

To All Customers

Rep No. C16001

April 19, 2016

Fuji Electric FA Components
& Systems Co., Ltd.

Notification regarding the Production Discontinuation of solid-state type auto-breaker SA-E and H-E Series and DC-dedicated auto-breaker SD Series

To our valued distributors:

Thank you for your continued patronage of Fuji products.

We would like to notify you of the discontinuation of some of Fuji Electric's products as described below.

Please review the following information and take appropriate actions.

Please also inform all related sections of your company about the change.

Product name	Solid-state type auto-breaker DC-dedicated auto-breaker
Series and series name	SA-E, H-E Series SD Series
Type	SA20□E, SA40□E, SA60□E, SA80□E, SA100□E, SA120□E SA160□E, SA200□E, SA250□E, SA3203C H40□E, H60□E, H80□E SD1003B, SD1203B, SD1503B, SD2003B, SD2503B, SD3203C The "□" mark indicates the number of poles. (3, 4) * The target above includes special specification types.
Reason for discontinuation of production	Due to discontinuation and streamlining of models to accompany the release of new solid-state type breaker BW-E Series
Replacement models	See Attachment 1 "Solid-State Type Auto-Breaker Replacement Comparison Table 225 - 800AF". See Attachment 2 "Solid-State Type Auto-Breaker Replacement Comparison Table 1000 - 3200AF". See Attachment 3 "DC-Dedicated Auto-Breaker Replacement Comparison Table".
Period for production discontinuation	End of September 2016
Attachments	Attachment 1: "Solid-State Type Auto-Breaker Replacement Comparison Table 225 - 800AF" Attachment 2: "Solid-State Type Auto-Breaker Replacement Comparison Table 1000 - 3200AF" Attachment 3: "DC-Dedicated Auto-Breaker Replacement Comparison Table"
Last order date	Scheduled to be the end of June 2016.
Maintenance parts	There are no maintenance parts.
Others	None

Solid-State Type Auto-Breaker Replacement Comparison Table

[225AF - 800AF]

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- Differences
- 1) For the 225AF - 1600AF rating type, the current model is designed to set the overcurrent tripping characteristic separately for a long-time delay, short-time delay and instantaneous tripping. On the other hand, the new model is designed to select the overcurrent tripping characteristic from prederet
 - 2) For the new model, the terminal cover can be mounted by the customer and thus is provided as an option.
 - 3) For the new model, the mechanical interlocking device can be mounted by the customer and thus is provided as an option.
 - 4) For the old model, the 225/400AF flat terminal with or without a bar can be selected. For the new model, however, it is only available as an option.
 - 5) The structure for 4-pole plug-in mounting of 225 - 630AF is largely different between the current and new models. Please check the details in the outline drawing.
 - 6) Below is merely a simplified version of comparison table. Be sure to check the outline drawing and specifications before making decisions.

Current product

Frame (AF)		225				400				600				800			
Series		S Series (General-purpose type)		S Series (General-purpose type)		H Series (High-performance type)		S Series (General-purpose type)		H Series (High-performance type)		S Series (General-purpose type)		H Series (High-performance type)			
Type		SA203E	SA204E	SA403E	SA404E	H403E	H404E	SA603E	SA604E	H603E	H604E	SA803E	SA804E	H803E	H804E		
Rated current (A)		Adjustable		Adjustable		Adjustable		Adjustable		Adjustable		Adjustable		Adjustable			
Rated breaking capacity (kA)	AC	-		-		20		-		20		-		20			
	690V	18		18		20		20		20		20		20			
	500V	30		30		42		35		42		35		42			
	440V	50		50		65		50		65		50		65			
	400V	50		50		65		50		65		50		65			
	230V	85		85		100		85		100		85		100			
Dimensions	Width	140	185	140	185	140	185	210	280	210	280	210	280	210	280		
	Depth	260		260		260		273		273		273		273			
	Height (Main unit)	103		103		103		103		103		103		103			
	Height (Handle)	131		131		131		145		145		145		145			
Connection	Front mounting type	○		○		○		○		○		○		○			
	Rear connection type	○		○		○		○		○		○		○			
	Flush mounting	○		○		○		○		○		○		○			
	Plug-in mounting	○		○		○		○		○		○		○			
	Pull-out mounting	-		-		-		-		-		-		-			
Standard accessory		Main unit mounting screw, interpole barrier		Main unit mounting screw, interpole barrier		Main unit mounting screw, interpole barrier		Main unit mounting screw, interpole barrier		Main unit mounting screw, interpole barrier		Main unit mounting screw, interpole barrier		Main unit mounting screw, interpole barrier			
Option accessory	Auxiliary SW (W)	○		○		○		○		○		○		○			
	Alarm SW (K)	○		○		○		○		○		○		○			
	Shunt trip (F)	○		○		○		○		○		○		○			
	Under voltage trip(R)	○		○		○		○		○		○		○			
	Motor driven operating mechanism (M)	○		○		○		○		○		○		○			
	Lead wire terminal block	○		○		○		○		○		○		○			
	Mechanical interlocking device	○		○		○		○		○		○		○			
Terminal cover	○		○		○		○		○		○		○				

New product

Frame (AF)		225				400				630				800			
Series		S Series (General-purpose type)		S Series (General-purpose type)		H Series (High-performance type)		S Series (General-purpose type)		H Series (High-performance type)		S Series (General-purpose type)		H Series (High-performance type)			
Type		BW225RAE-3P BW225RAE-4P		BW400RAE-3P BW400RAE-4P				BW630RAE-3P BW630RAE-4P		H Series (High-performance type)		BW800RAE-3P BW800RAE-4P		H Series (High-performance type)			
Rated current		Adjustable		Adjustable				Adjustable				Adjustable					
		125-150-175-200-225		175-200-225-250-300-350-400				250-300-350-400-500-600-630				350-400-450-500-600-700-800					
Rated breaking capacity (kA)	AC	7.5/7.5		20/15				20/20				20/20					
	690V	25/25		30/30				30/30				30/30					
	500V	50/25		45/45				50/50				50/50					
	440V	65/35		50/50				50/50				50/50					
	400V	85/85		85/85				85/85				85/85					
	230V																
Dimensions	Width	105	140	140	185	No replacement available.				210	280	210	280	No replacement available.			
	Depth	165		260						273		273					
	Height (Main unit)	103		103						103		103					
	Height (Handle)	127		145						145		145					
Connection	Front mounting type	○		○		No replacement available.				○		○		No replacement available.			
	Rear connection type	○		○						○		○					
	Flush mounting	○		○						○		○					
	Plug-in mounting	○		○						○		○					
	Pull-out mounting	-		-						-		-					
Standard accessory		Main unit mounting screw, interpole barrier		Main unit mounting screw, interpole barrier						Main unit mounting screw, interpole barrier							
Option accessory	Auxiliary SW (W)	○		○						○		○					
	Alarm SW (K)	○		○						○		○					
	Shunt trip (F)	○		○						○		○					
	Under voltage trip(R)	○		○						○		○					
	Motor driven operating mechanism (M)	○		○						○		○					
	Lead wire terminal block	○		○						○		○					
Mechanical interlocking device	(○) Optional BW9M1GE-3	(○) Optional BW9M1GE-4	(○) Optional BW9M1HE-3	(○) Optional BW9M1HE-4					(○) Optional BW9M1ME-3	(○) Optional BW9M1ME-4	(○) Optional BW9M1ME-3	(○) Optional BW9M1ME-4					
Terminal cover (Front mounting type)	(○) Optional BW9BTGE-3	(○) Optional BW9BTGE-4	(○) Optional BW9BTHE-3	(○) Optional BW9BTHE-4					(○) Optional BW9BTME-3	(○) Optional BW9BTME-4	(○) Optional BW9BTME-3	(○) Optional BW9BTME-4					

Solid-State Type Auto-Breaker Replacement Comparison Table

[1000AF - 3200AF]

Fuji Electric FA Components & Systems Co., Ltd.

- Differences
- 1) For the 225AF - 1600AF rating type, the current model is designed to set the overcurrent tripping characteristic separately for long-time delay, short-time delay and instantaneous tripping. On the other hand, the new model is designed to select the overcurrent tripping characteristic from predetermined 5 to 7 types.
 - 2) For the new model, the terminal cover can be mounted by the customer and thus is provided as an option.
 - 3) For the new model, the mechanical interlocking device can be mounted by the customer and thus is provided as an option.
 - 4) For the old model, the 225/400AF flat terminal with or without a bar can be selected. For the new model, however, it is only available as an option.
 - 5) The structure for 4-pole plug-in mounting of 225 - 630AF is largely different between the current and new models. Please check the details in the outline drawing.
 - 6) Below is merely a simplified version of comparison table. Be sure to check the outline drawing and specifications before making decisions.

[Current product]

Frame (AF)		1000		1200		1600		2000		2500		3200
Series		S Series (General-purpose type)		S Series (General-purpose type)		S Series (General-purpose type)		S Series (General-purpose type)		S Series (General-purpose type)		S Series (General-purpose type)
Type		SA1003E	SA1004E	SA1203E	SA1204E	SA1603E	SA1604E	SA2003E	SA2004E	SA2503E	SA2504E	SA3203C
Rated current (A)		Adjustable 500-600-700-800-900-1000		Adjustable 600-700-800-1000-1200		Adjustable 800-900-1000-1200-1400-1600		Adjustable 1000-1200-1400-1600-1800-2000		Adjustable 1200-1400-1600-2000-2500		Adjustable 1600-2000-2500-2800-3200
Rated breaking capacity (kA)	AC	690V	25	25	25	45	45	45	45	45	45	45
	600V	25		25		45		45		45		-
	500V	45		45		65		65		65		65
	440V	65		65		85		85		85		85
	400V	65		65		85		100		100		85
230V	100		100		125		125		125		125	
Dimensions	Width	210	280	210	280	210	280	320	429	320	429	320
	Depth	370		370		370		450		450		450
	Height (Main unit)	120		120		140		225		185		185
	Height (Handle)	171		171		191		285		245		245
Connection	Front mounting type	○		○		○		○		○		-
	Rear connection type	○		○		○		○		○		○
	Flush mounting	○		○		○		○		○		-
	Plug-in mounting	○		○		-		-		-		-
Pull-out mounting	-		-		○		○		-		-	
Standard accessory		Main unit mounting screw, interpole barrier auxiliary handle		Main unit mounting screw, interpole barrier auxiliary handle		Main unit mounting screw, interpole barrier auxiliary handle		Main unit mounting screw, auxiliary handle		Main unit mounting screw, auxiliary handle		Main unit mounting screw, auxiliary handle
Option accessory	Auxiliary SW (W)	○		○		○		○		○		○
	Alarm SW (K)	○		○		○		○		○		○
	Shunt trip (F)	○		○		○		○		○		○
	Under voltage trip(R)	○		○		○		○		○		○
	Motor driven operating mechanism (M)	○		○		○		○		○		○
	Lead wire terminal block	○		○		○		○		○		○
	Mechanical interlocking device	○		○		-		-		-		-
Terminal cover	○		○		-		-		-		-	

[New product]

Frame (AF)		1000		1250		1600		2000		2500		3200
Series		S Series (General-purpose type)		S Series (General-purpose type)		S Series (General-purpose type)		S Series (General-purpose type)		S Series (General-purpose type)		S Series (General-purpose type)
Type		BW1000RAE-3P	BW1000RAE-4P	BW1250RAE-3P	BW1250RAE-4P	BW1600RAE-3P	BW1600RAE-4P	BW2000RAE-3P	BW2000RAE-4P	BW2500RAE-3P	BW2500RAE-4P	BW3200RAE-3P
Rated current		Adjustable 400-500-600-700-800-900-1000		Adjustable 500-600-700-800-1000-1200-1250		Adjustable 700-800-900-1000-1200-1400-1500-1600		Adjustable 1000-1200-1400-1600-1800-2000		Adjustable 1200-1400-1600-2000-2500		Adjustable 1600-2000-2500-2800-3200
Rated breaking capacity (kA)	AC	690V	25/19	25/20	45/34	45/34	45/34	45/42	45/42	45/42	45/42	45/42
	500V	45/34		45/34		65/50		65/50		65/50		65/50
	440V	65/50		65/50		85/65		85/65		85/65		85/65
	400V	65/50		70/50		85/65		85/65		85/65		85/65
	230V	100/75		100/75		125/94		125/94		125/94		125/94
Dimensions	Width	210	280	210	280	210	280	320	429	320	429	320
	Depth	273		370		370		450		450		450
	Height (Main unit)	103		120		140		225		185		185
	Height (Handle)	145		171		191		285		245		245
Connection	Front mounting type	○		○		○		○		-		-
	Rear connection type	○		○		○		○		○		○
	Flush mounting	○		○		○		○		○		-
	Plug-in mounting	-		○		-		-		-		-
Pull-out mounting	-		-		-		-		-		-	
Standard accessory		Main unit mounting screw, interpole barrier		Main unit mounting screw, interpole barrier auxiliary handle		Main unit mounting screw, interpole barrier auxiliary handle		Main unit mounting screw, interpole barrier auxiliary handle		Main unit mounting screw, interpole barrier auxiliary handle		Main unit mounting screw
Option accessory	Auxiliary SW (W)	○		○		○		○		○		○
	Alarm SW (K)	○		○		○		○		○		○
	Shunt trip (F)	○		○		○		○		○		○
	Under voltage trip(R)	○		○		○		○		○		○
	Motor driven operating mechanism (M)	○		○		○		○		○		○
	Lead wire terminal block	○		○		○		○		○		○
	Mechanical interlocking device	(○) Optional BW9M1ME-3	(○) Optional BW9M1ME-4	(○) Optional BW9M1QE-3	(○) Optional BW9M1QE-4	-		-		-		-
Terminal cover (Front mounting type)	(○) Optional BW9BTME-3	(○) Optional BW9BTME-4	○ (Specify at the time of order)		-		-		-		-	

DC-Dedicated Auto-Breaker Replacement Comparison Table [1000AF - 3200AF]

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- [Differences] 1) For the new model, the terminal cover can be mounted by the customer and thus is provided as an option.
 2) Below is merely a simplified version of comparison table. Be sure to check the outline drawing and specifications before making decisions.

[Current product]

Frame (AF)		1000	1200	1600	2000	2500	3200
Series		SD Series (General-purpose type)	SD Series (General-purpose type)	SD Series (General-purpose type)	SD Series (General-purpose type)	SD Series (General-purpose type)	SD Series (General-purpose type)
Type		SD1003B	SD1203B	SD1603B	SD2003B	SD2503B	SD3203C
Rated current (A)		1000	1200	1600	2000	2500	3200
Rated insulation voltage (V) DC		500	500	500	500	500	690
Rated breaking capacity (kA)	DC	600V	-	-	-	-	20
		500V	20	20	20	20	50
		250V	40	40	40	40	50
Dimensions	Width	210	210	210	320	320	320
	Depth	273	370	370	450	450	450
	Height (Main unit)	103	140	140	185	225	185
	Height (Handle)	145	191	191	245	285	245
Connection	Front mounting type	○	○	○	○	-	-
	Rear connection type	-	-	-	-	○	○
	Flush mounting	-	-	-	-	-	○
Standard accessory		Main unit mounting screw, interpole barrier	Main unit mounting screw, interpole barrier	Main unit mounting screw, interpole barrier	Main unit mounting screw	Main unit mounting screw	Main unit mounting screw
Option accessory	Auxiliary SW (W)	○	○	○	○	○	○
	Alarm SW (K)	○	○	○	○	○	○
	Shunt trip (F)	○	○	○	○	○	○
	Under voltage trip(R)	○	○	○	○	○	○
	Motor driven operating mechanism (M)	○	○	○	○	○	○
	Lead wire terminal block	○	○	○	○	○	○

[New product]

Frame (AF)		1000	1200	1600	2000	2500	3200
Series		S Series (General-purpose type)	S Series (General-purpose type)	S Series (General-purpose type)	S Series (General-purpose type)	S Series (General-purpose type)	S Series (General-purpose type)
Type		BW1000RAE-3P-C6	BW1250RAE-3P-C6	BW1600RAE-3P-C6	BW2000RAE-3P-C6	BW2500RAE-3P-C6	BW3200RAE-3P-C6
Rated current		1000	1250	1600	2000	2500	3200
Rated insulation voltage (V) DC		690	690	690	690	690	690
Rated breaking capacity (kA)	DC	600V	20/10	20/15	20/15	20/15	20/15
		500V	20/10	50/25	50/25	50/25	50/25
		350V	35/15	50/25	50/25	50/25	50/25
		250V	50/20	50/30	50/30	50/30	50/30
Dimensions	Width	210	210	210	320	320	320
	Depth	273	370	370	450	450	450
	Height (Main unit)	103	120	140	225	185	185
	Height (Handle)	145	171	191	285	245	245
Connection	Front mounting type	○	○	○	○	-	-
	Rear connection type	-	-	-	-	○	○
Standard accessory		Main unit mounting screw, interpole barrier	Main unit mounting screw, interpole barrier auxiliary handle	Main unit mounting screw, interpole barrier auxiliary handle	Main unit mounting screw, interpole barrier auxiliary handle	Main unit mounting screw, interpole barrier auxiliary handle	Main unit mounting screw
Option accessory	Auxiliary SW (W)	○	○	○	○	○	○
	Alarm SW (K)	○	○	○	○	○	○
	Shunt trip (F)	○	○	○	○	○	○
	Under voltage trip(R)	○	○	○	○	○	○
	Motor driven operating mechanism (M)	○	○	○	○	○	○
	Lead wire terminal block	○	○	○	○	○	○
	Terminal cover (Front mounting type)	(○) Optional BW9BTME-3	○ (Specify at the time of order)	-	-	-	-