

10x38mm photovoltaic fuses 1000Vdc, 1-30A



Catalog symbols / mounting style:

- 1-20A*
 - 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)
- 25-30A** PV10M-(amp) (cylindrical)

* Ceramic tube construction.
** Melamine tube construction.

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.

Specifications:

Basic fuse size

- 10x38mm

Ratings

- Volts 1000Vdc
- Amps 1-30A
- Interrupting Rating
 - 50kA (1-20A)
 - 20kA (25-30A)
- 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 2579*, Guide JFGA, File E335324
- IEC® 60269-6 (gPV)
- CSA® File 53787, Class 1422-30 (1-15A), 20-30A pending
- CCC® (1-20A) (25-30A pending)
- RoHS compliant

* Except crimp terminal version that is UL Recognized to UL 2579, Guide JFGA2, File E335324.

Packaging (carton quantity)

- PV-(amp)A10F, PV-(amp)A10T, PV-(amp)A10-_P and PV10M-(amp): 10
- PV-(amp)10F-CT & PV10M-(amp)-CT in-line: 180

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
- PV wire harnesses



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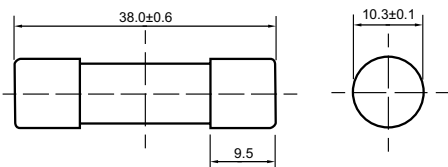
Specifications:

Catalog numbers / configurations										
Cylindrical ferrule	PCB fixing				Current rating (amps)	Voltage rating (Vdc)	Energy integrals I ² t (A ² s)		Watts loss (W)	
	Bolt fixing	Single pin	Double pin	In-line with crimp terminal			Pre-arcing	Total @ 1000V	0.8I _n	I _n
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
PV10M-25	—	—	—	—	25	1000	325	1860*	1.65	2.91
PV10M-30	—	—	—	—	30	1000	536	3360*	1.65	3.31

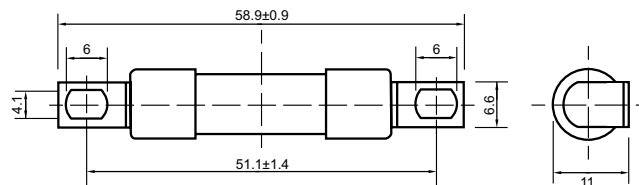
* Total I²t @ 20kA IR.

Dimensions/configurations - mm:

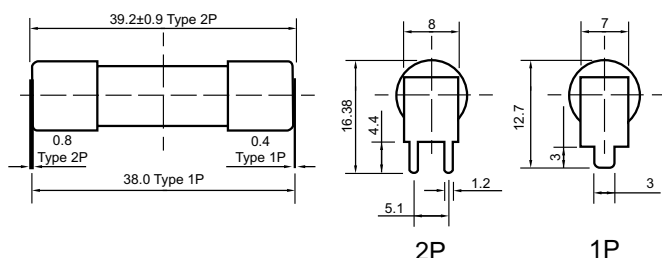
Cylindrical PV-(amp)A10F, PV10M-(amp)



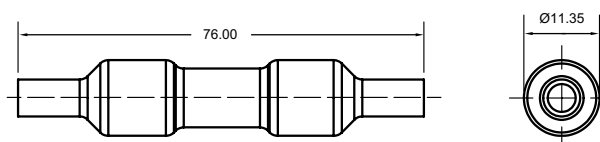
Cylindrical with bolt fixings PV-(amp)A10-T



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 (1-20A)



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

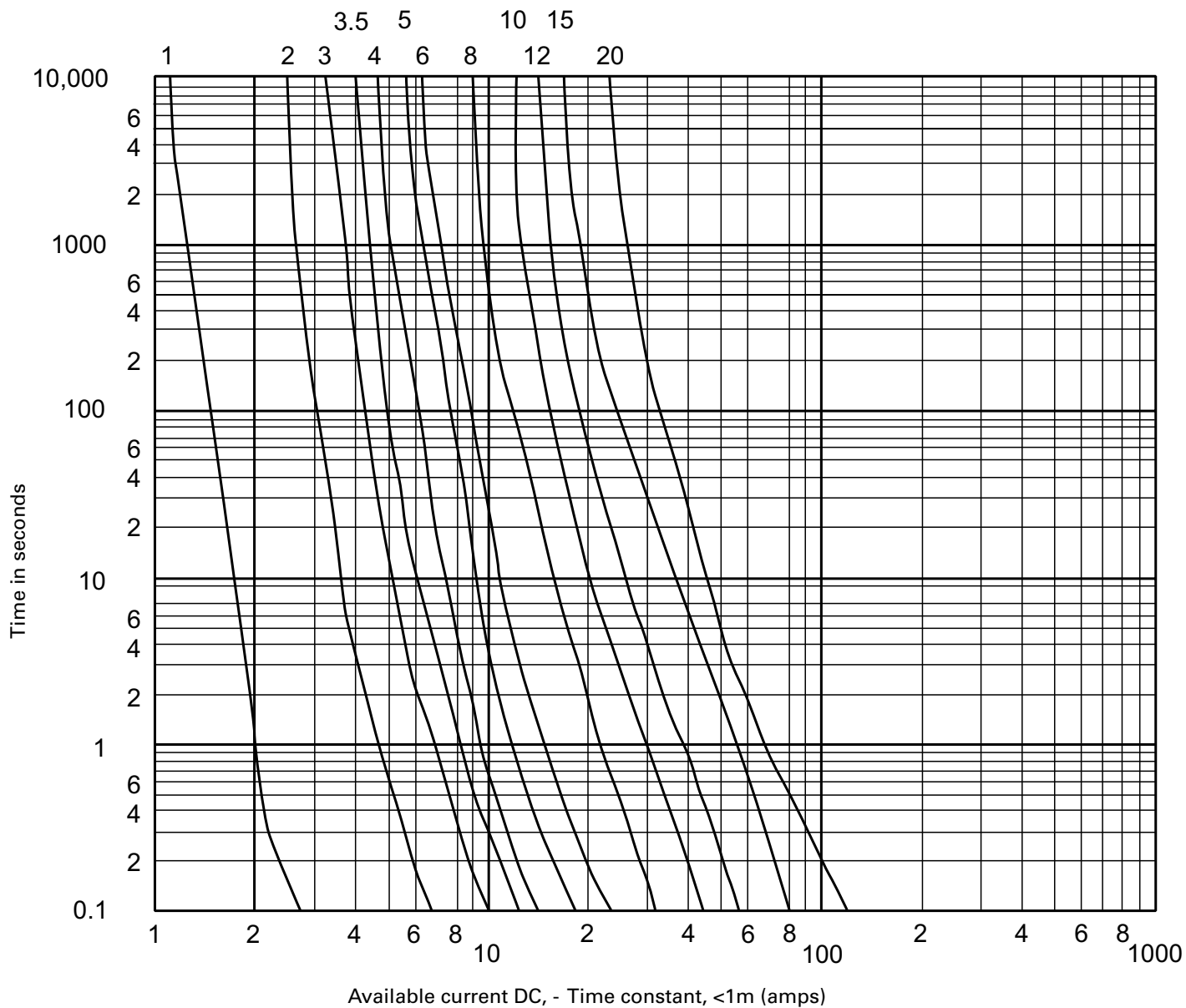
Recommended tools

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

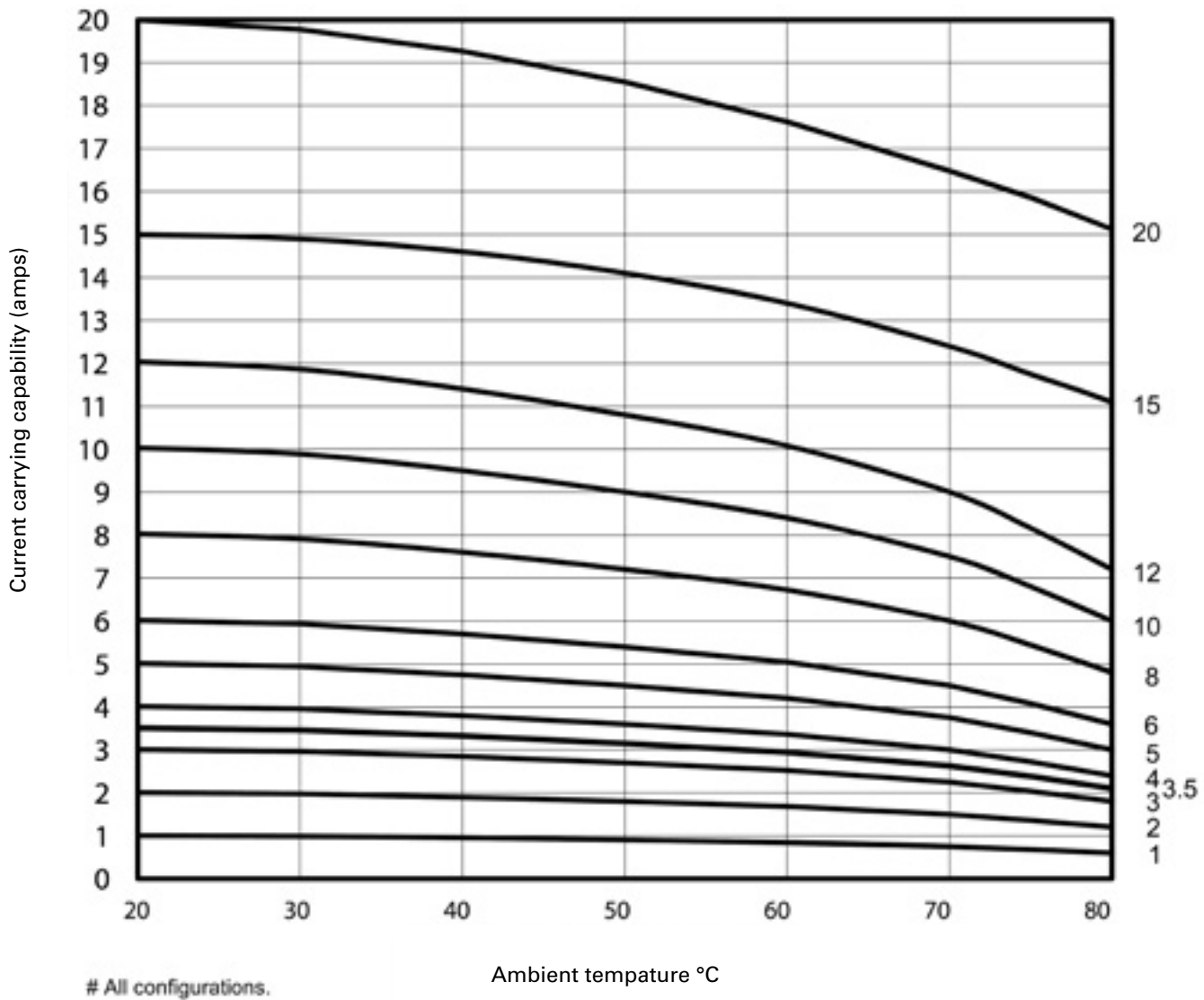
Recommended fuse holders and fuseclips:

Part number	Description and date sheet/brochure No.
CHPV1IU	1-Pole modular fuse holder with indication 3185
CHPV1U	1-Pole modular fuse holder without indication 3185
CHPV2IU	2-Pole modular fuse holder with indication 3185
CHPV2U	2-Pole modular fuse holder without indication 3185
1A3400_	PCB Fuseclips 2131
HPV-DV_A	In-line fuse holder assembly 2157

Time-current characteristics — 1-20A:

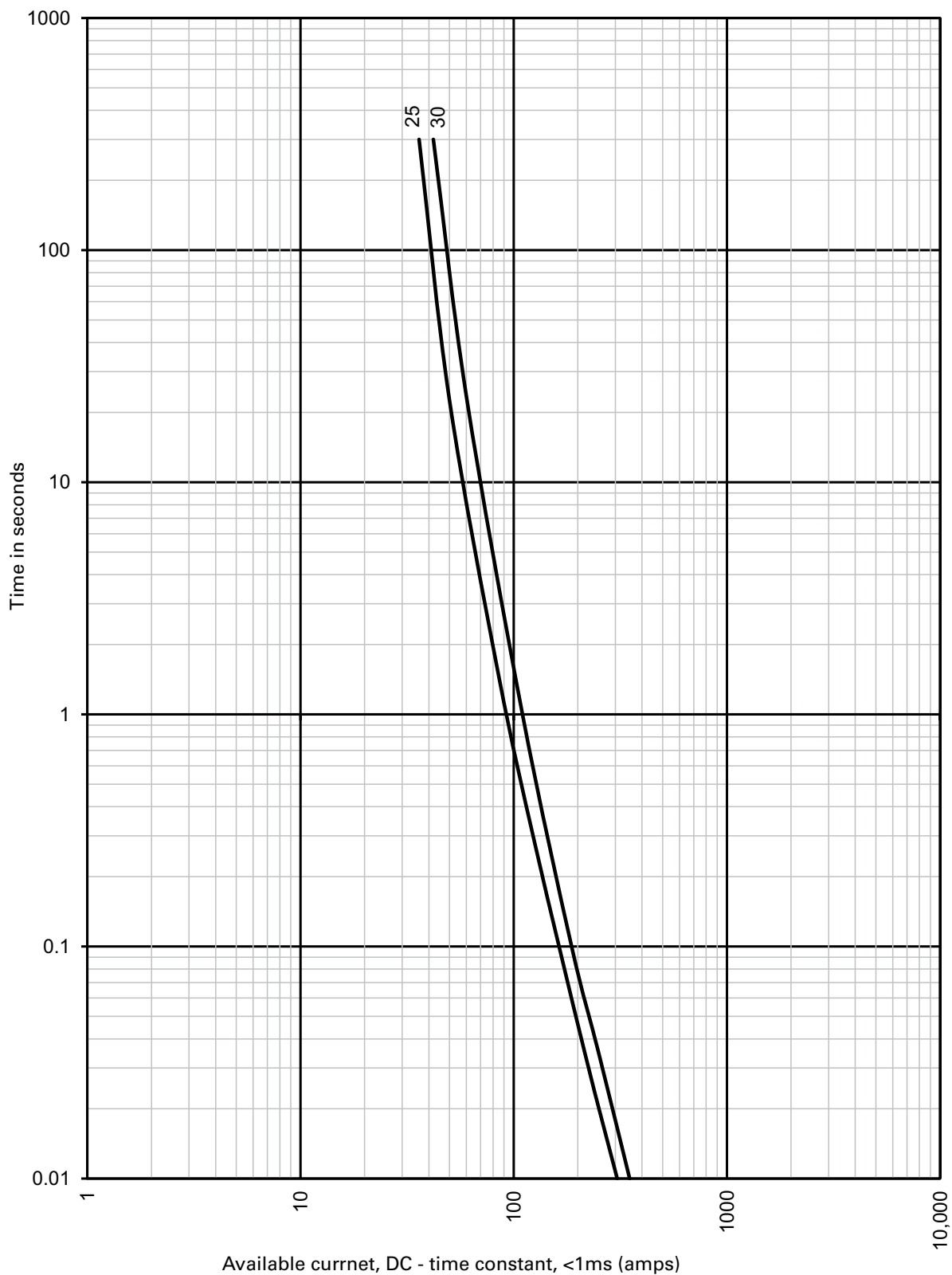


Temperature derating curves — 1-20A:

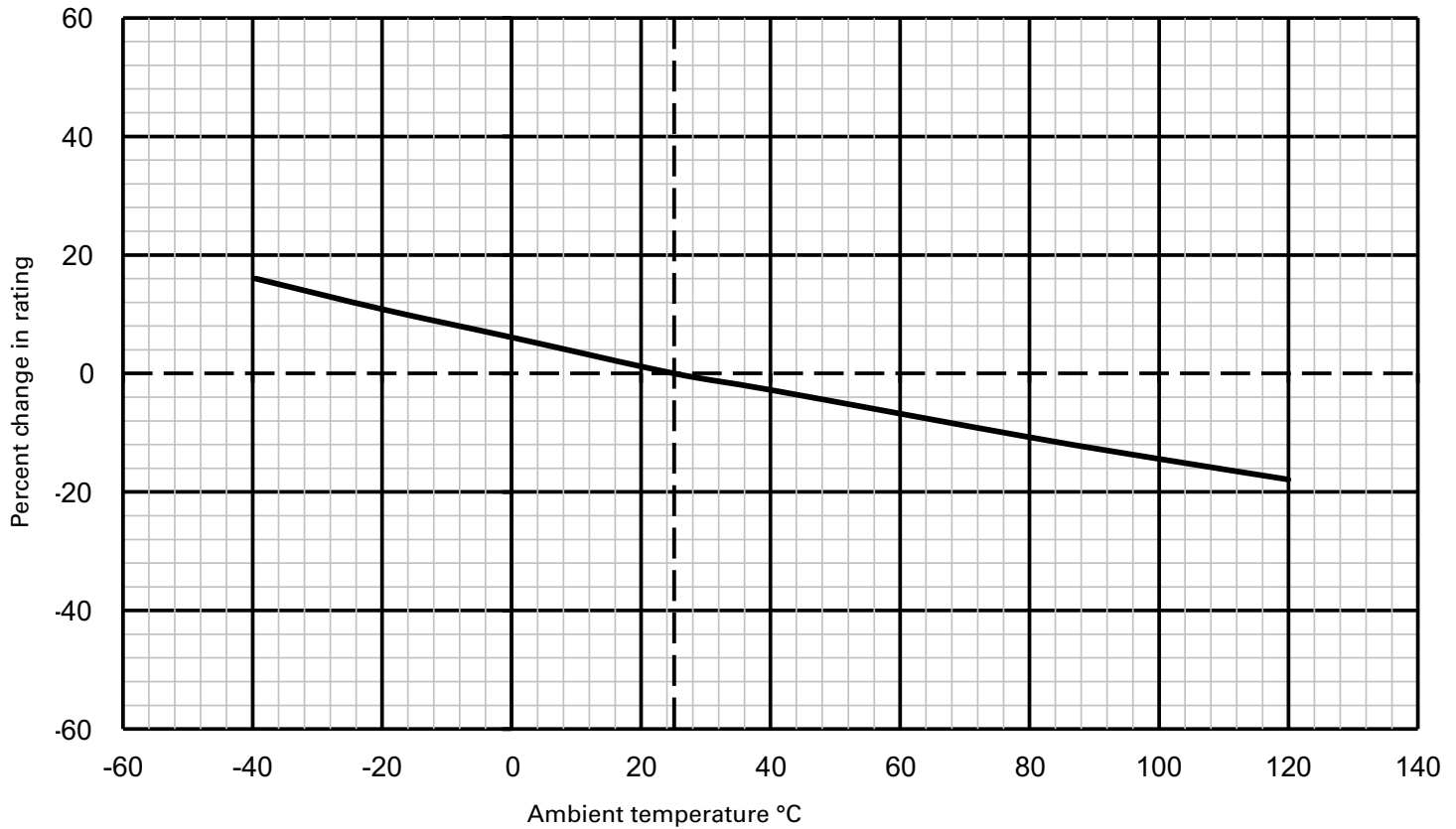


No additional derating is required for PV fuse links installed in ganged modular fuse holders without spacing between units, provided that the rating used is $>1.56 \times I_{sc}$.

Time-current characteristics — 25-30A:



Temperature derating curves — 25-30A:



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