



DIRECT CONNECTION TO THE PRIMARY BUS

DirectRack™ low-voltage replacement circuit breakers

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

usa.siemens.com/lvreplacements

Why replacement circuit breakers?

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

Why Siemens' DirectRack™ solution?

- **Reliability and performance** with innovative design allowing the new circuit breaker to rack directly to the existing primary bus with no intermediary contacts. Intermediary contacts and associated heat generation can create points of maintenance and failure.

- **Standardized design** with Siemens WL circuit breaker used for the core operator, main contacts, and modular accessories for our complete family of low-voltage replacement circuit breaker designs, reducing spare parts and training requirements.
- **Fully type-tested** to IEEE Std C37.59, ANSI C37.50, and ANSI/IEEE Std C37.13
- **Communication features** including PROFINET IO, Modbus RTU/TCP, or PROFIBUS
- **Trip units for all applications** including ETU745, ETU776, and analog trip units.

The following circuit breaker models are available as pre-engineered designs. Other manufacturers' models can be engineered by customer request.

Manufacturer	Model
Siemens	RL, SB, LA
ABB / ITE	K Line
Westinghouse	DB, DS
GE	AK, AKR
Pringle / Eaton	QA, CBC

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Safety related features

- Visible ready-to-close indicator
- Customizable interlocking and mechanical trip indication
- Secondary contacts are mounted on the front for safe and easy access
- Available Siemens Sm@rt Dynamic Arc-Flash Sentry (DAS) provides an arc flash mitigation mode to lower the possible arc flash energy
- Available remote racking system

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

Low-voltage power circuit breaker ratings at 50/60 Hz, ANSI 240/480/600 VAC at 22 - 85 kA, 600 - 4,000 amperes

Manufacturer	Original Model	Replacement Model	Amperage (A)	Manufacturer	Original Model	Replacement Model	Amperage (A)	
Siemens / Allis-Chalmers	SBA	SBW™, SBWF™	800, 1,200, 2,000, 3,200, 5,000	Federal Pacific	FP	FPW™	800, 1,600	
	SBS	SBW, SBWF	800, 1,200, 2,000, 3,200, 5,000	ITE / ABB	K Line	KLW™	800, 1,600, 2,000, 3,000, 4,000	
	SBH	SBW, SBWF	800, 1,200, 2,000, 3,200, 5,000		K Don	KLFW™	800, 1,600	
	General Electric	RL	RLW™	800, 1,600, 2,000, 3,200, 4,000, 5,000	Westinghouse	DB-15	DBW™	225
		RLE	RLW	800, 1,600, 2,000, 3,200, 4,000		DB-25	DBW	600
		RLF	RLFW™	800, 1,600, 2,000		DB-50	DBW	1,600
		LA	LAW™	600, 800, 1,600, 3,000, 4,000		DB-75	DBW	3,000
		LAF	LAFW™	600, 800, 1,600		DB-100	DBW	4,000
		AK-15/25	AKW™	800*		DS-206	DSW™	800
		AKR-30/H	AKW	800		DS-206S	DSW	800
AK/AKR-50/H	AKW	1,600	DS-416	DSW		1,600		
AKT50	AKW	2,000*	DS-416S	DSW		1,600		
AKRT-50/H	AKW	2,000	DS-420	DSW		2,000		
AK-75	AKW	3,200	DS-632	DSW	3,200			
AK-100	AKW	4,000	DS-840	DSW	4,000			
AKU-25	AKRW™	800	DSL-206	DSFW™	800			
AKRU-30	AKRW	800	DSL-416	DSFW	1,600			
AKRU-50	AKRW	1,600	Pringle / Eaton	QA	QAW™	1,200, 3,000, 4,000		
				CBC	CBWF™	1,200, 3,000, 4,000		

*DC ratings available

Legal Manufacturer

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