

Quik-Spec™ DC safety switch



Isolating DC circuits has never been easier or safer



Bussmann series Quik-Spec DC safety switches provide the extra measure of protection for solar systems.

RoHS

Product description:

Eaton's Bussmann® series Quik-Spec™ DC safety switch is a disconnect means specifically engineered to meet the needs of Photovoltaic (PV) power generation.

Available in single-pole fused and non-fused versions, this 600Vdc safety switch is available up to 200A with NEMA® 3R, 12 and 4X enclosures, making it easy to specify to meet installation requirements.

Isolated ground terminals (neutral) for grounded conductors and ground lug for equipment grounding conductors included.

Features and benefits:

- Enhanced finger-safe design: Large, clear polycarbonate deadfront is standard on all models, greatly reducing the possibility of accidental contact with live parts. It permits positive visual confirmation of the switch's blade position.
 - Meets UL® and NEC® requirements: With multiple poles prewired from the factory with jumpers, these switches are listed to UL 98 and UL 50 standards. Marked as suitable for NEC Article 690 PV applications up to 600Vdc per UL 1741 requirements. NEC 690.14.(C) 2 required "PV system disconnect" label included.
 - Flange handle operation: Always in contact with the switch mechanism, the flange operated switch is preferred in most industries. Lockout/tagout provision accepts up to three padlocks to facilitate safe working procedures.
 - Fast-acting fuses remove faults faster: On fused versions, install Bussmann series PVS-R Photovoltaic Class RK5 fuses* for quicker fault clearing on PV systems.
- * Order fuses separately.

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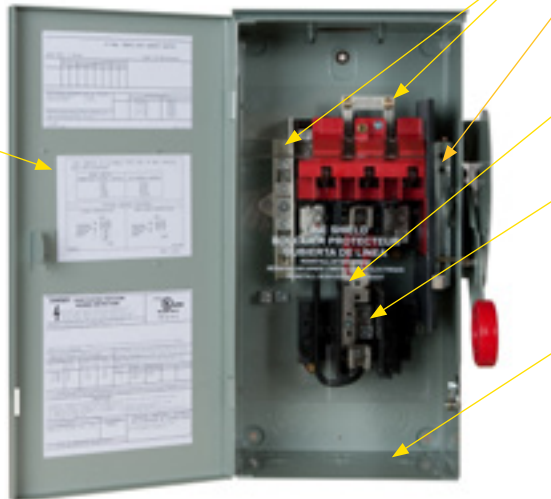
Specifications

NEMA 3R, 12 and 4X enclosures with NEC 690.17 compliant labels

Warns that the switch terminals may be energized when switch is in the open position.



High visibility padlockable handle
Easy to operate with gloves and accepts up to three padlocks.



Factory installed jumpers and neutral
Makes installation easier.

Door interlock
Prevents opening door while energized, but can be manually overridden for testing or inspection.

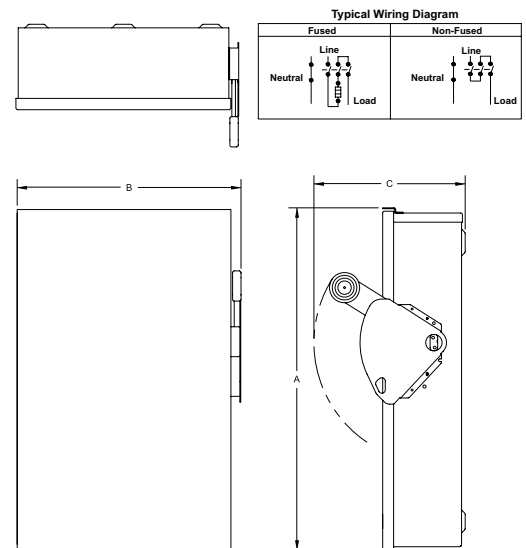
Clear polycarbonate deadfront
Covers energized parts to provide added protection against electrical hazards.

Fused version for added protection
Fuse clips located on switch center pole to ensure both clips are de-energized in OFF position. Meets NEC 690.16 that requires isolating the fuse from all potential supply sources.

Conduit knockouts
For easy installation.

Dimensions-in

Amps	A	B	C	Main lug capacity	Neutral lug capacity	I _{sc}	
NEMA type 3R							
30	16.35	8.87	9.89	2AWG - 14AWG Al/Cu	4 AWG - 14AWG Al/Cu	19.2	
60	16.35	8.87	9.89	2AWG - 14AWG Al/Cu	4 AWG - 14AWG Al/Cu	38.4	
100	22.15	11.84	9.89	1/0AWG- 14 WG Al/Cu	4 AWG - 14AWG Al/Cu	64	
200	28.27	16.66	11.26	250kcmil - 6AWG Al/Cu	2 AWG - 14AWG Al/Cu	128	
NEMA type 12 and 4X							
Non-fusible	30	14.14	8.76	10.22	2AWG - 14AWG Al/Cu	4 AWG - 14AWG Al/Cu	19.2
	60	14.14	8.76	10.22	2AWG - 14AWG Al/Cu	4 AWG - 14AWG Al/Cu	38.4
Fusible	30	19.08	8.76	10.22	2AWG - 14AWG Al/Cu	4 AWG - 14AWG Al/Cu	19.2
	60	19.08	8.76	10.22	2AWG - 14AWG Al/Cu	4 AWG - 14AWG Al/Cu	38.4
	100	24.95	11.79	10.22	1/0AWG- 14AWG Al/Cu	4 AWG - 14AWG Al/Cu	64
	200	35.38	16.95	11.63	250kcmil - 6AWG Al/Cu	2 AWG - 14AWG Al/Cu	128



DC safety switch catalog numbering system

Use this build-a-code to specify the exact Quik-Spec DC safety switch you need.

BD	1	6	1	F	R
Prefix BD=Heavy duty DC safety switch	Poles 1=1-pole	Voltage 6=600Vdc	Amps 1=30A 2=60A 3=100A 4=200A	Type F=Fusible with neutral* N=Non fusible with neutral	Enclosure Type R=NEMA 3R D=NEMA 12 W=NEMA 4x stainless

*Order fuses separately. Eaton recommends installing PVS-R Class RK5 fuses.



Install Bussmann series PVS-R solar fast-acting fuses
Sold separately, PVS-R photovoltaic Class RK5 fuses are available in many ratings to closely match the load you need to protect. The following ratings will fit this DC safety switch. All are rated to 600Vdc with interrupting ratings starting at 10kA. 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200 Amps.

See data sheet No. 4203 for more information.

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