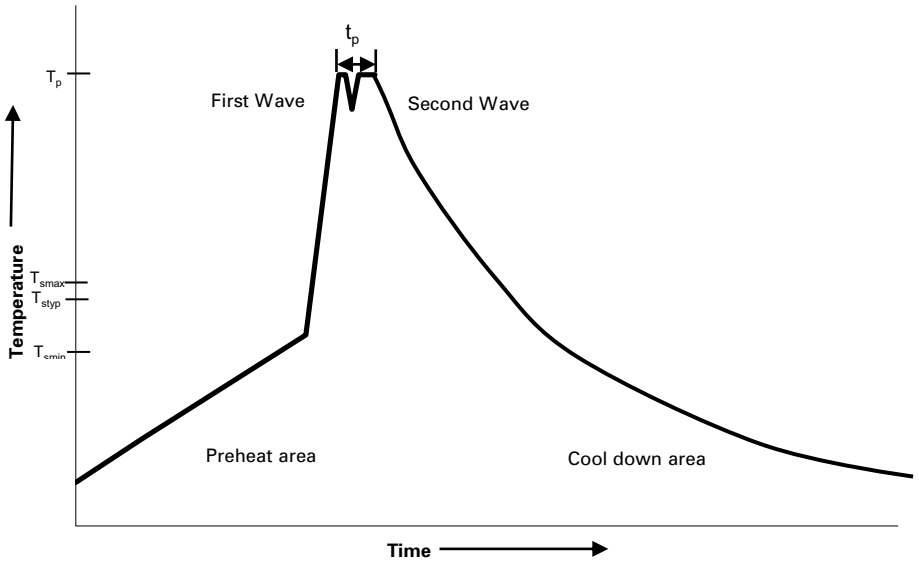
Temperature derating curve



Time vs. current curve



Wave solder profile (Axial lead only)



Reference EN 61760-1:2006

Profile feature		Standard SnPb solder	Lead (Pb) free solder
Preheat	• Temperature min. (T_{smin})	100 °C	100 °C
	• Temperature typ. (T_{styp})	120 °C	120 °C
	• Temperature max. (T_{smax})	130 °C	130 °C
	• Time (T_{smin} to T_{smax}) (t_s)	70 seconds	70 seconds
Δ preheat to max Temperature		150 °C max.	150 °C max.
Peak temperature (T_p)*		235 °C – 260 °C	250 °C – 260 °C
Time at peak temperature (t_p)		10 seconds max 5 seconds max each wave	10 seconds max 5 seconds max each wave
Ramp-down rate		~ 2 K/s min ~3.5 K/s typ ~5 K/s max	~ 2 K/s min ~3.5 K/s typ ~5 K/s max
Time 25 °C to 25 °C		4 minutes	4 minutes

Manual solder

+350 °C (4-5 seconds by soldering iron), generally manual/hand soldering is not recommended.

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Printed in USA
Publication No. ELX1122 BU-ELX21130
December 2021