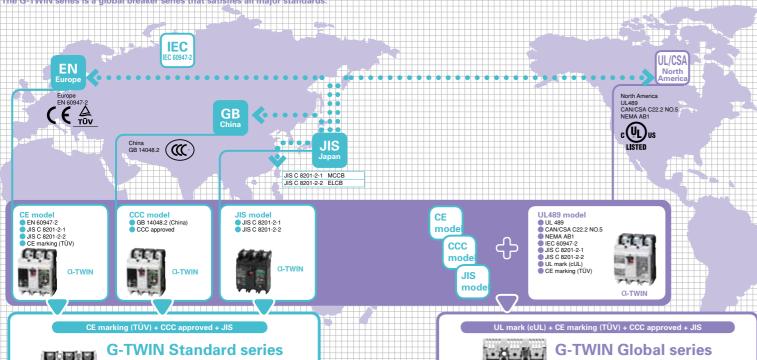
GLOBAL-TWIN

Conforming to IEC & local Standards



EN 60947-2 (CE marking)

GB 14048.2 (CCC)

JIS C 8201-2-1

JIS C 8201-2-2

Compact & High performance

32 50 63 100 125 160 250 400 630 800

Usefulness Leading the way in user-friendliness

EC 60947-2

EN 60947-2 (CE marking)

GB 14048.2 (CCC)

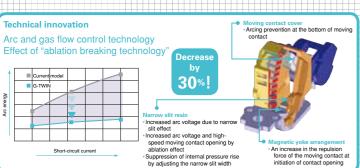
JIS C 8201-2-1

JIS C 8201-2-2

50 100 125 250 400 630

UL 489CAN/CSA C22.2 NO.5NEMA AB1





An increase in the repulsion force of the moving contact at initiation of contact opening Suppression of internal pressure rise by adjusting the narrow slit width

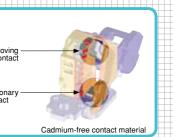
Ecology

Advanced environmental technology Conforming to the RoHS Directive The G-TWIN Series is designed to lower

nvironmental impact.

For easier recycling, all major parts are marked with the names of the materials used. ng to the RoHS Dir

Lead-free (Pb-free) solder is used. Free of hexavalent chromium (Cr⁶⁺-free) (125 to 800AF)



Internal and external accessories
 A wider range of customer-mountain







FUJI Earth Leakage Circuit Breakers





Fuji Electric FA Components & Systems Co., Ltd.

The Twin Breakers have advanced to an entirely new stage.

Conforming to IEC & local **Standards**



Compact &

performance

High





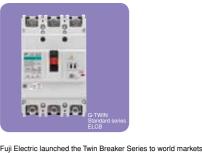
Fuji Electric FA Components & Systems Co., Ltd.

5-7, Nihonbashi Odemma-cho, Chuo-ku, Tokyo 103-0011, Japan Phone: +81-3-5847-8041 Fax: +81-3-5847-8171 URL http://www.fujielectric.co.jp/fcs/eng/

FUJI MCCB and ELCB GLOBAL TWIN

Ecology

Advanced green engineering and energy-saving support Conforming to the RoHS





Usefulness

Leading the way in

user-friendliness

and the concept of Twin Breakers was established as Japan's de facto standards for MCCBs and ELCBs.
In 1992, Fuji Electric released the Super Twin Breaker Series, which enabled user installation of internal accessories for the first time in Japan.

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,

In 1995, Fuji Electric released the Super 60 Series and advanced modularization via uniform external dimensions. In 2001, Fuji Electric launched the a-Twin Series to further advance the miniaturization and modularization of economic types with 100A frame or less as Japan's first multi-standard circuit breakers satisfying domestic and international

standards. Since then, Fuji Electric has been making further product improvements by predicting market trends. In recent years, market globalization has increasingly accelerated.

At the end of 2004, the Japanese Industrial Standards (JIS) were aligned with the IEC standards, and the globalization in this field has been further accelerated.

Based on the Twin Breaker Series, Fuji Electric has expanded

the range of its products conforming to and approved by international standards for global markets, always advanced the innovative development of fundamental technologies in response to the market demand, and developed the G-TWIN

Fuji Electric Taiwan Co.,Ltd.

10F.,No.168,Songjiang Rd.,Taipei City 10459,Taiwan(R.O.C) Phone: +886-2-2511-1820 Fax: +886-2-2511-1830

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FUJI Earth Leakage Circuit Breakers

G-TWIN series CNS5422(IEC/EN60947-2, GB14048.2, JISC8201-2-2)			32AF								63AF	100AF			125AF						
Туре			EW32AAG	3	EW32EAG	EW32SAG	EW50AAG	EW50EAG	EW50SAG	EW50RAG	EW63EAG	EW63SAG	EW63RAG	EW100AAG	EW100EA		EW125JAG		EW125RAG		EW125HAG
Pole			2	3	3	3	2 3	3	3	3	3	3	3	3	2	3	3	4*2	3	4	3
Rated current In [A]			A] 5, 10, 15, 20, 30, (32)*2		3, 5, 10, 15, 20, 30, (32)*2	5, 10, 15, 20, 30, (32)*2, 40, 50		10, 15, 20, 30, (32)*2, 40, 50	60, (63)*2			60, (63)* ² , 75, 100	50, 60, (63	3)*2, 75, 100	15, 20, 30,	10, 50, 60, 75	5, 100, 125				
Rated impulse withstand voltage Uimp [kV]			2.5	4	4	4	2.5 4	6	6	6	6			4	4	6	6				
Isolation compliant			Approved				Approved				Approved	Approved			Approved						
Rated voltage	Rated voltage Ue [V AC		[] 100-230 100-230-		100-230-440	100-230-440	100-230 100-230-440		100-230-440	100-230-440	100-230-440			100-230	100-230 100-230- 440		100-230-440				
Instantaneous trip type Rated sen		sensitive current [mA]	A] 15, 30, 100		15, 30, 100 30, 100/200/500		15, 30, 100 15, 30, 100/200		30, 100/200/500	30, 100/200/500	15, 30, 100/200 30, 100/200/500 30, 100/20		30, 100/200/500	30, 100/200	30, 100/200/500		30				
	Tripping time [s		0.1			0.1				0.1		0.1			0.1						
Instanteneous/time delay trip type	Instanteneous/time delay trip type Rated sensitive current [mA Tripping time [s Inertia non-tripping time [s		-			-			-	-	-			-	-		100/200/500/1000 changeover				
					-	-	-	-	-	-	-	-	-	-		0.1/0.4/1/2 changeover					
			-			-	-	-	-	-	_	-	-	-	-		0/0.2/0.5/1				
Rated frequency	Rated frequency [Hz						50-60				50-60			50-60			50-60				
Rated breaking capacity Icu/lcs [kA] CNS5422 IEC60947-2 EN60947-2 JIS8201-2-2	AC	440V 415V 400V 380V	_		1.5/1	2.5/2	-	2.5/2	7.5/4	10/5	2.5/2	7.5/4	10/5	-	-	10/5	30/15		50/25		65/17
		240V	-		-	-	-	-	-	-	-	-	-	-	-	-	50/25		100/50		125/63
		230V	2.5/2		2.5/2	5/3	2.5/2	5/3	10/5	25/13	5/3	10/5	25/13	5/3	10/5	25/13					
		100V	2.5/2	5/3	5/3		2.5/2 5/3														
GB14048.2	AC	400V	-		1.5/1	2.5/2	-	2.5/2	7.5/4	10/5	2.5/2	7.5/4	10/5	-	-	10/5	30/15		50/25		65/17
		230V	2.5/2		2.5/2	5/3	2.5/2	5/3	10/5	25/13	5/3	10/5	25/13	5/3	10/5	25/13	50/25		100/50		125/63
Dimensions		[mm] a	50	75	75	75	50 75	75	75	75	75	75	75	75	75		90	120	90	120	90
-ad-		b	100		100	100	100	100	100	100	100	100	100	100	100		155		155		155
		С	60		60	60	60	60	60	60	60	60	60	60	60		68		68		68
		d	84		84	84	84	84	84	84	84	84	84	84	84		95		95		95
Mass		[kg]	0.4	0.5	0.5	0.6	0.4 0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6		1.3	1.7	1.3	1.7	1.3
Tripping device			Hydraulic-magnetic Thermal-magnetic																		

G-TWIN CNS5422(IEC/EN60947-2, GB	50AF					400AF					630AF			800AF							
Туре		EW250EAG	EW250JA	G	EW250RAG	EW250HAG	EW400EAG	EW400SAG	EW400RA	AG .	EW400H	AG	EW630EAG	EW630RAG	EW630HAG	EW800EAG	EW800RAG	EW800HAG			
Pole	3		4* ²	3 4	3	3	3	1	-		4		3	3	3	3	3				
Rated current		In [A]	125, 150, 160, 17	5, 200, 225, 2	250* ¹			250, 300, 350, 400	250, 300, 350, 400					500, 600, 630			700, 800				
Rated impulse withstand voltag	Uimp [kV]	6					6	6					6			6					
Isolation compliant			Approved					Approved	Approved								Approved				
Rated voltage		Ue [V AC]	100-230-440					100-230-440	100-230-440								100-230-440				
Instantaneous trip type	30					30						-			-						
	0.1					0.1					-			-							
Instanteneous/time delay trip typ	100/200/500/1000	changeover				100/200/500/1000 changeover					100/200/500/1000 changeover			100/200/500/1000 changeover							
	0.1/0.4/1/2 changeover					0.1/0.4/1/2 changeover					0.1/0.4/1/2 changed	over		0.1/0.4/1/2 changeover							
	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 frequency	50-60				50-60							50-60			50-60						
Rated breaking capacity Icu/lcs [kA] EN60947-2 JIS8201-2-2	AC	440V 415V 400V 380V	18/9	30/15		50/25	65/17	30/15	36/18	50/25		70/35		36/18	50/25	70/35	36/18	50/25	70/35		
		240V 230V 100V	36/18	50/25		100/50	125/63	50/25	85/43	100/50		125/63		50/25	100/50	125/63	50/25	100/50	125/63		
GB14048.2	AC	400V	18/9	30/15		50/25	65/17	30/15	36/18	50/25		70/35		36/18	50/25	70/35	36/18	50/25	70/35		
		230V	36/18	50/25		100/50	125/63	50/25	85/43	100/50		125/63		50/25	100/50	125/63	50/25	100/50	125/63		
Dimensions	[m	m] a	105	105	140	105 140	105	140	140	140	185	140	185	210	210	210	210	210	210		
- a - - d - - C - - C -		b	165	165		165	165	257	257	257		257		275	275	275	275	275	275		
		С	68	68		68	68	103	103	103		103		103	103	103	103	103	103		
	J	d	95	95		95	95	146	146	146		146		146	146	146	146	146	146		
Mass		[kg]	1.8	1.8	2.3	1.8 2.3	1.8	5.8	5.8	5.8	7.8	5.8	7.8	9.1	9.1	9.1	9.6	9.6	9.6		
Tripping device			Thermal-magnetic																		

	Da -							
	DV32 DV33							
	2	3						
In [A]	30							
Ue [V AC]	100-200							
[mA]	15, 30							
[s]	0.1							
[Hz]	50-60							
AC200V	1.5	1.5						
AC100V								
a	68	90						
b	70	80						
С	40	40						
d	63	63						
[kg]	0.17 0.24							
	Ground fault protection only							
	Ue [V AC] [mA] [s] [Hz] AC200V AC100V a b c	In [A] 30 Ue [V AC] 100-200 [mA] 15, 30 [s] 0.1 [Hz] 50-60 AC200V AC100V a 68 b 70 c 40 d 63 [kg] 0.17						

^{*1 4-}pole, 250A Breakers cannot be made. *2 Contact FUJI.