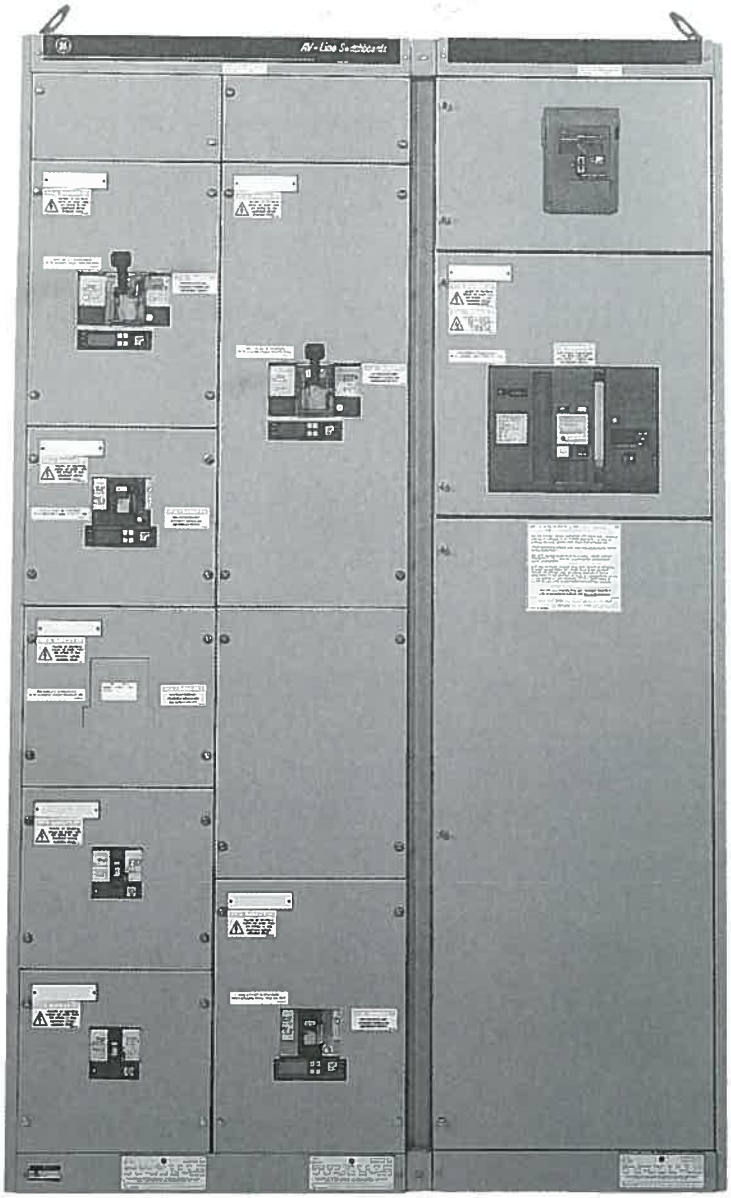
AV3 Access™ Switchboard

GE's new AV3 Access™ Switchboard gives you access to more exciting features than the competition:

- *100% rated, individually mounted Spectra molded-case circuit breakers with all frame sizes*
- *Standard full-height 2000A silver-plated copper riser bus make breaker upgrades or add-ins easy*
- *Standard vertical flush-mounted breakers improves access to breaker controls, trip units and rating plugs*
- *Optional double- or triple-wide rear compartments provide better access for cable terminations*
- *Optional POWER LEADER™ power management capability allowing the user to increase productivity and reduce cost while meeting all electrical system monitoring needs*



AV3 Access™ Switchboard

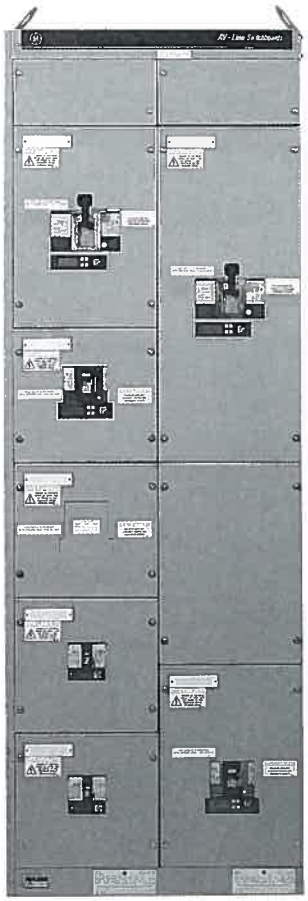
The reliability and flexibility of AV3 Access Switchboards are now available with all the advantages of Power Break II Insulated Case Circuit Breakers

Meets UL 891 and NEMA PB2 standards for switchboard construction

Standard rugged plug-on molded case circuit breaker design for interchangeability with same compartment heights

Indoor and outdoor (walk-in and non-walk-in) enclosure available (5000A offering indoor only)

Optional POWER LEADER™ Power Management System capability (AKR, Power Break II, SG, SK)



100% rated Spectra Molded Case Circuit Breaker combines ease of use and state-of-the-art performance in 150A, 250A, 600A and 1200A frame sizes

Convenient "thru-the-door" access to breaker controls, trip units and rating plugs

Fully equipped solid state MicroVersaTrip Plus™ or PM™ trip units on SG/SK/Power Break II/AKR breakers provide additional savings

Individual breakers isolated (top, bottom and rear) from adjacent breaker compartments and main bus/rear cable compartment

Padlocking capability for additional safety (optional)

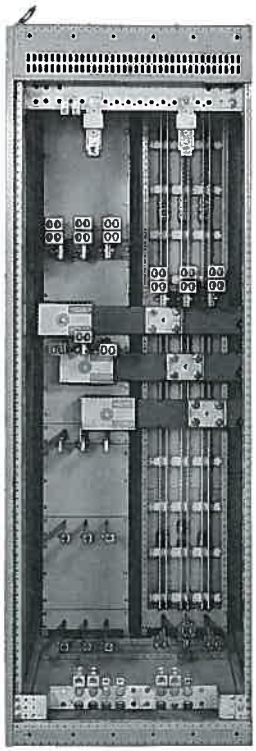
Standard full height 2000A silver-plated copper riser bus allows for easy breaker add-ins to future spaces

Riser bus bracing (RMS symmetrical)

- 65kA
- 100kA

Main bus bracing (RMS symmetrical)

- 65kA
- 100kA
- 150kA
- 200kA



5000A maximum main bus rating

Industry-exclusive 30 cycle short circuit withstand bus rating up to 85kA eliminates need for instantaneous tripping function

Optional double- or triple-wide rear compartment permits easy accessibility for cable terminations and maintenance

Standards and Interrupting Ratings

Standards

Equipment

AV3 Access — • UL 891
Switchboard — • NEMA PB-2

Molded Case Circuit Breaker

Spectra
- UL 489
- NEMA AB-1

Insulated Case Circuit Breaker

Power Break II
- UL 489
- CSA C22.2 No. 5.1
- NEMA AB-1
- IEC (pending)

Low Voltage Circuit Breaker

AKR
- ANSI C37.13; C37.16; C37.17; C37.50; C37.51
- NEMA SG-3

Interrupting Rating, RMS symmetrical (kA)

Molded Case Circuit Breakers

	Spectra													
Frame size	**150A**				**250A**				**600A**			**1200A**		
	SEDA	*SEHA*	*SELA*	*SEPA*	*SFHA*	*SFLA*	*SFPA*	*SGDA*	*SGHA*	*SGLA*	*SGPA*	*SKHA*	*SKLA*	*SKPA*
240Vac	18	65	100	200	65	100	200	65	65	100	200	65	100	200
480Vac	14	25	65	100	25	65	100	—	35	65	100	50	65	100
600Vac	10	18	25	25	18	25	25	—	25	65	65	25	42	65

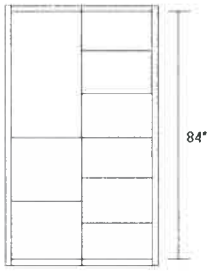
Insulated Case Circuit Breakers — Main Devices

	Power Break II					
Frame size	**800A**	**1600A**	**2000A**	**2500A**	**3000A**	**4000A**
Standard						
240Vac	65	85	85	100	100	100
480Vac	65	65	65	100	100	100
600Vac	50	50	50	85	85	85
High-Break						
240Vac	100	125	125	200	200	200
480Vac	100	100	100	150	150	150
600Vac	65	65	65	100	100	100
Short-time (0.5 sec)	25	30	30	42	42	42

Low Voltage Circuit Breakers — Main Devices

	AKR								
Frame Size	**800A**		**1600A**		**2000A**	**3200A**		**4000A**	**5000A**
Breaker Type	**AKR-30**	**AKR-30H**	**AKR-50**	**AKR-50H**	**AKRT-50H**	**AKR-75**	**AKR-75H**	**AKR-100**	**AKR-125**
Instantaneous									
240Vac	42	50	65	65	65	85	130	130	130
480Vac	30	42	50	65	65	65	85	85	85
600Vac	30	42	42	65	65	65	85	85	85
Short-time									
240Vac	30	42	50	65	65	85	85	85	85
480Vac	30	42	50	65	65	85	85	85	85
600Vac	30	42	42	65	65	85	85	85	85

AV3 Access™ Switchboard Sizing



Available compartment height is 84".

Main and Feeder Devices

Device			Main & Tie Devices Manual & Electrical Operations			Feeder Devices① Manual & Electrical Operations		
			Unit	Section		Unit	Section	
Type	Rating	Structure	Height	Width	Depth	Height	Width	Depth
Molded Case Circuit Breakers								
Spectra	150	80%	14"②	15"	45", 50", 60"	14"②	15"	45", 50", 60"
		100%						
	250	80%						
		100%						
	600	80%						
		100%	21"			21"		
	1200	80%③				21", 28"		
		100%④	35"			35"		

Main Devices⑤

Insulated Case Circuit Breakers			Height	Width	Depth
Power Break II	800	Stationary	14"	22" Std 30" Opt	50", 60"
		Drawout			
	1600	Stationary			
		Drawout			
	2000	Stationary			
		Drawout	21"		
	2500	Stationary	35"	22" Std 30" Opt	
		Drawout			
	3000	Stationary			
		Drawout			
	4000⑥	Drawout	42"	22" Std 30" Opt	60"
Low Voltage Power Circuit Breakers					
AKR⑥	800	Drawout	21"	22" Std 30" Opt	60"
		Fused Drawout			
	1600	Drawout			
		Fused Drawout			
	2000	Drawout		30" Std 38" Opt	
		Fused Drawout⑦			
	3200	Drawout	35"		
		Fused Drawout⑦			
	4000	Drawout			
		Fused Drawout⑦			
	2000/4000 D/O Fuse Carriage	Fused Drawout			
	5000	Drawout⑧⑨		38"	67"⑩

① Feeder devices can be located in the same section with mains rated 3000A and lower.
② Requires 7" blank at top to meet 6'6" rule.
③ Maximum 3 per stack with 21" blank.
④ Maximum 2 per stack with 14" blank.
⑤ A 2" transition is needed when using a Power Break II or AKR main device.
⑥ Selections adjacent to a 4000A device or AKR breaker must be a minimum of 30" wide. Add 2" for non walk-in outdoor construction.
⑦ 2000A-4000A fused breakers require separate drawout fuse carriage.
⑧ An 8" transition is needed when using an AKR 5000A main or tie device.
⑨ Horizontal main bus available up to 6000A
⑩ 74" required if section contains incoming or outgoing busway or is cable fed

See Engineered Products Catalog for additional information.

GE Electrical Distribution & Control

General Electric Company
41 Woodford Avenue, Plainville, CT 06062

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