



**THE DATASHEET OF
PV-6A10-T**



10x38mm photovoltaic fuses — 1000 Vdc, 1-20 A



Catalog symbols:

- PV-(amp)A10F (cylindrical)
- PV-(amp)A10-T (bolt mounting)
- PV-(amp)A10-1P (single PCB tab)
- PV-(amp)A10-2P (dual PCB tab)
- PV-(amp)10F-CT (in-line with crimp terminals)

Description:

Eaton's Bussmann™ series of 10x38mm, 1000Vdc PV fuses are for protecting and isolating photovoltaic strings. The fuses are specifically designed for use in PV systems with extreme ambient temperature, high cycling and low fault current conditions (reverse current, multi-array fault) string arrays.

Four styles available for application flexibility.

Basic fuse size

- 10x38 mm

Ratings

- Volts 1000 Vdc
- Amps 1-20 A
- Interrupting rating 50 kA
- Time constant: - 1-3ms

Operating class

- gPV and UL PV fuse links

PV fuse coordination

- With thin film cells and 4", 5" and 6" crystalline silicon cells

Agency information

- UL® Listed to 248-19*, Guide JFGA, File E335324
- IEC® 60269-6 (gPV)
- CSA® File 53787, Class 1422-30 (1-15 A), 20 A pending
- CCC®
- RoHS compliant

* Except crimp terminal version that is UL Recognized to UL 248-19, Guide JFGA2, File E335324.

Packaging (carton quantity)

- PV-(amp)A10F, PV-(amp)A10T and PV-(amp)A10_P: 10
- PV-(amp)10F-CT in-line: 210

Features:

- Meets UL and IEC photovoltaic standards for global acceptance
- Low watts loss performance for energy efficiency
- Low temperature rise performance for more precise sizing
- In-line crimp terminal version is easy to apply in wire harness construction

Typical applications:

- Combiner boxes
- Inverters
- PV wire harnesses



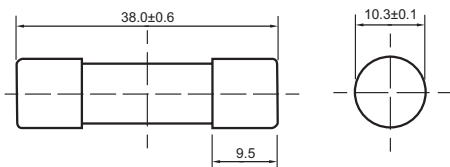
Powering Business Worldwide

Specifications:

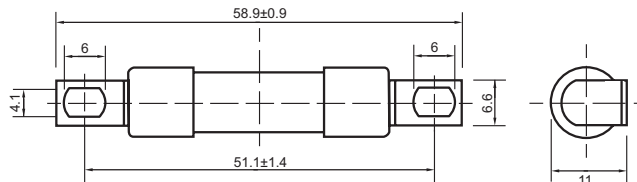
Catalog numbers / configurations					Current rating (amps)	Voltage rating (Vdc)	Energy integrals I ² t (A ² s)		Watts loss (W)	
Cylindrical ferrule	Bolt fixing	PCB fixing		In-line with crimp terminal			Pre-arcing	Total @ 1000 V	0.8I _n	I _n
		Single pin	Double pin							
PV-1A10F	PV-1A10-T	PV-1A10-1P	PV-1A10-2P	PV-1A10F-CT	1	1000	0.15	0.4	0.8	1.5
PV-2A10F	PV-2A10-T	PV-2A10-1P	PV-2A10-2P	PV-2A10F-CT	2	1000	1.2	3.4	0.6	1.0
PV-3A10F	PV-3A10-T	PV-3A10-1P	PV-3A10-2P	PV-3A10F-CT	3	1000	4	11	0.8	1.3
PV-3-5A10F	PV-3-5A10-T	PV-3-5A10-1P	PV-3-5A10-2P	PV-3-5A10F-CT	3.5	1000	6.6	18	0.9	1.4
PV-4A10F	PV-4A10-T	PV-4A10-1P	PV-4A10-2P	PV-4A10F-CT	4	1000	9.5	26	1.0	1.5
PV-5A10F	PV-5A10-T	PV-5A10-1P	PV-5A10-2P	PV-5A10F-CT	5	1000	19	50	1.0	1.6
PV-6A10F	PV-6A10-T	PV-6A10-1P	PV-6A10-2P	PV-6A10F-CT	6	1000	30	90	1.1	1.8
PV-8A10F	PV-8A10-T	PV-8A10-1P	PV-8A10-2P	PV-8A10F-CT	8	1000	3	32	1.2	2.1
PV-10A10F	PV-10A10-T	PV-10A10-1P	PV-10A10-2P	PV-10A10F-CT	10	1000	7	70	1.2	2.3
PV-12A10F	PV-12A10-T	PV-12A10-1P	PV-12A10-2P	PV-12A10F-CT	12	1000	12	120	1.5	2.7
PV-15A10F	PV-15A10-T	PV-15A10-1P	PV-15A10-2P	PV-15A10F-CT	15	1000	22	220	1.7	2.9
PV-20A10F	PV-20A10-T	PV-20A10-1P	PV-20A10-2P	PV-20A10F-CT	20	1000	34	350	2.1	3.6

Dimensions/configurations - mm:

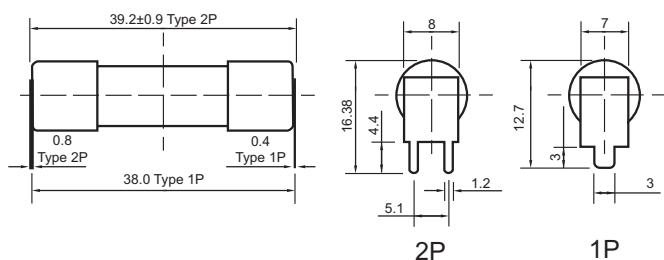
Cylindrical PV-(amp)A10F



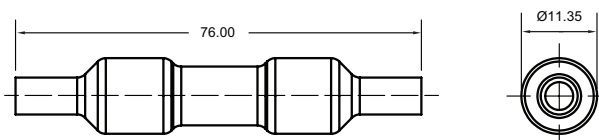
Cylindrical with bolt fixings PV-(amp)A10-T



Cylindrical with PCB tabs PV-(amp)A10-1P (single pin), PV-(amp)A10-2P (double pin)



In-line with crimp terminals PV-(amp)A10F-CT



The in-line crimp terminal version can be electrically insulated with customer supplied overmolding or approved heat-shrink.

Operating temperature range

- 40°C to 90°C

Wire range and type

- Single conductor, 12-10AWG 75°C/90°C Cu stranded PV

Overmolding temperature parameters

- 233°C for 180 sec Max

Terminals

- Crimp terminal for 12-10AWG PV copper conductors

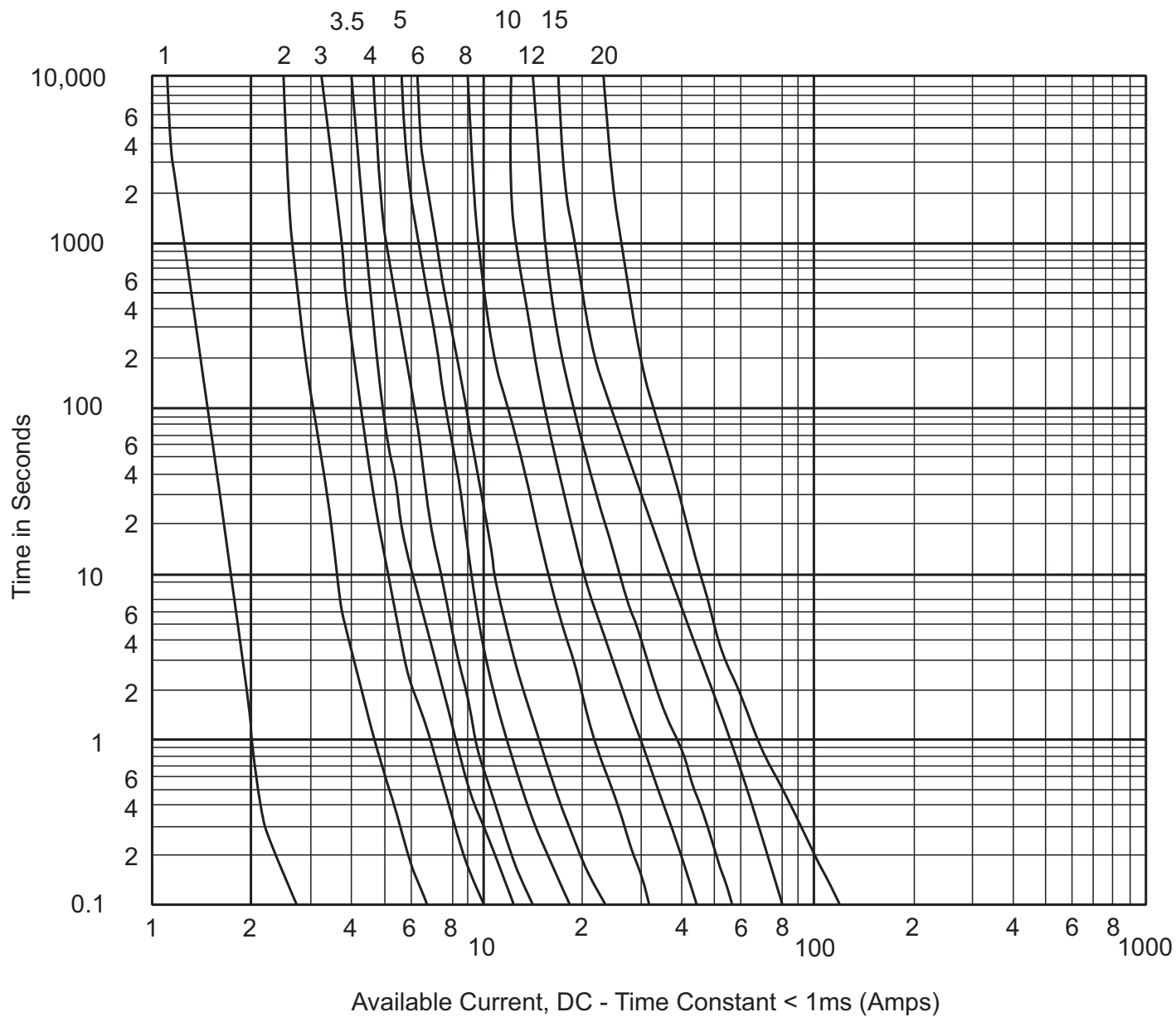
Recommended tools

- Sta-Kon® terminal crimping tool, catalog number ERG4002

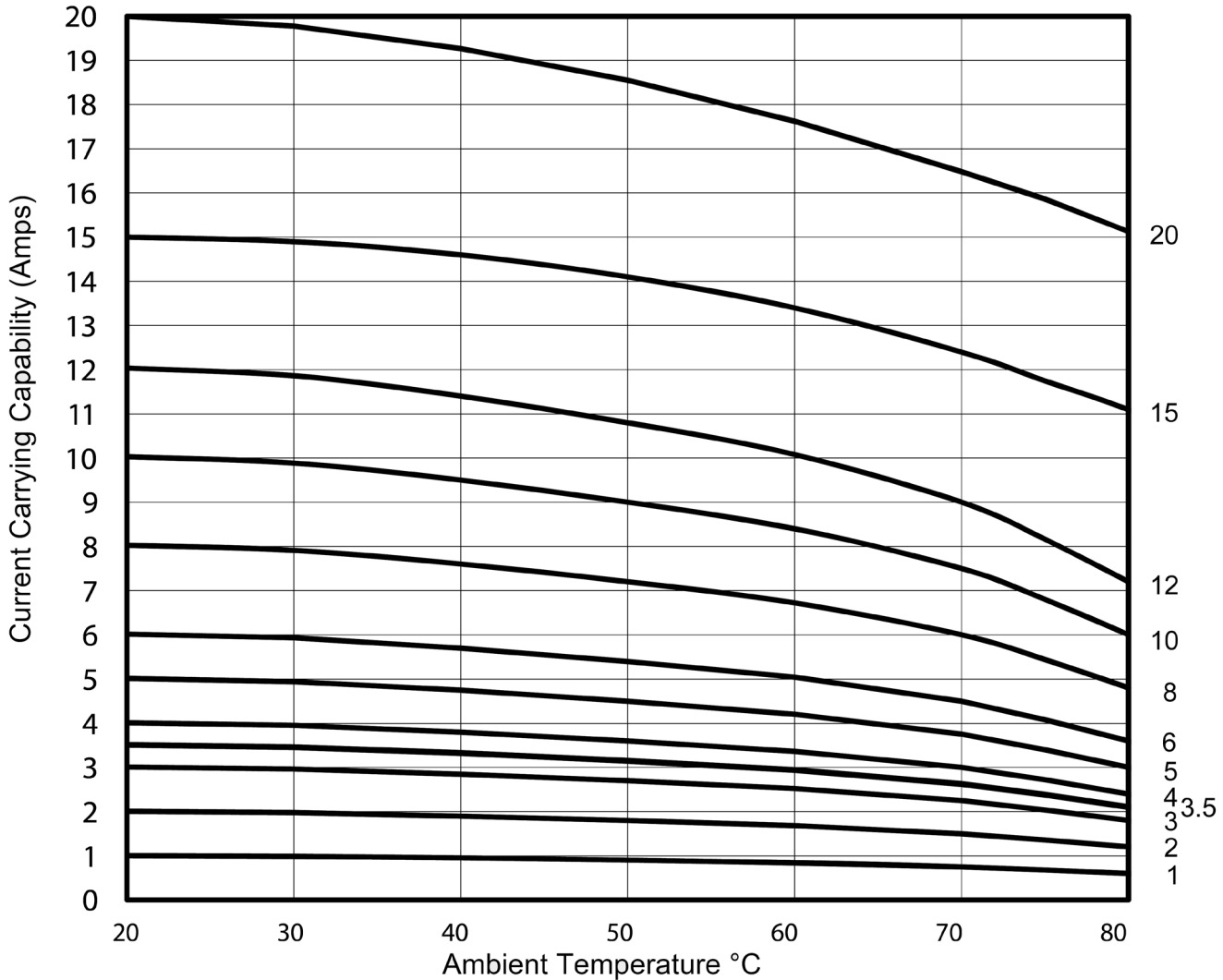
Recommended fuse blocks, holders and fuseclips:

Cat. no.	Description and date sheet/publication no.
BPVM- <u> </u>	Modular PV fuse block with optional covers 10265
CHPV1IU	1-Pole modular fuse holder with indication 10430
CHPV1U	1-Pole modular fuse holder without indication 10430
CHPV2IU	2-Pole modular fuse holder with indication 10430
CHPV2U	2-Pole modular fuse holder without indication 10430
1A3400- <u> </u>	PCB Fuseclips 2131
HPV-DV- <u> </u> A	In-line fuse holder assembly 2157

Time-current characteristics



Temperature derating curves



All configurations.

No additional derating is required for PV fuse links installed in ganged modular fuse holders without spacing between units, provided that the rating used is $>1.56 \times I_{sc}$.

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Printed in USA
Publication No. 10121 — BU-SB14107
September 2017

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