# **Disconnect Switches**

#### **Type VB Panelboard Units**



### Features

#### **Exclusive Vacu-Break® Clampmatic**

Arc Control — Hazardous switching arcs are safely confined and controlled in the Vacu-Break chamber.

**NEMA Phasing** — All line connections are phased as per NEMA Standards, i.e., left to right and top to bottom as you face the unit.

### Pressure Terminal Connectors —

Suitable for aluminum or copper (100 Amps or larger). All Terminal Connectors 200 Amps and larger are removable.

Connection Screws - Bullet nosed for positive location and seating of screw.

Quick-Make Quick-Break — Assured by design of cam mechanism and powerful springs. Positive operation in "ON" or "OFF" position results from design of the cross arm and Vacu-Break head linkage.

Easy Mounting — Mounting feet have captive bullet nosed screws added, which seat quickly and positively, reducing installation time.

Padlocking Member — Provides locking of handle in the "ON" or "OFF" position.

Fibre End Barriers — Insulated End Barriers prevent damage to wire during installation and are designed with openings large enough to accommodate removable lugs (200 Amps and larger units).

#### **High Pressure Spring Reinforced**

Copper Fuse Clips - Provided extra pressure at the contact points. Fuse clips are removable from the front in 7½" and 10" units and from the rear of 5" units

Voidable Cover Interlock — Permits only authorized personnel to void the door interlock and open door with switch "on." "Fool proof" mechanism will not permit door to be closed unless handle is in the correct position.

#### **Specifications**

#### Application

VB Panelboard Switches are intended for use in applications where:

- 1. Rugged constructions, reliable performance, continuity of service and ease of maintenance are emphasized, or
- 2. Available fault currents higher than 10,000A are likely to be encountered, in manufacturing plants, mass production industries and commercial, institutional and other large buildings served by network systems or transformers of high capacities.

#### **Short Circuit Withstand Ratings**

Suitable for use on systems capable of delivering not more than 200,000 RMS symmetrical amperes of fault current when Class J or R fuses are installed. 1200A switches are the exception, which are suitable for use on circuits capable of delivering not more than 100,000 RMS symmetrical amperes of fault current when Class L fuses are installed. Also, 100–800A switches with Class T fuses and field adapter kit, which are 200,000 RMS symmetrical rated.

#### Fuses

Fusible switches will accept the following UL Class fuses: Class H Class K Class R or J with proper adapter kit Class L — 800 and 1200A switches

Class T — 100-800 switches with proper adapter kit

#### **Cover Interlocks**

Voidable cover interlocks standard on all switches. Prevents cover from being opened when switch is in the "ON" position.

#### **UL Listing**

Listed by UL under file #E6849 as miscellaneous switches and also suitable for use as service equipment (where applicable). Meets UL98 standard for enclosed and deadfront switches.

#### **NEMA Specifications**

Meets NEMA standard KS-1-2001 for type HD switches.

#### **Federal Specifications**

Meets previous federal specifications W-S-865C for heavy duty switches (Type HD) Type 1 switches — general purpose enclosed (Type 1).

Switch	Maximum W	/ithstand Ratin	gs — 240V AC	;		Maximum Withstand Ratings — 600V AC					
Rating	H, K Fuses	R Fuses	J Fuses	L Fuses	T Fuses	H, K Fuses	R Fuses	J Fuses	L Fuses	T Fuses	
30–30	10,000	<b>200,000</b>	—	—	_	10,000	200,000	200,000	—	—	
30–60	10,000	200,000	200,000	_	—	10,000	200,000	200,000	—	—	
60–60	10,000	200,000	200,000	—	_	10,000	200,000	200,000	—	—	
60–100	10,000	200,000	200,000	—	_	10,000	200,000	200,000	—	200,000	
100	10,000	200,000	200,000	—	200,000	10,000	200,000	200,000	—	200,000	
100–100	10,000	200,000	200,000	—	200,000	10,000	200,000	200,000	—	200,000	
200	10,000	200,000	200,000	—	200,000	10,000	200,000	200,000	—	200,000	
200–200	10,000	200,000	200,000	_	200,000	10,000	_	200,000	—	—	
400	10,000	200,000	200,000	_	200,000	10,000	200,000	200,000	—	200,000	
600	10,000	200,000	200,000	—	200,000	10,000	200,000	200,000	—	200,000	
800	_	_	_	200,000 <sup>2</sup>	200,000 <sup>2</sup>	_	_	_	200,000	200,000	
1200	—	—	—	100,0002	_	—	_	_	100,000	—	

① 2<sup>1</sup>/2" units will not accept Class R or J fuse clip kits and are rated 10,000 AIC max.

<sup>®</sup> Ratings are for 600V switches and fuses when used on a 240V max. AC system.

#### **Type VB Panelboard Units**

# Fusible Units For SB1, SB2 Switchboards and F1, F2 Panelboards



Rating each side. Suffix letters MS indicate Main Switch.

## Vacu-Break<sup>®</sup> Fusible Units

<b>2-Pole</b> <sup>①</sup> .	12"	Wide	

2-Pole <sup>①</sup> , 12" Wide 240V AC, 250V D										
Ampere	Unit Height	Unit Depth	Horsepowe 240 Volt AC	r Rating	250 Volt	Unit Lug Wire Range (Cu/Al)	Weight	Catalog		
Rating	(inches)	(inches)	Standard	Maximum	DC	and Cables Per Pole	(pounds)	Number		
30–30	<b>2½</b> ②	4½	1½	3	5	(1)-#14 to #8 (Cu Only)	5	V2A2211LR		
30–30	5	41⁄2	1½	3	5	(1)–#14 to #4	9	V2B2211LR		
30–60	5	41⁄2	1½–3	3–10	5–10	(1)–#14 to #2	9	V2B2212LR		
60–60	5	41⁄2	3	10	10	(1)–#14 to #2	9	V2B2222LR		
100	7½	6¾	7½	15	20	(1)-#14 to #1/0	14	V2E2203LR		
200	7½	6¾	15	—	40	(1)–#6 to 350 kcmil	19	V2E2204LR		

#### 3-Pole

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DISCONNECT SWITCHES

	11	11	Horsepower Ra	nting	11-24		
Ampere Height Denth		240 Volt AC		Unit Lug Wire Bange (Cu/Al)	Weight	Catalog	
Rating	(inches)	(inches)	Standard	Maximum	and Cables Per Pole	(pounds)	Number

#### Branch Circuits, 12" Wide Units

30–30	2½②	41/2	3	7½	(1)-#14 to #8 (Cu Only)	5	V2A3211			
30–30	5	41/2	3	7½	(1)–#14 to #4	9	V2B3211			
30–30	5	41/2	3	7½	(1)–#14 to #4	9	V2B3211R3			
30–60	5	41/2	3–7½	7½–15	(1)–#14 to #2	9	V2B3212			
30–60	5	4½	3–7½	7½–15	(1)–#14 to #2	9	V2B3212R③			
60–60	5	41⁄2	7½	15	(1)–#14 to #2	9	V2B3222			
60–60	5	41/2	7½	15	(1)–#14 to #2	9	V2B3222R③			
100	7½	6¾	15	30	(1)–#14 to #1/0	14	V2E3203			
200	10	6¾	25	60	(1)–#6 to 350 kcmil	21	V2F3204			
Main Swit	Main Switch <sup>@</sup> , 12" Wide Units, Back Connected									
200	10	<b>6</b> <sup>3</sup> ⁄ <sub>4</sub>	25	50	5	21	V2F3204MS			

For inches / millimeters conversion, multiply inches by 25.4.

■ Built to order. Allow 4–6 weeks for delivery.

<sup>(2)</sup> This unit is not a Vacu-Break unit, but rather operates on a sliding contact, double break principle. Rated 10,000 AIC max. with either Class H or K fuses. Will not accept Class R fuse clip kits.

Units set up for R-fuse application only.

@ For 2-pole main switch (200A), use 3-pole main switch Vacu-Break unit.

S Load-side furnished with spade type bolted terminal pads.

240V AC, 250V DC

1 These units are available in LR (left, right) connection figurations only.

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# **Disconnect Switches**

#### **Type VB Panel Units**

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Ampere	Unit Height	Unit Depth	480 Volt	AC	600 Volt AC		Lug Wire Range (Cu/Al)	Unit Weight	Catalog
Rating	(inches)	(Inches)	Standard	Iviaximum	Standard	tandard  Maximum   and Cables Pe		(pounas)	Number
Pole, Bra	nch Circui	ts, 17" Wie	de Units	D					600V AC, 250V E
30–30	7½	6¾	3	7½	3	10	(1)–#14 to #4	14	V7E2611LR®■
30–60	7½	6¾	3–5	7½–20	3–5	20–25	(1)–#14 to #4	14	V7E2612LR®∎
100	7½	6¾	10	20	15	40	(1)–#14 to #1/0	14	V7E2603LR®■
Pole, Bra	nch Circui	ts, 17" Wie	de Units						600V AC, 250V I
30–30	7½	6 <sup>3</sup> / <sub>4</sub>	5	15	7½	20	(1)–#14 to #4	14	V7E3611
30–30	7½	6 <sup>3</sup> ⁄4	5	15	7½	20	(1)–#14 to #4	14	V7E3611R <sup>⑦</sup>
30	7½	6¾	5	15	7½	20	(1)–#14 to #4	14	V7E3601
30–60	<b>7</b> ½	6 <sup>3</sup> / <sub>4</sub>	5–15	15–30	7½–15	20–50	(1)–#14 to #2	14	V7E3612
60–60	<b>7</b> ½	6 <sup>3</sup> / <sub>4</sub>	15	30	15	50	(1)–#14 to #2	14	V7E3622
60–60	7½	6¾	15	30	15	50	(1)–#14 to #2	14	V7E3622R <sup>⑦</sup>
60	7½	6 <sup>3</sup> / <sub>4</sub>	15	30	15	30	(1)–#14 to #2	14	V7E3602
60–100	<b>7</b> ½	6 <sup>3</sup> / <sub>4</sub>	15–25	30–60	15–30	50–75	(1)–#14 to #1/0	18	V7E3623
100–100	7½	63/4	25	60	30	75	(1)–#14 to #1/0	20	V7E3633
100–100	7½	6 <sup>3</sup> / <sub>4</sub>	25	60	30	75	(1)–#14 to #1/0	20	V7E3633R <sup>⑦</sup>
100	<b>7</b> ½	6 <sup>3</sup> / <sub>4</sub>	25	60	30	75	(1)–#14 to #1/0	14	V7E3603
200–200	10	63/4	50	125	60	150	(1)–#6 to 300 kcmil	40	V7F3644J2
200	10	6 <sup>3</sup> / <sub>4</sub>	50	125	60	150	(1)–#6 to 350 kcmil	21	V7F3604
200	10	6 <sup>3</sup> / <sub>4</sub>	50	125	60	150	(1)–#6 to 350 kcmil	21	V7F3604R⑦
400	15	10½	100	250	125	350	(2)-#4 to 500 kcmil	63	V7H3605
400	15	10½	100	250	125	350	(1)–1/0 to 750 kcmil	63	V7H3605750
600	15	10½	150	400	200	500	(2)-#4/0 to 500 kcmil	63	V7H3606
Pole, Ma	in Switch,	17" Wide	Units (V	ertical M	ount, To	p Feed, F	Front Connected)		600V AC, 250V
400	18.75	10%	100	250	125	350	3	—	VMS365T
600	18.75	10¾	150	400	200	500	3	_	VMS366T
Pole, Ma	in Switch,	17" Wide	Units (V	ertical M	ount, Bo	ottom Fee	ed, Front Connected)		600V AC, 250V
400	18.75	<b>17</b> <sup>1</sup> / <sub>16</sub>	100	250	125	350	3	—	VMS365B
600	18.75	<b>17</b> <sup>1</sup> / <sub>16</sub>	150	400	200	500	3	—	VMS366B
Pole, Ma	in Switch,	17" Wide	Units, Ba	ack Conn	ected				600V AC, 250V
100	7½	6¾	25	50	30	50	3	14	V7E3603MS
200	10	6¾	50	125	60	150	3	21	V7F3604MS
400	15	10½	100	250	125	350	3	63	V7H3605MS
600	15	10½	150	400	200	500	3	63	V7H3606MS
Pole, Sw	itchboard	Units, 21"	Wide Ur	nits, Fron	t Conne	cted 5			600V AC, 250V
800	25	123⁄4	200	500	250	500	_	160	<b>VF357TL</b> or BI @O
	20	12/4						100	

		•	-						•
800	25	12¾	200	500	250	500	—	160	VB357TL or BL
1200	25	12¾	—	—	—	—	_	160	VB358TL or BL <sup>@</sup> ■

Unit configured to accept class J fuses only. Also accepts 300V Class T fuses when used with TFAK42 adapter kit.
Load-side furnished with spade type bolted terminal pads.
Suffix "T" or "TL" indicates Top Feed.
Suffix "B" or "BL" indicates Bottom Feed.
Back connected units are also available. Substitute the letter "B" (back connected) for the letter "F" (front connected) in the prefix of the catalog number. All other features are incident. are identical.

Available as Type MR designation only.
 Switches set up for R-fuse applications only.
 Available as Type LR designation only.

600V AC, 250V DC

Built to order. Allow 2–3 weeks for delivery.
 MR suffix only is available and built to order. Allow 2–3 weeks for delivery.
 D BL suffix. Built to order. Allow 2–3 weeks for delivery.
 ©Catalog number for 2-pole branch circuit units indicate connection designation LM, LR or MR (indicating Left, Middle and Right, facing the panel).

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800	25	12¾	200	500	250	500	—				
1200	25	12¾	_	—	—	_	—				
3-Pole, Switchboard Units, 21" Wide, Back Connected											
800	25	12¾	200	500	250	500	—				
1200	25	12¾	-	—	—	-	—				
		·		·							
Built to orde	r. Allow 2–3 wee	ks for delivery.		@Unit co	nfigured to ad	ccept class J fu	uses only. Also accepts	6			