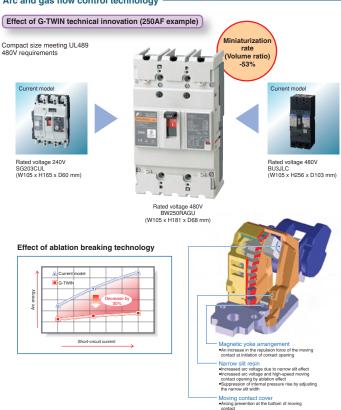
### **Compact & High performance**

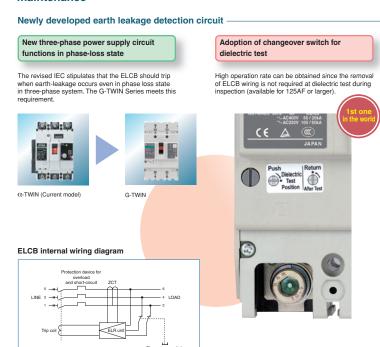
#### Compact models with unified dimensions meeting UL489 480V and IEC 440V requirements

Arc and gas flow control technology



# Safety & easy maintenance

Satisfying the latest IEC 60947-2 requirements with improved maintenance

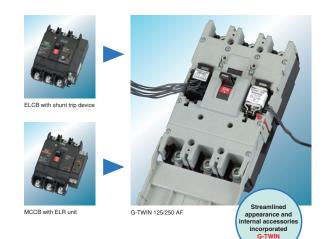


### Easy to use

### **Pursuiting user-friendly products**

### Unifying and reducing the types of internal accessories

- Sharing internal accessories of 125/250AF breakers.
  The shunt trip (F) and undervoltage trip (R) devices can be installed inside the G-TWIN Series ELCB.
  The number of types of internal accessories of 400/630/800AF has been significantly reduced.

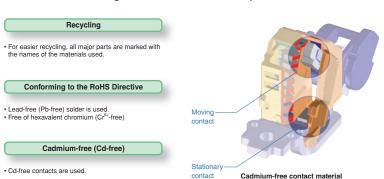


Number of types of internal accessories [No. of t											
AF	α-TWIN		G-TWIN								
100/125	8	16	8								
225/250	8	10	0								
400											
600/630		26	6								
000											

### **Ecology**

#### Advanced environmental technology **Conforming to the RoHS Directive**

#### The G-TWIN series is designed to lower environmental impact.

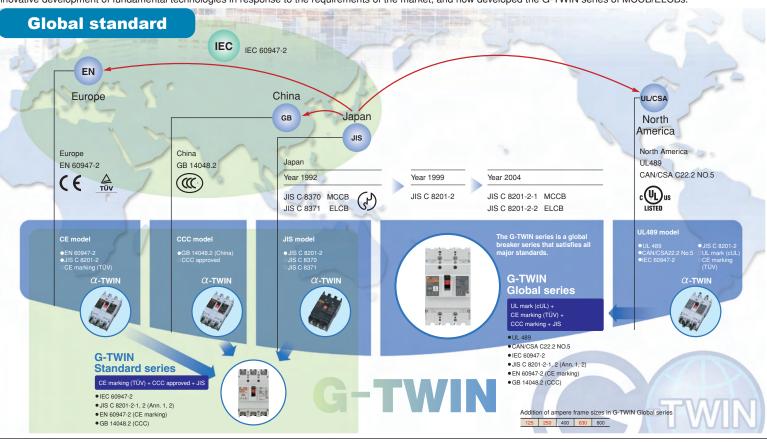




## Fuji Electric Corp. of America

USEH132

Fuji Electric launched the Twin Breaker series to world markets in 1990, in which molded case circuit breaker (MCCB) and earth leakage circuit breaker (ELCB) types were unified in external dimensions for the first time in the world. The Twin Breaker series was highly evaluated and gained strong support. Based on the Twin Breaker series, Fuji Electric has expanded the range of its products conforming to and approved by international standards for global customers, advanced the innovative development of fundamental technologies in response to the requirements of the market, and now developed the G-TWIN series of MCCB/ELCBs.



Fuji Electric Corp. of America URL http://www.fujielectric.com

2008-4 PDF FIS USEH132 Information in this catalog is subject to change without notice.



	G-1 Willy glob	ai se	1162																Avai	labie	Availa	Die
Ampere frame 50A 100A							125A 250A					400A				630A SOON		800A 50011				
Туре				SA52RCUL	SA53RCUL	EA102CUL	EA103CUL	BW125JAGU	BW125RAGU	BW250	DEAGU	BW250JAGU	BW25	0RAGU	BW400EAGU	BW400SAGU	BW400RAGU	BW400HAGU	BW630RAGU	BW630HAGU	BW800RAGU	BW800HAGU
Pole				2	3	2	3	2 3	2 3	2	3	2 3	2	3	2 3	2 3	2 3	2 3	3	3	3	3
Rated current	Reference amb. temp. (40°C	) In(A)		3, 5, 10, 15, 20, 30, 4	0, 50	60, 70, 75, 80, 90, 10	0	15, 20, 30, 40, 50,	60, 70, 75, 80, 90, 10	0, 125 125, 15	50, 160, 175, 20	0, 225, 250			250, 300, 350, 400				500, 630		700, 800	
Phase and wire		1ø2W	3ø3W	1ø2W	3ø3W	1ø2W 3ø3W	1ø2W 3ø3V	N 1ø2W	3ø3W	1ø2W 3ø3W	1ø2W	3ø3W	1ø2W 3ø3W	1ø2W 3ø3V	1ø2W 3ø3W	1ø2W 3ø3W	3ø3W	3ø3W	3ø3W	3ø3W		
Isolation compli	iant			•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	•
Rated insulation	n voltage Ui (V)	AC		690	690	690	690	690	690	690		690	690		690	690	690	690	690	690	690	690
		DC		-	-	_	_	250	250	250		250	250		250	250	250	250	250	250	250	250
Rated breaking	UL489	AC	600V/Δ	_	-	-	_		-	-		-	-		-	-	_	25	-	25	-	25
capacity	CAN/CSA C22.2 NO.5		600V/Y	_	-	-	-	10 10	18	-		10	25		-	-	-	25	-	25	25	25
	(kA)		480V/Δ	_	-	-	-	- 30	50	-		30	50		-	35	50	65 (With block terminal:50)	50	65 (With block terminal:50)	50	65 (With block terminal:
			480V/Y	_	-	-	_	30 30	50	-		30	50		_	35	50	65 (With block terminal:50)	50	65 (With block terminal:50)	50	65 (With block terminal:
			240V	14	14	14	14	50 50	100	22		50	100		22	50	100	125	100	125	100	125
		DC	250V	_	-	-	-	10 10	10	10		10	10		10	10	10	10	10	10	10	10
	IEC 60947-2	AC	690V		-	-	-	-	5/3	-		-	5/3		_	10/5	15/8	15/8	15/8	15/8	15/8	15/8
	JIS C 8201-2-1		500V	7.5/4	7.5/4	7.5/4	7.5/4	15/8	36/18	10/5		18/9	36/18		18/9	20/10	36/18	42/21	36/18	42/21	36/18	42/21
	Ann. 1,2		440V	10/5	10/5	10/5	10/5	30/15	50/25	18/9		30/15	50/25		30/15	36/18	50/25	70/35	50/25	70/35	50/25	70/35
	Icu/Ics (kA)		415V	10/5	10/5	10/5	10/5	30/15	50/25	18/9		30/15	50/25		30/15	36/18	50/25	70/35	50/25	70/35	50/25	70/35
			400V	10/5	10/5	10/5	10/5	30/15	50/25	18/9		30/15	50/25		30/15	36/18	50/25	70/35	50/25	70/35	50/25	70/35
			380V	10/5	10/5	10/5	10/5	30/15	50/25	18/9		30/15	50/25		30/15	36/18	50/25	70/35	50/25	70/35	50/25	70/35
			240V	_	-	-	-	50/25	100/50	36/18		50/25	100/50		50/25	85/43	100/50	125/63	100/50	125/63	100/50	125/63
			230V	25/13	25/13	25/13	25/13	50/25	100/50	36/18		50/25	100/50	0	50/25	85/43	100/50	125/63	100/50	125/63	100/50	125/63
		DC	250V	_	-	-	-	15/8	40/20	10/5		20/10	40/20		20/10	20/10	40/20	40/20	40/20	40/20	40/20	40/20
	GB14048.2	AC	400V	_	-	-	_	30/15	50/25	18/9		30/15	50/25		30/15	36/18	50/25	70/35	50/25	70/35	50/25	70/35
	Icu/Ics (kA)		230V	-	-	-	_	50/25	100/50	36/18		50/25	100/50	0	50/25	85/43	100/50	125/63	100/50	125/63	100/50	125/63
Standard	UL approved			•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	•
certified	CCC approved			-	-	-	_	•	•	•		•	•		•	•	•	•	•	•	•	•
	CE Marking certified (TÜ\			•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	•
	Electrical Appliance and Mat	erial Safety	Law <ps>E*</ps>		•	•	•	• (except for 125)		- ,		-	-		-	-	-	-	-	-	-	
Dimensions	- a -   - d -   - C -		а	1.969 (50)	2.953 (75)	1.969 (50)	2.953 (75)	2.362 (60) 3.543	. , , ,	4.134 (	/	4.134 (105)	4.134	` '	5.512 (140)	5.512 (140)	5.512 (140)	5.512 (140)	8.268 (210)	8.268 (210)	8.268 (210)	8.268 (210)
(inch (mm))			b	4.724 (120)	4.724 (120)	4.724 (120)	4.724 (120)	6.732 (171)	6.732 (171)	7.126 (	,	7.126 (181)	7.126		10.12 (257)	10.12 (257)	10.12 (257)	10.12 (257)	10.83 (275)	10.83 (275)	10.83 (275)	10.83 (275)
			С	2.362 (60)	2.362 (60)	2.362 (60)	2.362 (60)	2.677 (68)	2.677 (68)	2.677 (	,	2.677 (68)	2.677	` '	4.055 (103)	4.055 (103 )	4.055 (103)	4.055 (103 )	4.055 (103)	4.055 (103)	4.055 (103)	4.055 (103)
			d	3.307 (84)	3.307 (84)	3.307 (84)	3.307 (84)	3.740 (95)	3.740 (95)	3.740 (	(95)	3.740 (95)	3.740	(95)	5.748 (146)	5.748 (146)	5.748 (146)	5.748 (146)	5.748 (146)	5.748 (146)	5.748 (146)	5.748 (146)



# **ELCB**

G-TWIN global series															
Ampere frame				50A	100A		125A		250A		400A				
Туре	Type SG53RCUL				EG102CUL	EG103CUL	EW125JAGU EW125RAGU		EW250JAGU	EW250RAGU	EW400SAGU	EW400RAGU	EW400HAGU		
Pole				3	2	3	3	3	3	3	3	3			
Rated current F	Reference amb. temp. (40°C)	In(A)		3, 5, 10, 15, 20, 30, 40, 50	60, 70, 75, 80, 90, 100		15, 20, 30, 40, 50, 60, 75, 100, 125		125, 150, 160, 175, 200, 225, 250		250, 300, 350, 400				
Phase and wire				1ø2W, 1ø3W, 3ø3W	1ø2W	1ø2W, 1ø3W, 3ø3W	1ø2W, 1ø3W, 3ø3W	1ø2W, 1ø3W, 3ø3W	1ø2W, 1ø3W, 3ø3W	1ø2W, 1ø3W, 3ø3W	1ø2W, 1ø3W, 3ø3W	1ø2W, 1ø3W, 3ø3W			
Isolation complia	solation compliant			•	•	•	•	•	•	•	•	•	•		
Rated voltage (A	AC V)	UL		240	240	240	240-480	240-480	240-480	240-480	240-480	240-480	240-480		
		IEC		100-230-440	100-230	100-230-440	100-230-440	100-230-440	100-230-440	100-230-440	100-230-440	100-230-440	100-230-440		
Type of earth lea	pe of earth leakage trip action			AC type		AC type			AC type	AC type	AC type	AC type	AC type		
Instantaneous	Rated sensitive current (m	ıA)		30, 50, 100/200/500 changeover	30, 50, 100/200 changeover	30, 50, 100/200/500 changeover	30	30	30	30	30	30	30		
trip type	Tripping time (s)		0.1 or less		0.1 or less			0.1 or less	0.1 or less	0.1 or less	0.1 or less	0.1 or less	0.1 or less		
Instantaneous	Rated sensitive current (m	ıA)		_	-		100/200/500/1000 changeover	100/200/500/1000 changeover	100/200/500/1000 changeover	100/200/500/1000 changeover	100/200/500/1000 changeover	100/200/500/1000 changeover 100/200/500/1000 changeover			
/time-delay	Tripping time (s)			_	-	_	0.1/0.4/1/2 changeover	0.1/0.4/1/2 changeover	0.1/0.4/1/2 changeover	0.1/0.4/1/2 changeover	0.1/0.4/1/2 changeover	0.1/0.4/1/2 changeover	0.1/0.4/1/2 changeover		
trip type	Inertia non-tripping time (s	) (2l∆n)		_	-	_	0/0.2/0.5/1	0/0.2/0.5/1	0/0.2/0.5/1	0/0.2/0.5/1	0/0.2/0.5/1	0/0.2/0.5/1	0/0.2/0.5/1		
Rated breaking	UL489	AC	480V/∆	_	-	_	30	50	30	50	35	50	65 (With block terminal: 50)		
capacity	CAN/CSA C22.2 NO.5		480V/Y	_	-	_	30	50	30	50	35	50	65 (With block terminal: 50)		
	(kA)		240V	14	14		50	100	50	100	50	100	125		
	IEC 60947-2	AC	440V	10/5	-	10/5	30/15	50/25	30/15	50/25	36/18	50/25	70/35		
	JIS C 8201-2-2		415V	_	-		30/15	50/25	30/15		36/18	50/25	70/35		
	Ann. 1,2		400V	10/5	-		30/15	50/25	30/15		36/18	50/25	70/35		
	Icu/Ics (kA)		380V	_	-		30/15	50/25	30/15		36/18	50/25	70/35		
			240V	_	-		50/25	100/50	50/25		85/43	100/50	125/63		
			230V	25/13			50/25	100/50	50/25		85/43	100/50	125/63		
			100V	25/13	10/5		50/25	100/50	50/25		85/43	100/50	125/63		
	GB14048.2	AC	400V	_	-		30/15	50/25	30/15		36/18	50/25	70/35		
	Icu/Ics (kA)		230V	-	-	_	50/25	100/50	50/25	100/50	85/43	100/50	125/63		
	UL approved			•	•	•	•	•	•	•	•	•			
certified	CCC approved			-			•	•	•	•	•	•	•		
	CE Marking certified (TÜV)		•	•	•	•	•	•	•	•	•	•			
	Electrical Appliance and Mate	Appliance and Material Safety Law <ps>E*</ps>		•	•		(except for 125A)	• (except for 125A)	-	-	-	-	-		
Dimensions	+ a →   + d →   + C +		а	2.953 (75)	` '	· /	` '	3.543 (90)	4.134 (105)	,	` '	5.512 (140)	5.512 (140)		
(inch (mm))			b	4.724 (120)	, ,	,	6.732 (171)	6.732 (171)	7.126 (181)	7.126 (181)	10.12 (257)	10.12 (257)	10.12 (257)		
			С	2.362 (60)	. , ,	. ,	. ,	2.677 (68)	2.677 (68)	2.677 (68)	4.055 (103)	4.055 (103)	4.055 (103)		
		<u> </u>		3.307 (84)	3.307 (84)	3.307 (84)	3.740 (95)	3.740 (95)	3.740 (95)	3.740 (95)	5.748 (146)	5.748 (146)	5.748 (146)		