



Increase flexibility with one bolt pattern, in one compact footprint



Bussmann series NH PV fuses use a consistent bolt-hole pattern for 63-400A ratings, providing design flexibility for high current solar applications.

Product description:

Eaton's Bussmann® series 1000Vdc NH size Photovoltaic (PV) fuses are specifically designed for protecting and isolating array combiners/re-combiners, disconnects and inverters.

Bussmann series NH PV fuses offer the highest current density with two unique mounting options. The traditional blade version is for use with a fuse block and provides quick, tool-less replacement for easier maintenance. The bolt-on version with common hole centers easily integrates into standardized busbar designs for component reduction and improved assembly time.

Features and benefits:

- Compact size saves enclosure space for greater design flexibility.
- Bolt-on version features common hole centers for standardizing busbar designs across the 63-400 amp range.
- Bolt-on version eliminates the need for a fuse block, reducing installation time and components.
- Industry-leading low power loss provides greater efficiency and lower operating temperature.
- Global agency standards simplify designs for worldwide markets.
- Dual indication feature and optional microswitches make system monitoring easier.

Specifications

Technical data:

- Volts
 - 1000Vdc
- Amps
 - 32 to 400A
- IR
 - 50kA
- Time constant
 - 1-3mS
- Class of operation
 - gPV and UL PV

Agency information:

- UL® Listed, Guide JFGA, File E335324. Photovoltaic to UL 2579
- IEC® 60269-6 gPV
- CSA® Class 1422-30, File 53787 (32-160A)
- CCC® pending

Microswitches (ordered separately)*:

- 170H0236
- 170H0238
- BVL50

Fuse blocks (ordered separately)*:

- SD1-D-PV
- SD2-D-PV
- SD3-D-PV

*For use with bladed version.



Standard bolt-hole pattern allows standardized busbars or cable lengths across the full 63-400A range of fuses.



Industry-leading efficiency results in low power loss and low operating temperature.

Technical data

Blade without bolt-holes

Part number	Fuse size	Current rating (amps)	Energy integrals I²t (A²S)		Watts loss	
			Pre-arcing	Total at 1000V	0.8I _n	I _n
PV-32ANH1		32	80	720	4	8
PV-40ANH1		40	185	1670	5	9
PV-50ANH1		50	400	3600	6	11
PV-63ANH1		63	470	4300	6	12
PV-80ANH1	NH1	80	640	5760	8	15
PV-100ANH1		100	1300	11,700	8	16
PV-125ANH1		125	2600	23,400	9	17
PV-160ANH1		160	5200	46,800	14	27
PV-200ANH1		200	10,200	82,000	13	25
PV-250ANH2	NH2	250	17,000	136,000	19	38
PV-300ANH3		300	32,000	260,000	24	40
PV-315ANH3		315	32,000	260,000	26	44
PV-350ANH3	NH3	350	44,500	370,000	27	45
PV-355ANH3		355	44,500	370,000	28	46
PV-400ANH3		400	67,500	550,000	30	50

See data sheet No. 720133 for more information.

Blade with bolt-holes

Part number with bolt holes	Fuse size	Current rating (amps)	Energy integrals I²t (A²S)		Watts loss	
			Pre-arcing	Total at 1000V	0.8I _n	I _n
PV-63ANH1-B		63	470	4300	6	12
PV-80ANH1-B		80	640	5760	8	15
PV-100ANH1-B	NH1	100	1300	11,700	8	16
PV-125ANH1-B		125	2600	23,400	9	17
PV-160ANH1-B		160	5200	46,800	14	27
PV-200ANH1-B		200	10,200	82,000	13	25
PV-250ANH2-B	NH2	250	17,000	136,000	19	38
PV-315ANH3-B		315	32,000	260,000	26	44
PV-355ANH3-B	NH3	355	38,000	310,000	29	48
PV-400ANH3-B		400	61,000	490,000	32	50

See data sheet No. 720133 for more information.

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