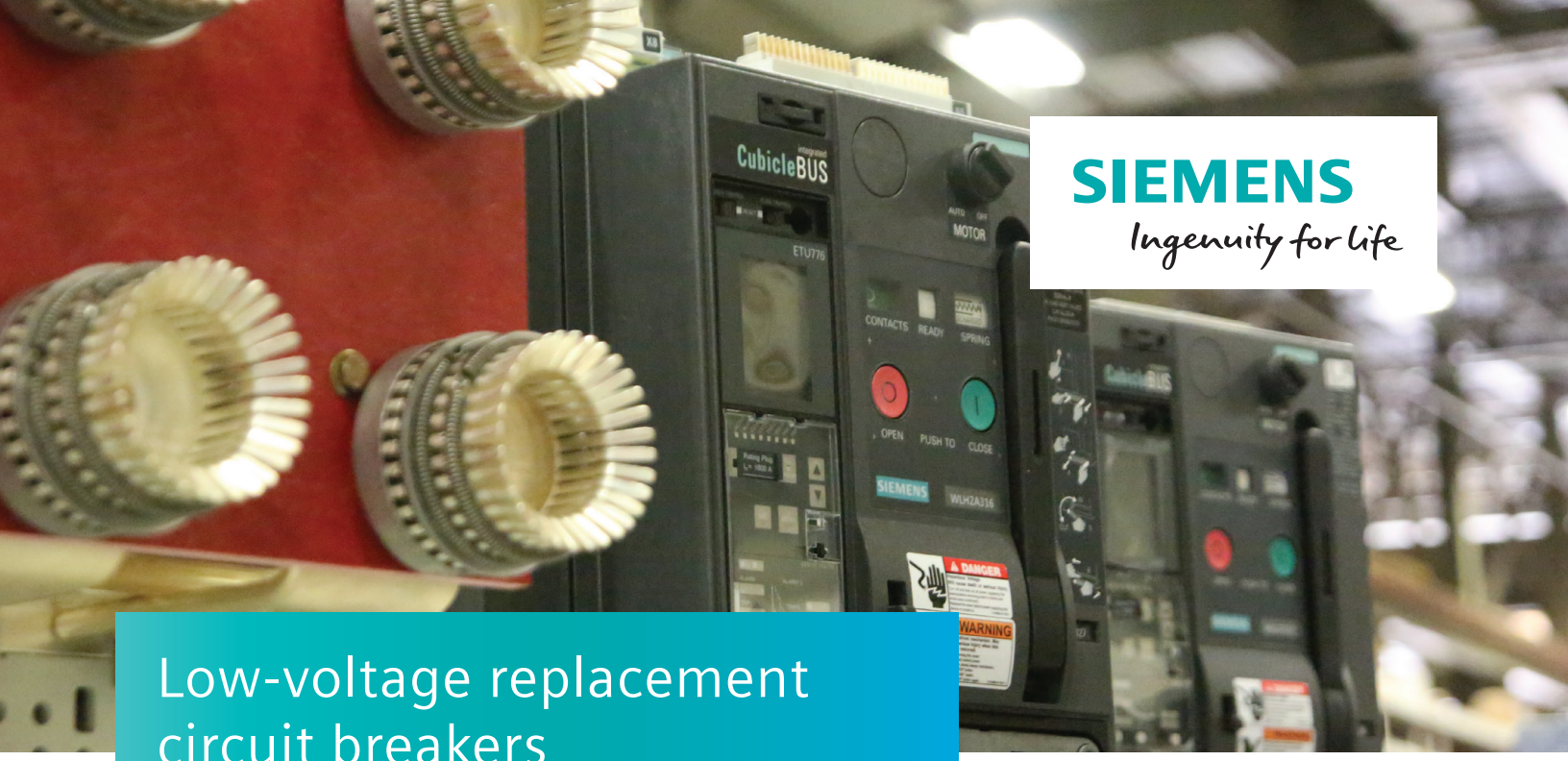


SIEMENS
Ingenuity for life

Low-voltage replacement circuit breakers

Featuring Siemens WL operator

Low-voltage replacement circuit breakers provide a cost-effective way to upgrade to current technology while increasing equipment reliability and minimizing downtime.

Why replacement breakers?

- Preserved investment in cubicles
- Reduced downtime and minimal changeover time during upgrade
- Increased reliability and performance
- Improved employee safety.

Why Siemens?

- Direct-connect to the primary contact mitigates heat generation
- WL operator is less prone to nuisance tripping
- A variety of trip units for all applications
- Secondary contacts are mounted on the front for safe, easy access
- Remote operation and monitoring for safety
- 24/7 support line.

Reliable

This highly engineered reliable design offers increased operations and the Extended Instantaneous Protection (patent pending) function allowing 100% of the full withstand rating of the frame and still providing the ability of the breaker to be applied up to the maximum Interrupting Rating. Highly accurate internal Rogowski CTs allow for precision protection and metering – saving money on down time, field service, and increased customer satisfaction.

Easy-to-use

The ease-of-use – from integrated racking handles, pull- apart, front-mounted terminal blocks, and simple selection and application tools – reduces installation time and errors, adds flexibility, and minimizes training.

Speed of delivery

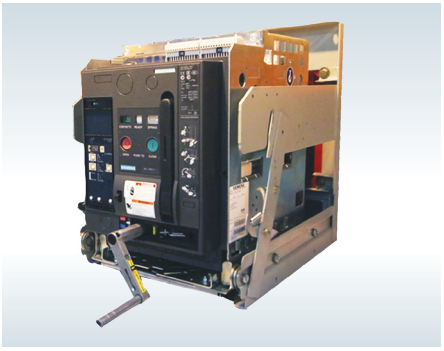
Located in the United States, our production facility is positioned to deliver your retrofit breakers within your time frame needed.

Safety related features

- Visible, ready-to-close indicator
- Customizable interlocking, and mechanical trip indication
- Available Siemens Dynamic Arc Sentry (DAS) provides an arc flash mitigation mode to lower the possible arc flash energy
- Available Remote Racking System.

Modular and flexible

The modularity and flexibility of front-mounted, common plug-in accessories, field upgradable trip units, and field changeable contacts and arc chutes reduce inventory, allow for last-minute adaptations, support quick-ship opportunities, forgive changes, and support the most cost-effective configuration. Electronic or solid-state trip units are available depending on your needs and application.



KLW 1600

The following circuit breakers are available as pre-engineered designs. Other manufacturers, models, and ratings can be engineered by Siemens at request.

Manufacturer	Original Model	Replacement	Amperage (A)
Siemens/Allis-Chalmers	SBA	SBW	1200, 2000
	SBS	SBW	1200, 2000, 3200, 5000
	SBH	SBW	2000, 3200,
	RL	RLW	800, 1600, 2000, 3200, 4000,
	RLE	RLW	800, 1600, 2000, 3200, 4000
	RLF	RLFW	800, 1600, 2000
	LA	LAW	600, 800, 1600
	LAF	LAFW	600, 800, 1600
General Electric	AK-15/25	AKW	800
	AKR-30/H	AKW	800
	AK/AKR-50/H	AKW	1600
	AKRT-50/H	AKW	2000
	AK-75	AKW	3200
	AK-100	AKW	4000
	AKU-25	AKFW	800
	AKRU-30	AKFW	800
	AKRU-50	AKFW	1600

Manufacturer	Original Model	Replacement Model	Amperage (A)
ITE/ABB	K Line	KLW	800, 1600, 2000, 3000, 4000
	K Don	KLFW	800, 1600
Westinghouse	DB-15	DBW	225
	DB-25	DBW	600
	DB-50	DBW	1600
	DB-75	DBW	3000
	DB-100	DBW	4000
	DS-206	DSW	800
	DS-206S	DSW	800
	DS-416	DSW	1600
	DS-416S	DSW	1600
	DS-420	DSW	2000
	DS-632	DSW	3200
	DS-840	DSW	4000
	DSL-206	DSFW	800
	DSL-416	DSFW	1600

Trip units

Features and Characteristics	Analog Trip Unit	ETU745	ETU748	ETU776
Long-time overcurrent protection (L)	✓	✓	✓	✓
Short-time delayed overcurrent protection (S)	✓	✓	✓	✓
Instantaneous overcurrent protection (I)	✓	✓		✓
Neutral conductor protection (N)		✓	✓	✓
Ground-fault protection	o		✓	o
Selectable neutral protection		✓	✓	✓
Defeatable short-time protection	✓	✓		✓
Defeatable instantaneous protection	✓	✓		✓
Selectable thermal memory		✓	✓	✓
Zone selective interlocking		✓	✓	✓
Selectable I2t or fixed short-time delay		✓	✓	✓
Adjustable instantaneous pick-up	✓	✓	✓	✓
Selectable I2t or I4t long-time delay		✓	✓	✓
Selectable and adjustable neutral protection		✓	✓	✓
Dual protective setting capability				✓
Dynamic Arc-Flash Sentry (DAS) or Arc Flash Mode	✓			✓
Extended Instantaneous Protection (EIP)		✓	✓	✓
Parameterization by rotary switches	✓	✓	✓	
Parameterization by communication (absolute values)				✓
Parameterization by menu / keypad (absolute values)				✓
Remote parameterization of the alarm functions				✓
Remote parameterization of the relay functions				✓
Alphanumeric display		o	o	✓
Graphical display				✓
Power metering function		o	o	o
Communication via PROFIBUS-DP		o	o	o
Communication via MODBUS		o	o	o
Communication via Ethernet (BDA)		o	o	o
Communication via dry contacts	o			
Rated for harsh enviornment applications	✓			
(✓) = standard feature, (o) = optional				

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