



Power Break® II Switchboard

GE's Power Break® II Switchboard is now available with the new Power Break II Insulated Case Circuit Breaker (800A to 4000A)

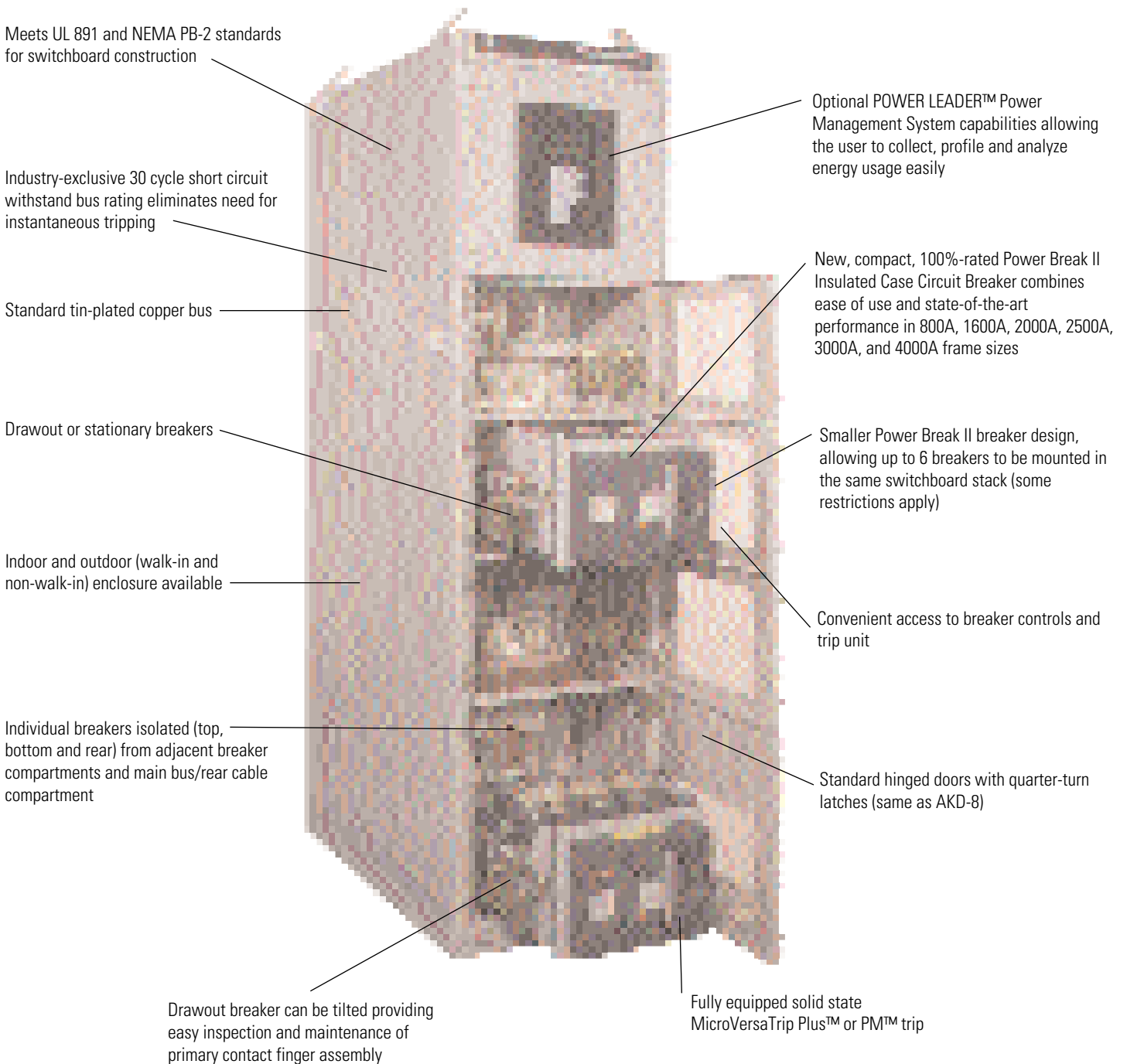
- *New compact 100%-rated Power Break II breaker design allowing up to 6 breakers to be mounted in the same switchboard stack (some restrictions apply)*
- *Increased metering and instrumentation space per stack.*
- *Standard tin-plated copper bus*
- *Optional epoxy-coated, insulated and isolated bus including polyester glass rear/side barriers*
- *Optional POWER LEADER™ power management capability allowing the user to increase productivity and reduce cost while meeting all electrical system monitoring needs*

***Now available with
PowerBreak II Circuit
Breakers through 4000A***

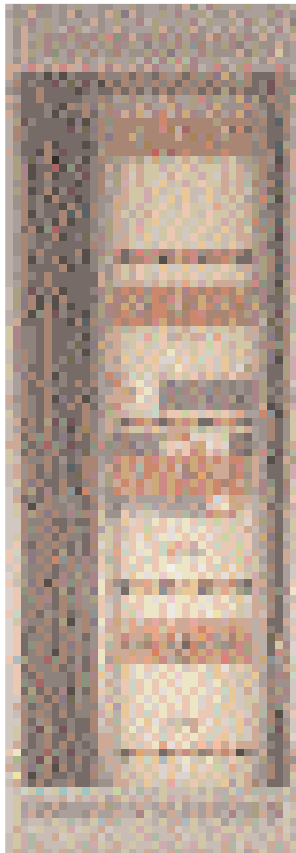


Power Break® II Switchboard

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



Bus and Cable Compartment



- Bus bracing (RMS symmetrical)
 - 65 kA (standard)
 - 100 kA
 - 150 kA
 - 200 kA
- 5000A maximum bus rating
- 30 Cycle short circuit withstand bus rating
- Bus and cable compartment completely isolated from the breaker compartment (standard)
- Standard tin-plated copper bus
- Optional epoxy-coated, insulated and isolated bus with polyester glass rear/side barriers

Introducing...The Power Break® II Insulated Case Circuit Breaker

The ultimate in capability, ease of use, and configuration flexibility

Optional mechanical operations counter

- Field installable
- At-a-glance viewing of a number of operations

72 dedicated secondary terminals

Easy-to-read indicators

- On/Off
- Charged/Discharged

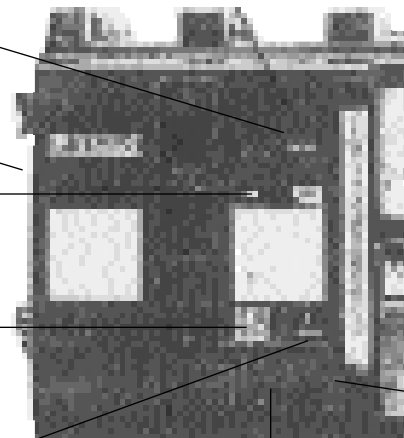
Buttons are doubly insulated from live components — positioned low on breaker to meet NEC 380-8 for accessibility when breaker is located in topmost switchboard compartment

Padlock device (standard)

- Accepts up to three 3/8-inch diameter padlocks
- Prevents unauthorized or accidental energizing of the breaker

Compact modular motor operator

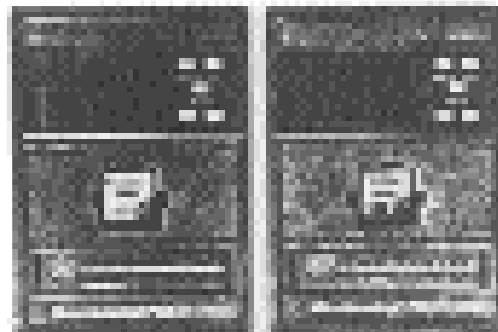
- Field installable
- Internal mounting does not change

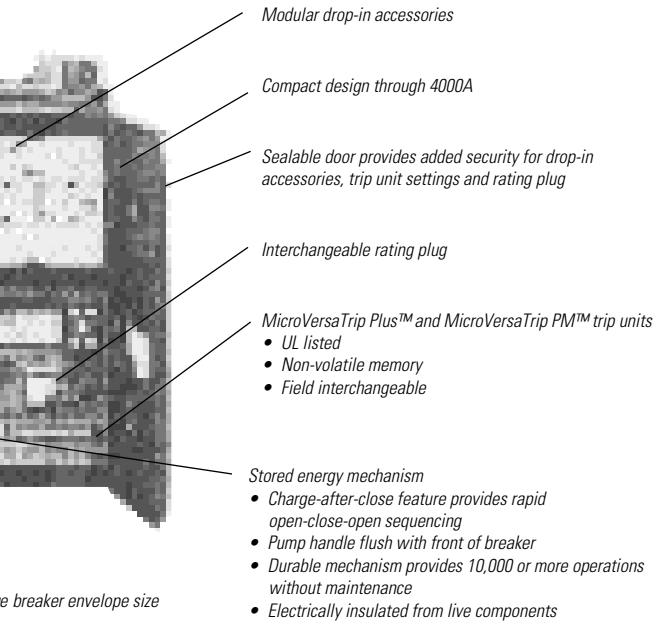


Trip Unit

MicroVersa Trip Plus™ and MicroVersa Trip PM™ Trip Units

GE's new trip units feature overcurrent protection using full digital sensing up to and including the 31st harmonic, providing true RMS response to high harmonic content waveforms. The **MicroVersa Trip Plus** trip unit includes 9 basic trip functions plus switchable instantaneous/short-time and ground fault (off) and adds many new standard features:





Accessories

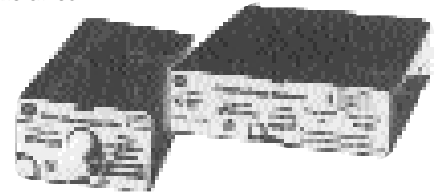
GE's innovative, modular, drop-in accessories provide the ultimate solution for field customization:

UL listed

- Accessory combinations (one each) shunt trip, undervoltage release, bell alarm (alarm only), bell alarm with lockout
- Rated 24-250 Vdc through 24-240 Vac, continuous duty

Fits all Power Break II frame sizes

Complete installation in seconds without special tools, breaker disassembly or adjustment



Pre-wired harness makes field installation a snap for:

- Motor operator with remote-close solenoid
- Auxiliary switches, up to 12-stage maximum
- Remote charge indicator

Additional field-installable accessories include:

- Kirk key locks (4 maximum)
- Limited access On/Off cover
- Mechanical operation counter
- Remote-close solenoid

- 3-phase current metering
- 5-button keypad and high-resolution LCD display
- Non-volatile trip targets with cold setup capability from field replaceable long-life batteries
- Trip operation counter
- UL-listed field interchangeability

Features exclusive to **MicroVersaTrip PM** trip units:

- Communication with POWER LEADER Power Management System
- Demand/peak demand monitoring
- Local and remote metering
 - Amps, volts, frequency
 - Real power, total power (kW,kWH)
 - Accumulated energy (kWH)
 - Apparent power (kVA)
- Protective relaying
 - Current and voltage unbalance
 - Overvoltage and undervoltage
 - Power reversal

POWER LEADER™

Power management made easy

The POWER LEADER Power Management System allows the user to collect, profile and analyze energy usage easily. A simple, shielded, twisted-pair cable permits information exchange among devices. A remote computer equipped with POWER LEADER Software allows:

- Viewing of custom metering screens and CAD drawings
- Analysis of energy consumption and power factor
- Collection of precise sequence of alarms and event information to speed diagnosis and minimize downtime
- Utilization of alarm and event logs to assist with maintenance interval planning
- Analysis of system harmonics (with data from POWER LEADER Meters)
- Use of the POWER LEADER network to communicate with other devices including Spectra Series™ molded case circuit breakers, Power Break insulated-case circuit breakers, full-function electronic power meters, discrete input/output modules and "smart" motor starters

Standards and Interrupting Ratings

Standards

Equipment

- Power Break II • UL 891
- Switchboard • NEMA PB-2

Insulated Case Circuit Breaker

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

- Power Break I • UL 489
- NEMA AB-1

Low Voltage Circuit Breaker

- AKR • ANSI C37.13; C37.16; C37.17; C37.27; C37.50; C37.51
- NEMA SG-3

Interrupting Rating, RMS Symmetrical (kA)

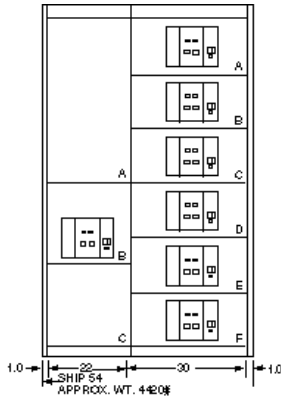
Insulated Case Circuit Breakers

		Power Break II					
		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
	250Vdc				42	42	42
High-Break	240Vac	100	125	125	200	200	200
	480Vac	100	100	100	150	150	150
	600Vac	65	65	65	100	100	100
Special High-Break	750Vac				35	35	35
Short-time (0.5 sec)		25	30	30	42	42	42

Low Voltage Circuit Breakers

		AKR								
		800A		1600A		2000A	3200A		4000A	5000A
Frame Size	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	65	85	85	85
	480Vac	30	42	50	65	65	65	85	85	85
	600Vac	30	42	42	65	65	65	85	85	85

Power Break II Switchboard Sizing



Available compartment height is 84".

Device			Main & Tie Devices			Feeder Devices ^②		
			Manual & Electrical Operations			Manual & Electrical Operations		
Type	Rating	Structure	Unit Height	Section		Unit Height	Section	
				Width	Depth		Width	Depth
Insulated Case Circuit Breakers								
Power Break II	800	Stationary	14"	22" Std 30" Opt	50", 60"	14"	22" Std 30" Opt	45"
		Drawout						
	1600	Stationary	21"	22" Std 30" Opt	50", 60"	21"	22" Std 30" Opt	45"
		Drawout						
	2000	Stationary	35"	22" Std 30" Opt	50", 60"	35"	22" Std 30" Opt	45"
		Drawout						
	2500	Stationary	42"	22" Std 30" Opt	60"			
Drawout								
3000	Stationary	42"	22" Std 30" Opt	60"				
	Drawout							
4000 ^①	Drawout							
Low Voltage Power Circuit Breakers								
AKR^①	800	Drawout	21"	22" Std 30" Opt	60"			
		Fused Drawout						
	1600	Drawout	35"	30" Std 38" Opt	60"			
		Fused Drawout						
	2000	Drawout	35"	30" Std 38" Opt	60"			
	3200	Drawout						
	4000	Drawout	35"	30" Std 38" Opt	60"			
2000/4000 D/O Fuse Carriage	Fused Rollout							
5000	Drawout ^③		38"	67" ^④				

① Selections adjacent to a 4000A device or AKR breaker must be a minimum of 30" wide. Add 2" for non walk-in outdoor construction.

② Feeder devices can be located in the same section with mains rated 3000A and lower.

③ Horizontal main bus available up to 6000A.

④ 74" required if section contains incoming or outgoing busway or is cable fed.

See Engineered Products Catalog for additional information.



GE Industrial Systems

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