

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

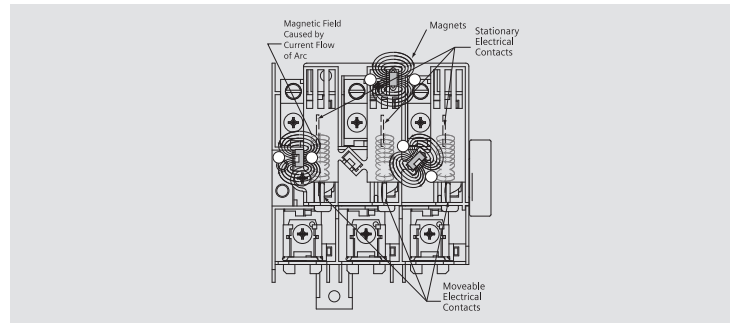
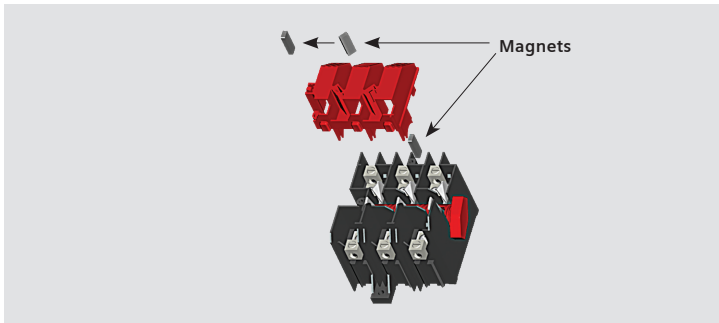
- Available in 30-100A ratings and in both fusible and non-fusible versions
- Both plastic and metal operating handles are available that meet Type 1, 3R 12 or 4X requirements
- Both variable depth shaft and cable drive are available
- Visible blade, double break switching action
- Quick make and break 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⁾

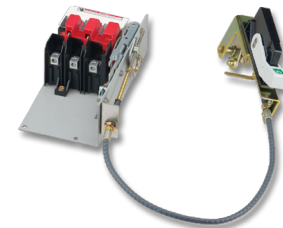
| Switch ampere rating | Catalog number | Rated Isc per NEC Article 690 |
|---|----------------|-------------------------------|
| Fusible panel mounted variable depth switches – 3 pole ²⁾ | | |
| 30 | VBFS361PV | 19.2A |
| 60 | VBFS362PV | 38.4A |
| 100 | VBFS363PV | 64.0A |
| Non-Fusible panel mounted 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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