

Introducing Type VBII Photovoltaic Solar Disconnect Switches.

The first line of 3 pole disconnect switches that is UL listed for use with three separate 600V DC circuits.



Application

VBII Photovoltaic Disconnect Switches are specifically designed for use in solar applications. They are 3 pole switches that are UL approved to be used on 3 separate 600V DC circuits. They are for use in control panels and other equipment that have enclosures that accept flange mounted operating handles. They are designed to UL 98 requirements but are UL recognized under file number E335018, Vol. 3 as UL1741 Photovoltaic Disconnect Switches

Features

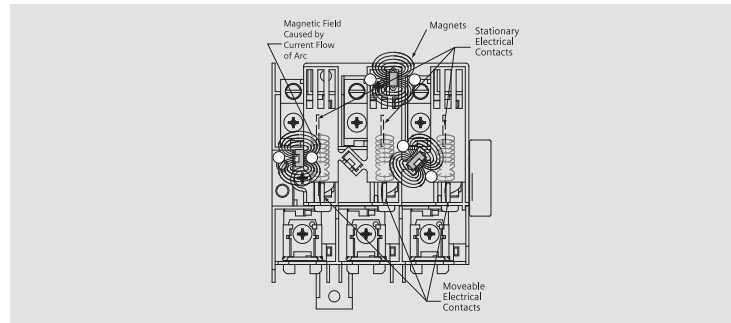
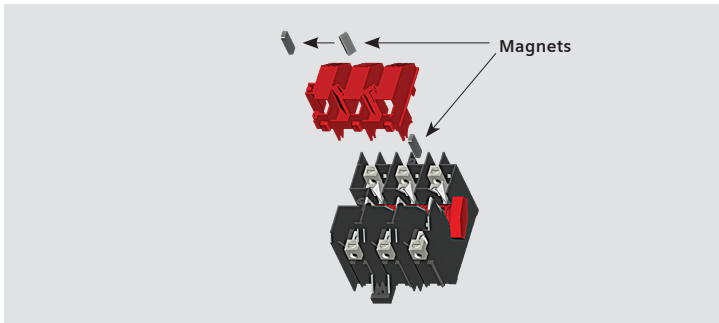
- Available in 30-100A ratings and in both fusible and non-fusible versions
- Both plastic and metal operating handles are available that meet Type 1, 3R 12 or 4X requirements
- Both variable depth shaft and cable drive are available
- Visible blade, double break switching action
- Quick make and break operation
- Line base, load base and operating mechanism are all factory installed on a mounting pan to decrease installer labor cost
- Flange mounted switches are available to facilitate installation
- Short circuit rating of 10,000 AIC when used with or protected by Class K, J or R fuses rated at 600V DC
- Meets NFPA79 requirements



Type VBII Visible Blade Disconnect Switches

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A true design innovation!

A very hot arc is generated by the interruption of a 600VDC circuit when under load. This damages conventional switch contacts and insulating material after a small number of operations unless the poles are connected in series to spread this destructive energy over at least two sets of contacts.

As illustrated above, powerful magnets have been incorporated into the line base assembly of our disconnects which are strategically located and specifically aligned to disperse this energy and to very quickly extinguish the arc. The result is a line of disconnects that performs at a level far beyond that of any conventional switch. These switches have passed the extremely rigorous testing required for photovoltaic disconnects **with three separate 600VDC circuits connected to a single 3 pole switch.**

Switches – For photovoltaic applications, 600V DC max. ¹⁾

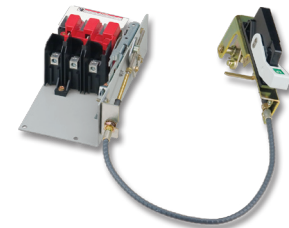
Switch ampere rating	Catalog number	Rated Isc per NEC Article 690
Fusible panel mounted variable depth switches – 3 pole ²⁾		
30	VBFS361PV	19.2A
60	VBFS362PV	38.4A
100	VBFS363PV	64.0A
Non-Fusible panel mounted variable depth switches – 3 pole ²⁾		
30	VBNFS361PV	24.0A
60	VBNFS362PV	48.0A
100	VBNFS363PV	80.0A
Fusible flange mounted variable depth switches – 3 pole (includes Type 1, 3R and 12 rated operating handle) ³⁾		
30	VBFS361FPV	19.2A
60	VBFS362FPV	38.4A
100	VBFS363FPV	64.0A
Non-fusible flange mounted variable depth switches -3 pole (includes Type 1, 3R and 12 rated operating handle) ³⁾		
30	VBNFS361FPV	24.0A
60	VBNFS362FPV	48.0A
100	VBNFS363FPV	80.0A

Max Flex™ handle and adapter kit
(Type 1, 12, 3R and 4X) Use with 30 –200A panel mounted switches and cable kit.

Catalog number	Description
VBHM1	30 - 200A Max-Flex adapter kit

Cable kit
For use with 30-200A panel mounted switches and Max-Flex handle and adapter kit.

Catalog number	Description
FHOEC036	36" long drive cable
FHOEC048	48" long drive cable



Note: Fusible switches include fuse provisions for class H fuses. The load base can be moved to pre-drilled holes for class J fuses. If Class R fuses are required, add a Class R fuse clip kit.

Flange mounted operating handle

For use with panel mounted switches. Plastic handle included with flange mounted switches as standard.

Catalog number	Handle assembly description
Plastic handles	
VBH1	30-100A Type 1, 3R & 12
VBH14X	30-100A Type 4X
Metal handles	
VBH112	30-100A Type 1, 3R & 12
VBH14	30-100A Type 4X

VBNFS361PV, VBHM1 and FHOEC036

Rigid linkage kits

For use with panel mounted switches. Not required for flange mounted switches

Catalog number	Switch ampere rating	Enclosure depth	
		Min.	Max.
VBLK1	30-100	6.81	6.81
VBLK2	30-100	6.81	19.0

- 1) All photovoltaic switches are rated to be used with three separate 600V DC circuits.
- 2) Includes line base, load base, operating mechanism and line and load lugs. Select operating handle and linkage kits from tables on this page.
- 3) Includes line base, load base, operating mechanism, line and load lugs, operating handle and required linkage.

The information provided in this flyer contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

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