



FUJI Earth Leakage Circuit Breakers

Fuji Electric FA Components & Systems Co., Ltd.

The Twin Breakers have advanced to an entirely new stage.



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ETH132

FUJI MCCB and ELCB GLOBAL TWIN

Ecology

Lower environmental impa Advanced green engineering and energy-saving support Conforming to the RoHS irective





Leading the way in user-friendliness



Fuii 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, 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 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

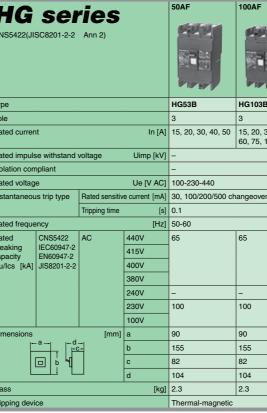
the range of its products conforming to and approved by international standards for global markets, always advanced the innovative development of fundamental technologies in response to the market demand, and developed the G-TWIN Series of MCCBs and ELCBs

FUJI Earth Leakage Circuit Breakers

G-TWIN CNS5422(IEC/EN60947-2, G			32AF			50AF				63AF			100AF			125AF			250AF			
Туре			EW32AAG	EW32EAG	EW32SAG	EW50AAG	EW50EAG	EW50SAG	EW50RAG	EW63EAG	EW63SAG	EW63RAG	EW100AAG	EW100EA	AG	EW125JAG	E	W125RAG	EW250EAG	EW250JAG	EV	V250RAG
Pole			2 3	3	3	2 3	3	3	3	3	3	3	3	2	3	3 4'	*2 3	4	3	3 4*2	3	4
Rated current In [A]		A] 5, 10, 15, 20, 30, (32)* ² (3, 5, 10, 15, 20, (32)* ²					10, 15, 20, 30, (32)* 40, 50				60, (63)* ² , 75, 100	50, 60, (6 100	0, 60, (63)* ² , 75, 15, 20, 30, 40, 50, 60, 75, 100, 125		125, 150, 160, 175, 200, 225, 250*1							
Rated impulse withstand volta	Itage	Uimp [l	V] 2.5 4	4	4	2.5 4	6	6	6	6			4	4	6	6			6			
Isolation compliant			Approved		Approved			Approved Appro			Approved	Approved		Approved		Approved						
Rated voltage		Ue [V A	C] 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			100-230-440			
Instantaneous trip type	Rated s	ensitive current [n	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, 100/200/500	30, 100/200	30, 100/2	00/500	30			30			
	Tripping	time	0.1		0.1			0.1		0.1			0.1		0.1							
Instanteneous/time delay trip type Rated s		ensitive current [n	[A] –					-	-			-	-		100/200/500/1000 changeover		100/200/500/1000 changeover					
	Tripping	time	[s] –	-	-	-	-	-	-	-	-	-	-	-		0.1/0.4/1/2 ch	nangeover		0.1/0.4/1/2 changeov	rer		
	Inertia r	non-tripping time	[s] –	-	-	-	-	-	-	-	-	-	-	-		0/0.2/0.5/1			0/0.2/0.5/1			
Rated frequency		[]	Iz] 50-60	50-60			50-60			50-60		50-60			50-60		50-60					
Rated breaking capacity Icu/Ics [kA] CNS5422 IEC60947- EN60947-2 JIS8201-2-	7-2 7-2	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	5	0/25	18/9	30/15	50/	25
		240V	-	-	-	-	-	-	-	-	-	-	-	-	-	50/25	1	00/50	36/18	50/25	100	0/50
		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	3.2 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	5	0/25	18/9	30/15	50/	25
		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	1	00/50	36/18	50/25	100	0/50
Dimensions		[mm] a	50 75	75	75	50 75	75	75	75	75	75	75	75	75		90 12	20 9	0 120	105	105 140	10	5 140
		b	100	100	100	100	100	100	100	100	100	100	100	100		155	1	55	165	165	16	5
		с	60	60	60	60	60	60	60	60	60	60	60	60		68	6	8	68	68	68	
		d	84	84	84	84	84	84	84	84	84	84	84	84		95	9	5	95	95	95	
Mass		[(g] 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	1.8	1.8 2.3	1.8	3 2.3
Tripping device			Hydraulic-magnet	c												Thermal-mag	gnetic					

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

G-TWIN series CNS5422(IEC/EN60947-2, GB14048.2, JISC8201-2-2)			400AF					630AF	3		800AF			HG CNS5422(JI	
Туре				EW400EAG	EW400SAG	EW400RAG	EW400H	HAG	EW630EAG	EW630RAG	EW630HAG	EW800EAG	EW800RAG	EW800HAG	Туре
Pole				3	3	3 4	3	4	3	3	3	3	3	3	Pole
Rated current			In [A] 250, 300, 350, 400				500, 600, 630			700, 800	700, 800			
Rated impulse w	vithstand voltage		Uimp [kV	6					6			6	6		
Isolation complia	ant			Approved					Approved			Approved			Rated impuls
Rated voltage			Ue [V AC] 100-230-440					100-230-440			100-230-440			Isolation con
Instantaneous tri	rip type	Rated sensitive	current [mA] 30					-			-			Rated voltag
		Tripping time	[8	j 0.1					-			-			Instantaneou
Tripping time [s]			1 100/200/500/1000 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 changeover			Rated freque	
			0/0.2/0.5/1					0/0.2/0.5/1			0/0.2/0.5/1			Rated breaking	
Rated frequency [Hz			[Hz] 50-60					50-60			50-60			
Rated breaking capacity Icu/Ics [kA	CNS5422 IEC60947-2 EN60947-2 JIS8201-2-2	AC	440V 415V 400V 380V	30/15	36/18	50/25	70/35		36/18	50/25	70/35	36/18	50/25	70/35	Icu/Ics [kA]
			240V	50/25	85/43	100/50	125/63	50/25	100/50	125/63	50/25	100/50	125/63		
			230V												Dimensions
			100V												- 1
	GB14048.2	AC	400V	30/15	36/18	50/25	70/35		36/18	50/25	70/35	36/18	50/25	70/35	
			230V	50/25	85/43	100/50	125/63		50/25	100/50	125/63	50/25	100/50	125/63	
Dimensions		[mm]	a	140	140	140 185	140	185	210	210	210	210	210	210	Mass
			b	257	257	257	257		275	275	275	275	275	275	Tripping devi
			с	103	103	103	103		103	103	103	103	103	103	
l			d	146	146	146	146		146	146	146	146	146	146	
Mass			[kg] 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											



Your Best Choice is FUJI.

0AF	225AF
6103B	HG203B
6103B	НG203В З
, 20, 30, 40, 50, , 75, 100	
, 20, 30, 40, 50,	3 125, 150, 175,

, ,	
	65
	-
0	100
1	105
5	165
	99
4	127
3	3.3

DV ser	ies	30AF				
Туре		DV32	DV33			
Pole		2 3				
Rated current	In [A]	30				
Rated voltage	Ue [V AC]	100-200				
Rated sensitive current	[mA]	15, 30				
Tripping time	[s]	0.1				
Rated frequency	[Hz]	50-60				
Rated short-time	AC200V	1.5	1.5			
withstand current Icw [kA]	AC100V					
Dimensions [mm]	a	68	90			
	b	70	80			
	с	40	40			
	d	63	63			
Mass	[kg]	0.17 0.24				
Tripping device		Ground fault protection only				