

■ SG series IEC and CE marking conformed types

Frame		30A	50A
Pole		3	3
Type	Instantaneous trip type Time delay trip type	SG33C□-CE –	SG53C□-CE –
Phase and wire		3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W
Rated voltage (V AC) [IEC 60947-2/JIS C 8201-2]		Instantaneous trip type Time delay trip type	Instantaneous trip type Time delay trip type
Rated current (A)		100–230–440 –	100–230–440 –
Frequency (Hz)		3, 5, 10, 15, 20, 30	5, 10, 15, 20, 30, 40, 50
Instantaneous trip type Rated sensitive current (mA) Tripping time (s)		50/60 30, 100/200/500 0.1	50/60 30, 100/200/500 0.1
Rated breaking capacity(kA) [IEC 60947-2/JIS C 8201-2] (Icu/Ics) *1		440V AC 2.5/2 400V AC 2.5/2 230V AC 5/3 100V AC 5/3	440V AC 7.5/4 400V AC 7.5/4 230V AC 10/5 100V AC 10/5
Instantaneous trip type [UL508]	Rated operating voltage (V AC) Rated sensitive current IΔn (mA) Page 07/28	240 30, 100/200/500	240 30, 100/200/500
	Pick-up current [UL1053]	0.7 x Rated sensitive current	0.7 x Rated sensitive current
Tripping time (s) [UL1053]		0.1	0.1
Dimensions (mm)		a 75 b 100 c 60 d 84	75 100 60 84
Mass (kg) Front mounting type		0.6	0.6
Front mounting, front connection		No-mark ●	●
Front mounting, rear connection		X ●	●
Flush mounting, rear connection		E ●	●
Flush mounting, top & bottom connection		Y ●	●
Plug-in mounting		P ●	●
IEC 35mm wide rail mounting		●	●
Internal accessories			
Alarm switch		K BZ6K□10C	BZ6K□10C
Alarm switch with terminal block		KA BZ6K□10CA	BZ6K□10CA
Auxiliary switch		W BZ6W□10C	BZ6W□10C
Auxiliary switch with terminal block		WA BZ6W□10CA	BZ6W□10CA
Undervoltage trip		R BZ6R□10C	BZ6R□10C
Shunt trip		F BZ6F□10C	BZ6F□10C
Test lead wire		TL ▲	▲
Megger test switch		MGS –	–
External accessories			
Motor operating mechanism		M ▲	▲
Handle padlocking device Cap type		Q1 –	–
Plate type		Q2 ▲	▲
Mechanical interlocking device		M1 BZ6M110C3 M2 BZ6M210C3 M3 BZ6M310C3	BZ6M110C3 BZ6M210C3 BZ6M310C3
Operating handle N-type		N BZ6N10C	BZ6N10C
Operating handle V-type		V BZ6V10C	BZ6V10C
Steel enclosure Direct operating		C BZ6C10C3	BZ6C10C3
Dustproof steel enclosure Handle operating		CV BZ6CV10C	BZ6CV10C
Rainproof steel enclosure Handle operating		CW BZ6CW10C	BZ6CW10C
Terminal cover Short		TS BZ6TS10C3	BZ6TS10C3
Terminal cover Long		TB BZ6TB10C3	BZ6TB10C3
Insulation barrier Interphase *2		B BZ6B10C	BZ6B10C
Insulation barrier Earth		BL BZ6BL10C3	BZ6BL10C3
Handle locking cover		L BZ6L10C	BZ6L10C
Flat terminal		S BZ6S10C503	BZ6S10C503

Notes: *1 Icu: Rated ultimate short-circuit breaking capacity ● Available – Not available ▲ Factory-mounted accessory
Ics: Rated service short-circuit breaking capacity
*2 Interphase insulation barriers are standard provided for the front mounting type breakers of 50AF and over.

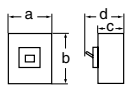
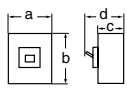
Rated voltage (V)	Operational voltage range (V)
100–230–440	80–484

Earth Leakage Circuit Breakers

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Line protection

■ SG series IEC and CE marking conformed types

Frame		60A		100A	
Pole		3		3	
Type	Instantaneous trip type Time delay trip type	SG63C□-CE —		SG63RC□-CE —	
Phase and wire		3ø3W 1ø3W 1ø2W		3ø3W 1ø3W 1ø2W	
Rated voltage (V AC) [IEC 60947-2/JIS C 8201-2]		Instantaneous trip type Time delay trip type		Instantaneous trip type Time delay trip type	
Rated current (A)		60		15, 20, 30, 40, 50, 60, 75, 100	
Frequency (Hz)		50/60		50/60	
Instantaneous trip type Rated sensitive current (mA) Tripping time (s)		30, 100/200/500 0.1		30, 100/200/500 0.1	
Rated breaking capacity(kA) [IEC 60947-2/JIS C 8201-2] (Icu/Ics) *1		440V AC 7.5/4 400V AC 7.5/4 230V AC 10/5 100V AC 10/5		25/7 30/8 50/25 50/25	
Instantaneous trip type [UL508]	Rated operating voltage (V AC)	240		—	
	Rated sensitive current I Δ n (mA) <i>Page 07/28</i>	30, 100/200/500		—	
	Pick-up current [UL1053]	0.7 x Rated sensitive current		—	
Tripping time (s) [UL1053]		0.1		—	
Dimensions (mm)					
Mass (kg) Front mounting type		0.6		1.3	
Front mounting, front connection		No-mark	●	●	●
Front mounting, rear connection		X	●	●	●
Flush mounting, rear connection		E	●	●	●
Flush mounting, top & bottom connection		Y	●	—	—
Plug-in mounting		P	●	●	●
IEC 35mm wide rail mounting			●	—	—
Internal accessories					
Alarm switch		K	BZ6K□10C	BZ6K□10C	BZ6K□30C
Alarm switch with terminal block		KA	BZ6K□10CA	BZ6K□10CA	▲ BZ6K□30C
Auxiliary switch		W	BZ6W□10C	BZ6W□10C	BZ6W□30C
Auxiliary switch with terminal block		WA	BZ6W□10CA	BZ6W□10CA	▲ BZ6W□30C
Undervoltage trip		R	BZ6R□10C	BZ6R□10C	▲ BZ6R□30C
Shunt trip		F	BZ6F□10C	BZ6F□10C	▲ BZ6F□30C
Test lead wire		TL	▲	▲	▲
External accessories					
Motor operating mechanism		M	▲	▲	▲
Handle padlocking device Cap type		Q1	—	—	—
Plate type		Q2	▲	▲	—
Mechanical interlocking device		M1	BZ6M110C3	BZ6M110C3	—
		M2	BZ6M210C3	BZ6M210C3	—
		M3	BZ6M310C3	BZ6M310C3	—
Operating handle N-type		N	BZ6N10C	BZ6N10C	BZ-N30C
Operating handle V-type		V	BZ6V10C	BZ6V10C	BZ6V30C
Steel enclosure Direct operating		C	BZ6C10C3	BZ6C10C3	BZ6C30C3
Dustproof steel enclosure Handle operating		CV	BZ6CV10C	BZ6CV10C	BZ-CV30C
Rainproof steel enclosure Handle operating		CW	BZ6CW10C	BZ6CW10C	BZ-CW30C
Terminal cover Short		TS	BZ6TS10C3	BZ6TS10C3	BZ-TS30B-3
Terminal cover Long		TB	BZ6TB10C3	BZ6TB10C3	BZ-TB30B-3
Insulation barrier Interphase *2		B	BZ6B10C	BZ6B10C	BZ-B30B
Insulation barrier Earth		BL	BZ6BL10C3	BZ6BL10C3	BZ-BL35B
Handle locking cover		L	BZ6L10C	BZ6L10C	BZ6L30C
Flat terminal		S	BZ6S10C1003	BZ6S10C1003	BZ-S35B-1003

Notes: *1 Icu: Rated ultimate short-circuit breaking capacity

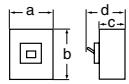
Ics: Rated service short-circuit breaking capacity

*2 Interphase insulation barriers are standard provided for the front mounting type breakers of 50AF and over.

● Available – Not available ▲ Factory-mounted accessory

Rated voltage (V)	Operational voltage range (V)
100–230–440	80–484

■ SG series IEC and CE marking conformed types

Frame		225A		400A	
Pole		3	3	3	
Type	Instantaneous trip type Time delay trip type	SG203C□-CE -	SG203RC□-CE -	SG403C□-CE -	
Phase and wire		3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	
Rated voltage (V AC)	Instantaneous trip type [IEC 60947-2/JIS C 8201-2] Time delay trip type	100-230-440 -	100-230-440 -	100-230-440 -	
Rated current (A)		125, 150, 175, 200, 225	125, 150, 175, 200, 225	250, 300, 350, 400	
Frequency (Hz)		50/60	50/60	50/60	
Instantaneous trip type	Rated sensitive current (mA) Tripping time (s)	30, 100/200/500 0.1	30, 100/200/500 0.1	30, 100/200/500 0.1	
Rated breaking capacity(kA)	440V AC [IEC 60947-2/JIS C 8201-2] 400V AC 230V AC (Icu/Ics) *1 100V AC	25/7 30/8 50/25 50/25	50/13 50/13 100/50 100/50	35/18 35/18 50/25 50/25	
Instantaneous trip type [UL508]	Rated operating voltage (V AC)	-	-	-	
	Rated sensitive current IΔn (mA)	-	-	-	
	Pick-up current [UL1053]	-	-	-	
Tripping time (s) [UL1053]		-	-	-	
Dimensions (mm)		a	105	105	140
		b	165	165	257
		c	60	60	103
		d	84	84	146
Mass (kg)	Front mounting type	1.5	1.5	5.6	
	Front mounting, front connection	No-mark ●	●	●	
	Front mounting, rear connection	X ●	●	●	
	Flush mounting, rear connection	E ●	●	●	
	Flush mounting, top & bottom connection	Y -	-	-	
	Plug-in mounting	P ●	●	●	
	IEC 35mm wide rail mounting	-	-	-	
Internal accessories					
	Alarm switch	K BZ6K□40C	BZ6K□40C	BZ-K70B	
	Alarm switch with terminal block	KA ▲	▲	BZ-K70BA	
	Auxiliary switch	W BZ6W□40C	BZ6W□40C	BZ-W70B	
	Auxiliary switch with terminal block	WA ▲	▲	BZ-W70BA	
	Undervoltage trip	R ▲	▲	BZ-R70B-□	
	Shunt trip	F ▲	▲	BZ-F70B-□	
	Test lead wire	TL ▲	▲	▲	
	Megger test switch	MGS -	-	-	
External accessories					
	Motor operating mechanism	M ▲	▲	▲	
	Handle padlocking device Cap type	Q1 -	-	-	
	Plate type	Q2 -	-	▲	
	Mechanical interlocking device	M1 -	-	BZ-M160C	
		M2 -	-	BZ-M260C	
		M3 -	-	BZ-M360C	
	Operating handle N-type	N BZ-N40C	BZ-N40C	BZ-N60C	
	Operating handle V-type	V BZ6V40C	BZ6V40C	BZ6V60C	
	Steel enclosure Direct operating	C BZ-C40B	BZ-C40B	BZ-C60B	
	Dustproof steel enclosure Handle operating	CV BZ-CV40C	BZ-CV40C	BZ-CV60C	
	Rainproof steel enclosure Handle operating	CW BZ-CW40C	BZ-CW40C	BZ-CW60C	
	Terminal cover Short	TS BZ-TS40B	BZ-TS40B	-	
	Terminal cover Long	TB BZ-TB40B	BZ-TB40B	BZ-TB60B	
	Insulation barrier Interphase *2	B BZ-B40B	BZ-B40B	B-43A	
	Insulation barrier Earth	BL BZ-BL40B	BZ-BL40B	-	
	Handle locking cover	L BZ6L40C	BZ6L40C	BZ-L70B	
	Flat terminal	S BZ-S50B-2253	BZ-S50B-2253	-	

Notes: *1 Icu: Rated ultimate short-circuit breaking capacity ● Available - Not available ▲ Factory-mounted accessory
Ics: Rated service short-circuit breaking capacity
*2 Interphase insulation barriers are standard provided for the front mounting type breakers of 50AF and over.

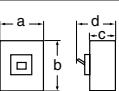
Rated voltage (V)	Operational voltage range (V)
100-230-440	80-484

Earth Leakage Circuit Breakers

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Line protection

SG series

Frame		400A	600A	800A	
Pole		3	3	3	
Type	Instantaneous trip type Time delay trip type	SG403RC SG403RCD	SG603RC SG603RCD	SG803RC SG803RCD	
Phase and wire		3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	
Rated voltage (V AC) [JIS C 8371]	Instantaneous trip type	100–200–415	100–200–415	100–200–415	
	Time delay trip type	200–415	200–415	200–415	
Rated current (A)		250, 300, 350, 400	500, 600	700, 800	
Frequency (Hz)		50/60	50/60	50/60	
Instantaneous trip type	Rated sensitive current (mA)	30, 100/200/500	100/200/500	100/200/500	
	Tripping time (s)	0.1	0.1	0.1	
Time delay trip type	Rated sensitive current (mA)	100/200/500	100/200/500	100/200/500	
	Tripping time (s)	0.3/0.8/2	0.3/0.8/2	0.3/0.8/2	
	Inertia non-tripping time (s) [2IΔn]	0.15/0.4/1	0.15/0.4/1	0.15/0.4/1	
Rated breaking capacity(kA) [JIS C 8371] sym.	415V AC	50	50	50	
	200V AC	85	85	85	
	100V AC	85	85	85	
Instantaneous trip type [UL508]	Rated operating voltage (V AC)	–	–	–	
	Rated sensitive current IΔn (mA)	–	–	–	
	Pick-up current [UL1053]	–	–	–	
Dimensions (mm)		a	140	210	210
		b	257	275	275
		c	103	103	103
		d	146	146	146
Mass (kg)	Front mounting type	5.6	10	10	
Front mounting, front connection	No-mark	●	●	●	
	X	●	●	●	
	E	●	●	●	
	Y	–	–	–	
	P	●	●	●	
	IEC 35mm wide rail mounting	–	–	–	
Internal accessories					
Alarm switch	K	BZ-K70B	BZ-K70B	BZ-K70B	
Alarm switch with terminal block	KA	BZ-K70BA	BZ-K70BA	BZ-K70BA	
Auxiliary switch	W	BZ-W70B	BZ-W70B	BZ-W70B	
Auxiliary switch with terminal block	WA	BZ-W70BA	BZ-W70BA	BZ-W70BA	
Undervoltage trip	R	BZ-R70B-□	BZ-R70B-□	BZ-R70B-□	
Shunt trip	F	BZ-F70B-□	BZ-F70B-□	BZ-F70B-□	
Test lead wire	TL	▲	▲	▲	
Megger test switch	MGS	▲	▲	▲	
External accessories					
Motor operating mechanism	M	▲	▲	▲	
Handle padlocking device	Cap type	Q1	▲	▲	
	Plate type	Q2	▲	▲	
Mechanical interlocking device	M1	BZ-M160C	BZ-M170C	BZ-M170C	
	M2	BZ-M260C	BZ-M270C	BZ-M270C	
	M3	BZ-M360C	BZ-M370C	BZ-M370C	
	N	BZ-N60C	BZ-N70C	BZ-N70C	
Operating handle N-type	V	BZ6V60C	BZ6V70C	BZ6V70C	
Operating handle V-type	C	BZ-C60B	BZ-C70B	BZ-C70B	
Steel enclosure Direct operating	CV	BZ-CV60C	BZ-CV70C	BZ-CV70C	
Dustproof steel enclosure Handle operating	CW	BZ-CW60C	–	–	
Rainproof steel enclosure Handle operating	TS	–	–	–	
Terminal cover Short	TB	BZ-TB60B	BZ-TB70B	BZ-TB60B	
Terminal cover Long	B	B-43A	B-43A	B-43A	
Insulation barrier Interphase *1	BL	–	–	–	
Insulation barrier Earth	L	BZ-L70B	BZ-L70B	BZ-L70B	
Handle locking cover	S	–	–	–	
Flat terminal					

● Available – Not available ▲ Factory-mounted accessory

Notes: *1 Interphase insulation barriers are standard provided for the front mounting type breakers of 50AF and over.

Rated voltage (V)	Operational voltage range (V)
100–200–415	80–484
200–415	160–484

Earth Leakage Circuit Breakers

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Line protection

EG series IEC and CE marking conformed types

Frame		30A			50A	
Pole		2	3	3	2	3
Type		EG32AC□-CE	EG33AC□-CE	EG33C□-CE	EG52AC□-CE	EG53AC□-CE
Instantaneous trip type		–	–	–	–	–
Time delay trip type		–	–	–	–	–
Phase and wire		1ø2W	3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	1ø2W	3ø3W 1ø3W 1ø2W
Rated voltage (V AC)		100–230	100–230	100–230–440	100–230	100–230
[IEC 60947-2/JIS C 8201-2]		–	–	–	–	–
Instantaneous trip type		100–230	100–230	100–230–440	100–230	100–230
Time delay trip type		–	–	–	–	–
Rated current (A)		5, 10, 15, 20, 30			5, 10, 15, 20, 30, 40, 50	
Rated frequency (Hz)		50/60	50/60	50/60	50/60	50/60
Instantaneous trip type		15, 30, 100	15, 30, 100	15, 30, 100	15, 30, 100	15, 30, 100
Rated sensitive current (mA)		15, 30, 100	15, 30, 100	15, 30, 100	15, 30, 100	15, 30, 100
Tripping time (s)		0.1	0.1	0.1	0.1	0.1
Rated breaking capacity(kA)		440V AC	–	1.5/1	–	–
[IEC 60947-2/JIS C 8201-2]		400V AC	–	1.5/1	–	–
(Icu/Ics) *1		230V AC	2.5/2	2.5/2	2.5/2	2.5/2
100V AC		2.5/2	2.5/2	5/3	2.5/2	2.5/2
Instantaneous trip type [UL508]	Rated operating voltage (V AC)	240	240	240	240	240
	Rated sensitive current Δn(mA)	15, 30, 100	15, 30, 100	15, 30, 100	15, 30, 100	15, 30, 100
	Page 07/29					
Pick-up current [UL1053]		0.7 x Rated sensitive current			0.7 x Rated sensitive current	
Tripping time (s) [UL1053]		0.1	0.1	0.1	0.1	0.1
Dimensions (mm)		a	50	75	75	50
b		100	100	100	100	100
c		60	60	60	60	60
d		84	84	84	84	84
Mass (kg) Front mounting type		0.4	0.6	0.6	0.4	0.6
Front mounting, front connection		No-mark	●	●	●	●
Front mounting, rear connection		X	●	●	●	●
Flush mounting, rear connection		E	●	●	●	●
Flush mounting, top & bottom connection		Y	●	●	●	●
Plug-in mounting		P	●	●	●	●
IEC 35mm wide rail mounting			●	●	●	●
Internal accessories						
Alarm switch		K	BZ6KR10C	BZ6K□10C	BZ6K□10C	BZ6KR10C
Alarm switch with terminal block		KA	BZ6KR10CA	BZ6K□10CA	BZ6K□10CA	BZ6KR10CA
Auxiliary switch		W	BZ6WR10C	BZ6W□10C	BZ6W□10C	BZ6WR10C
Auxiliary switch with terminal block		WA	BZ6WR10CA	BZ6W□10CA	BZ6W□10CA	BZ6WR10CA
Undervoltage trip		R	BZ6R□10C	BZ6R□10C	BZ6R□10C	BZ6R□10C
Shunt trip		F	BZ6F□10C	BZ6F□10C	BZ6F□10C	BZ6F□10C
Test lead wire		TL	▲	▲	▲	▲
Megger test switch		MGS	▲	–	▲	–
External accessories						
Motor operating mechanism		M	–	▲	–	▲
Handle padlocking device Cap type		Q1	–	–	–	–
Plate type		Q2	▲	▲	▲	▲
Mechanical interlocking device		M1	BZ6M110C2	BZ6M110C3	BZ6M110C3	BZ6M110C2
M2		BZ6M210C2	BZ6M210C3	BZ6M210C3	BZ6M210C2	BZ6M210C3
M3		BZ6M310C2	BZ6M310C3	BZ6M310C3	BZ6M310C2	BZ6M310C3
Operating handle N-type		N	BZ6N10C	BZ6N10C	BZ6N10C	BZ6N10C
Operating handle V-type		V	BZ6V10C	BZ6V10C	BZ6V10C	BZ6V10C
Steel enclosure Direct operating		C	BZ6C10C2	BZ6C10C3	BZ6C10C3	BZ6C10C2
Dustproof steel enclosure Handle operating		CV	BZ6CV10C	BZ6CV10C	BZ6CV10C	BZ6CV10C
Rainproof steel enclosure Handle operating		CW	BZ6CW10C	BZ6CW10C	BZ6CW10C	BZ6CW10C
Terminal cover Short		TS	BZ6TS10C2	BZ6TS10C3	BZ6TS10C3	BZ6TS10C2
Terminal cover Long		TB	BZ6TB10C2	BZ6TB10C3	BZ6TB10C3	BZ6TB10C2
Insulation barrier Interphase *2		B	BZ6B10C	BZ6B10C	BZ6B10C	BZ6B10C
Insulation barrier Earth		BL	BZ6BL10C2	BZ6BL10C3	BZ6BL10C3	BZ6BL10C2
Handle locking cover		L	BZ6L10C	BZ6L10C	BZ6L10C	BZ6L10C
Flat terminal		S	BZ6S10C502	BZ6S10C503	BZ6S10C503	BZ6S10C502

● Available – Not available ▲ Factory-mounted accessory

Notes: *1 Icu: Rated ultimate short-circuit breaking capacity

Ics: Rated service short-circuit breaking capacity

*2 Interphase insulation barriers are standard provided for the front mounting type breakers of 50AF and over. Except for EG50AC

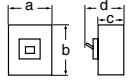
Rated voltage (V)	Operational voltage range (V)
100–230	80–264
100–230–440	80–484

Earth Leakage Circuit Breakers

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Line protection

EG series IEC and CE marking conformed types

Frame		50A	60A	100A		
Pole		3	3	3	2	3
Type	Instantaneous trip type	EG53C□-CE	EG63C□-CE	EG103AC□-CE	EG102C□-CE	EG103C□-CE
	Time delay trip type	–	–	–	–	–
Phase and wire		3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	1ø2W	3ø3W 1ø3W 1ø2W
Rated voltage (V AC) [IEC 60947-2/JIS C 8201-2]		Instantaneous trip type Time delay trip type	Instantaneous trip type Time delay trip type	Instantaneous trip type Time delay trip type	Instantaneous trip type Time delay trip type	Instantaneous trip type Time delay trip type
Rated current (A)		5, 10, 15, 20, 30, 40, 50	60	60, 75, 100	50, 60, 75, 100	–
Rated frequency (Hz)		50/60	50/60	50/60	50/60	50/60
Instantaneous trip type		Rated sensitive current (mA)	Rated sensitive current (mA)	Rated sensitive current (mA)	Rated sensitive current (mA)	Rated sensitive current (mA)
		Tripping time (s)	Tripping time (s)	Tripping time (s)	Tripping time (s)	Tripping time (s)
Rated breaking capacity (kA) [IEC 60947-2/JIS C 8201-2]		440V AC 400V AC 230V AC 100V AC	440V AC 400V AC 230V AC 100V AC	– – – –	– – – –	10/5 10/5 25/13 25/13
Instantaneous trip type [UL508]	Rated operating voltage (V AC)		240	240	240	240
	Rated sensitive current I Δ n (mA)		15, 30, 100/200	15, 30, 100/200	30, 100/200	30, 100/200
	Pick-up current [UL1053]		0.7 x Rated sensitive current		0.7 x Rated sensitive current	
Tripping time (s) [UL1053]		0.1	0.1	0.1	0.1	0.1
Dimensions (mm)			a: 75 b: 100 c: 60 d: 84	a: 75 b: 100 c: 60 d: 84	a: 75 b: 100 c: 60 d: 84	a: 75 b: 100 c: 60 d: 84
Mass (kg) Front mounting type		0.6	0.6	0.6	0.55	0.6
Front mounting, front connection		No-mark	●	●	●	●
Front mounting, rear connection		X	●	●	●	●
Flush mounting, rear connection		E	●	●	●	●
Flush mounting, top & bottom connection		Y	●	●	●	●
Plug-in mounting		P	●	●	●	●
IEC 35mm wide rail mounting			●	●	●	●
Internal accessories						
Alarm switch		K	BZ6K□10C	BZ6K□10C	BZ6K□10C	BZ6K□10C
Alarm switch with terminal block		KA	BZ6K□10CA	BZ6K□10CA	BZ6K□10CA	BZ6K□10CA
Auxiliary switch		W	BZ6W□10C	BZ6W□10C	BZ6W□10C	BZ6W□10C
Auxiliary switch with terminal block		WA	BZ6W□10CA	BZ6W□10CA	BZ6W□10CA	BZ6W□10CA
Undervoltage trip		R	BZ6R□10C	BZ6R□10C	BZ6R□10C	BZ6R□10C
Shunt trip		F	BZ6F□10C	BZ6F□10C	BZ6F□10C	BZ6F□10C
Test lead wire		TL	▲	▲	▲	▲
Megger test switch		MGS	–	–	▲	–
External accessories						
Motor operating mechanism		M	▲	▲	▲	▲
Handle padlocking device Cap type		Q1	–	–	–	–
Plate type		Q2	▲	▲	▲	▲
Mechanical interlocking device		M1	BZ6M110C3	BZ6M110C3	BZ6M110C3	BZ6M110C3
		M2	BZ6M210C3	BZ6M210C3	BZ6M210C3	BZ6M210C3
		M3	BZ6M310C3	BZ6M310C3	BZ6M310C3	BZ6M310C3
Operating handle N-type		N	BZ6N10C	BZ6N10C	BZ6N10C	BZ6N10C
Operating handle V-type		V	BZ6V10C	BZ6V10C	BZ6V10C	BZ6V10C
Steel enclosure Direct operating		C	BZ6C10C3	BZ6C10C3	BZ6C25C3	BZ6C25C3
Dustproof steel enclosure Handle operating		CV	BZ6CV10C	BZ6CV10C	BZ6CV25C	BZ6CV25C
Rainproof steel enclosure Handle operating		CW	BZ6CW10C	BZ6CW10C	BZ6CW25C	BZ6CW25C
Terminal cover Short		TS	BZ6TS10C3	BZ6TS10C3	BZ6TS10C3	BZ6TS10C3
Terminal cover Long		TB	BZ6TB10C3	BZ6TB10C3	BZ6TB10C3	BZ6TB10C3
Insulation barrier Interphase *2		B	BZ6B10C	BZ6B10C	BZ6B10C	BZ6B10C
Insulation barrier Earth		BL	BZ6BL10C3	BZ6BL10C3	BZ6BL10C3	BZ6BL10C3
Handle locking cover		L	BZ6L10C	BZ6L10C	BZ6L10C	BZ6L10C
Flat terminal		S	BZ6S10C503	BZ6S10C1003	BZ6S10C1003	BZ6S10C1003

● Available – Not available ▲ Factory-mounted accessory

Notes: *1 Icu: Rated ultimate short-circuit breaking capacity

Ics: Rated service short-circuit breaking capacity

*2 Interphase insulation barriers are standard provided for the front mounting type breakers of 50AF and over. Except for EG50AC and EG100AC

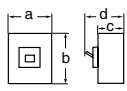
Rated voltage (V)	Operational voltage range (V)
100–230	80–264
100–230–440	80–484

Earth Leakage Circuit Breakers

Quick reference guide

Line protection

■ EG series IEC and CE marking conformed types

Frame		225A	400A
Pole		3	3
Type	Instantaneous trip type Time delay trip type	EG203C□-CE —	EG403C□-CE —
Phase and wire		3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W
Rated voltage (V AC) [IEC 60947-2/JIS C 8201-2]	Instantaneous trip type Time delay trip type	100–230–440 —	100–230–440 —
Rated current (A)		125, 150, 175, 200, 225	250, 300, 350, 400
Rated frequency (Hz)		50/60	50/60
Instantaneous trip type	Rated sensitive current (mA) Tripping time (s)	30, 100/200/500 0.1	30, 100/200/500 0.1
Rated breaking capacity(kA) [IEC 60947-2/JIS C 8201-2] (Icu/Ics) *1	440V AC 400V AC 230V AC 100V AC	15/4 18/5 35/18 35/18	25/13 25/13 35/18 35/18
Instantaneous trip type [UL508]	Rated operating voltage (V AC)	—	—
	Rated sensitive current I Δ n (mA)	—	—
	Pick-up current [UL1053]	—	—
Tripping time (s) [UL1053]		—	—
Dimensions (mm)		a 105 b 165 c 60 d 84	140 257 130 146
Mass (kg)	Front mounting type	1.5	5.6
Front mounting, front connection	No-mark	●	●
Front mounting, rear connection	X	●	●
Flush mounting, rear connection	E	●	●
Flush mounting, top & bottom connection	Y	—	—
Plug-in mounting	P	●	●
IEC 35mm wide rail mounting		—	—
Internal accessories			
Alarm switch	K	BZ6K□40C	BZ-K70B
Alarm switch with terminal block	KA	▲	BZ-K70BA
Auxiliary switch	W	BZ6W□40C	BZ-W70B
Auxiliary switch with terminal block	WA	▲	BZ-W70BA
Undervoltage trip	R	▲	BZ-R70B-□
Shunt trip	F	▲	BZ-F70B-□
Test lead wire	TL	▲	▲
Megger test switch	MGS	—	—
External accessories			
Motor operating mechanism	M	▲	▲
Handle padlocking device Cap type	Q1	—	▲
Plate type	Q2	▲	▲
Mechanical interlocking device	M1	—	BZ-M160C
	M2	—	BZ-M260C
	M3	—	BZ-M360C
Operating handle N-type	N	BZ-N40C	BZ-N60C
Operating handle V-type	V	BZ6V40C	BZ6V60C
Steel enclosure Direct operating	C	BZ-C40B-3	BZ-C60B-3
Dustproof steel enclosure Handle operating	CV	BZ-CV40C	BZ-CV60C
Rainproof steel enclosure Handle operating	CW	BZ-CW40C	BZ-CW60C
Terminal cover Short	TS	BZ-TS40B	—
Terminal cover Long	TB	BZ-TB40B	BZ-TB60B
Insulation barrier Interphase *2	B	BZ-B40B	B-43A
Insulation barrier Earth	BL	BZ-BL40B	—
Handle locking cover	L	BZ6L40C	BZ-L70B
Flat terminal	S	BZ-S50B-2253	—

Notes: *1 Icu: Rated ultimate short-circuit breaking capacity

Ics: Rated service short-circuit breaking capacity

*2 Interphase insulation barriers are standard provided for the front mounting type breakers of 50AF and over.

● Available – Not available ▲ Factory-mounted accessory

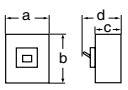
Rated voltage (V)	Operational voltage range (V)
100–230–440	80–484

Earth Leakage Circuit Breakers

Quick reference guide

Line protection

■ EG series

Frame		600A	800A
Pole		3	3
Type	Instantaneous trip type Time delay trip type	EG603C EG603CD	EG803C EG803CD
Phase and wire		3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W
Rated voltage (V AC) [JIS C 8371]	Instantaneous trip type Time delay trip type	100–200–415 200–415	100–200–415 200–415
Rated current (A)		500, 600	700, 800
Rated frequency (Hz)		50/60	50/60
Instantaneous trip type	Rated sensitive current (mA) Tripping time (s)	100/200/500 0.1	100/200/500 0.1
Time delay trip type	Rated sensitive current (mA) Tripping time (s) Inertia non-tripping time (s) [2IΔn]	100/200/500 0.3/0.8/2 0.15/0.4/1	100/200/500 0.3/0.8/2 0.15/0.4/1
Rated breaking capacity(kA) [JIS C 8371] sym.	415V AC 200V AC 100V AC	35 50 50	35 50 50
Instantaneous trip type [UL508]	Rated operating voltage (V AC)	–	–
	Rated sensitive current IΔn (mA)	–	–
	Pick-up current [UL1053]	–	–
Tripping time (s) [UL1053]		–	–
Dimensions (mm)		a 210 b 275 c 103 d 146	210 275 103 146
Mass (kg)	Front mounting type	10	10
Front mounting, front connection	No-mark	●	●
Front mounting, rear connection	X	●	●
Flush mounting, rear connection	E	●	●
Flush mounting, top & bottom connection	Y	–	–
Plug-in mounting	P	●	●
IEC 35mm wide rail mounting		–	–
Internal accessories			
Alarm switch	K	BZ-K70B	BZ-K70B
Alarm switch with terminal block	KA	BZ-K70BA	BZ-K70BA
Auxiliary switch	W	BZ-W70B	BZ-W70B
Auxiliary switch with terminal block	WA	BZ-W70BA	BZ-W70BA
Undervoltage trip	R	BZ-R70B-□	BZ-R70B-□
Shunt trip	F	BZ-F70B-□	BZ-F70B-□
Test lead wire	TL	▲	▲
Megger test switch	MGS	▲	▲
External accessories			
Motor operating mechanism	M	▲	▲
Handle padlocking device	Cap type	Q1	▲
	Plate type	Q2	▲
Mechanical interlocking device	M1	BZ6M170C	BZ6M170C
	M2	BZ-M270C	BZ-M270C
	M3	BZ-M370C	BZ-M370C
Operating handle N-type	N	BZ-N70C	BZ-N70C
Operating handle V-type	V	BZ6V70C	BZ6V70C
Steel enclosure Direct operating	C	BZ-C70B	BZ-C70B
Dustproof steel enclosure Handle operating	CV	BZ-CV70C	BZ-CV70C
Rainproof steel enclosure Handle operating	CW	–	–
Terminal cover Short	TS	–	–
Terminal cover Long	TB	BZ-TB70B	BZ-TB70B
Insulation barrier Interphase *1	B	B-43A	B-43A
Insulation barrier Earth	BL	–	–
Handle locking cover	L	BZ-L70B	BZ-L70B
Flat terminal	S	–	–

Notes: *1 Interphase insulation barriers are standard provided for the front mounting type breakers of 50AF and over.

● Available – Not available ▲ Factory-mounted accessory

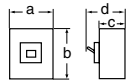
Rated voltage (V)	Operational voltage range (V)
100–200–415	80–484

Earth Leakage Circuit Breakers

Quick reference guide

Motor protection

■ SG series IEC and CE marking conformed types

Frame		30A	50A	60A	100A
Pole		3	3	3	3
Type	Instantaneous trip type Time delay trip type	SG33CM□-CE –	SG53CM□-CE –	SG63CM□-CE –	SG103CM□-CE –
Phase and wire		3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W
Rated voltage (V AC) [IEC 60947-2/JIS C 8201-2]	Instantaneous trip type Time delay trip type	100–230–440 –	100–230–440 –	100–230–440 –	100–230–440 –
Rated current (A) Ambient temp.: 40°C for general use 45°C for marine use		0.7, 1.4, 2, 2.6, 4, 5, 8, 10, 12, 16, 24, 32	0.7, 1.4, 2, 2.6, 4, 5, 8, 10, 12, 16, 24, 32, 40, 45	60	75, 90
Frequency (Hz)		50/60	50/60	50/60	50/60
Instantaneous trip type	Rated sensitive current (mA) Tripping time (s)	30, 100/200/500 0.1	30, 100/200/500 0.1	30, 100/200/500 0.1	30, 100/200/500 0.1
Rated breaking capacity(kA) [IEC 60947-2/JIS C 8201-2] (Icu/Ics) *1	440V AC 400V AC 230V AC 100V AC	2.5/2 2.5/2 5/3 5/3	7.5/4 7.5/4 10/5 10/5	7.5/4 7.5/4 10/5 10/5	25/7 30/8 50/25 50/25
Dimensions (mm)		a 75 b 100 c 60 d 84	75 100 60 84	75 100 60 84	90 155 60 82
Mass (kg)	Front mounting type	0.6	0.6	0.6	1.3
Front mounting, front connection	No-mark	●	●	●	●
Front mounting, rear connection	X	●	●	●	●
Flush mounting, rear connection	E	●	●	●	●
Flush mounting, top & bottom connection	Y	●	●	●	–
Plug-in mounting	P	●	●	●	●
IEC 35mm wide rail mounting		●	●	●	–
Internal accessories					
Alarm switch	K	BZ6K□10C	BZ6K□10C	BZ6K□10C	BZ6K□30C
Alarm switch with terminal block	KA	BZ6K□10CA	BZ6K□10CA	BZ6K□10CA	BZ6K□30CA
Auxiliary switch	W	BZ6W□10C	BZ6W□10C	BZ6W□10C	BZ6W□30C
Auxiliary switch with terminal block	WA	BZ6W□10CA	BZ6W□10CA	BZ6W□10CA	BZ6W□30CA
Undervoltage trip	R	BZ6R□10C	BZ6R□10C	BZ6R□10C	▲
Shunt trip	F	BZ6F□10C	BZ6F□10C	BZ6F□10C	▲
Test lead wire	TL	▲	▲	▲	▲
External accessories					
Motor operating mechanism	M	▲	▲	▲	▲
Handle padlocking device	Cap type Plate type	Q1 Q2	– ▲	– ▲	– –
Mechanical interlocking device	M1 M2 M3	BZ6M110C3 BZ6M210C3 BZ6M310C3	BZ6M110C3 BZ6M210C3 BZ6M310C3	BZ6M110C3 BZ6M210C3 BZ6M310C3	BZ6M130C3 BZ-M230C-3 BZ-M330C-3
Operating handle N-type	N	BZ6N10C	BZ6N10C	BZ6N10C	BZ-N30C
Operating handle V-type	V	BZ6V10C	BZ6V10C	BZ6V10C	BZ6V30C
Steel enclosure Direct operating	C	BZ6C10C3	BZ6C10C3	BZ6C10C3	BZ6C30C3
Dustproof steel enclosure Handle operating	CV	BZ6CV10C	BZ6CV10C	BZ6CV10C	BZ-CV30C
Rainproof steel enclosure Handle operating	CW	BZ6CW10C	BZ6CW10C	BZ6CW10C	BZ-CW30C
Terminal cover Short	TS	BZ6TS10C3	BZ6TS10C3	BZ6TS10C3	BZ-TS30B-3
Terminal cover Long	TB	BZ6TB10C3	BZ6TB10C3	BZ6TB10C3	BZ-TB30B-3
Insulation barrier Interphase *2	B	BZ6B10C	BZ6B10C	BZ6B10C	BZ-B30B
Insulation barrier Earth	BL	BZ6BL10C3	BZ6BL10C3	BZ6BL10C3	BZ-BL35B
Handle locking cover	L	BZ6L10C	BZ6L10C	BZ6L10C	BZ6L30C
Flat terminal	S	BZ6S10C503	BZ6S10C503	BZ6S10C1003	BZ-S35B-1003

Notes: *1 Icu: Rated ultimate short-circuit breaking capacity ● Available – Not available ▲ Factory-mounted accessory
Ics: Rated service short-circuit breaking capacity

*2 Interphase insulation barriers are standard provided for the front mounting type breakers of 50AF and over.

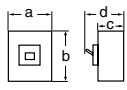
Rated voltage (V)	Operational voltage range (V)
100–230–440	80–484

Earth Leakage Circuit Breakers

Quick reference guide

Motor protection

■ SG series IEC and CE marking conformed types

Frame	100A	225A	
Pole	3	3	3
Type	Instantaneous trip type Time delay trip type	SG103RCM□-CE –	SG203CM□-CE –
Phase and wire	3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W
Rated voltage (V AC) [IEC 60947-2/JIS C 8201-2]	Instantaneous trip type Time delay trip type	100–230–440 –	100–230–440 –
Rated current (A) Ambient temp.: 40°C for general use 45°C for marine use	45, 60, 75, 90	125, 150, 175, 225	125, 150, 175, 225
Rated frequency (Hz)	50/60	50/60	50/60
Instantaneous trip type	Rated sensitive current (mA) Tripping time (s)	30, 100/200/500 0.1	30, 100/200/500 0.1
Rated breaking capacity(kA) [IEC 60947-2/JIS C 8201-2] (Icu/Ics) *1	440V AC 400V AC 230V AC 100V AC	50/13 50/13 100/50 100/50	50/13 50/13 100/50 100/50
Dimensions (mm)		a 90 b 155 c 60 d 82	a 105 b 165 c 60 d 84
Mass (kg) Front mounting type		1.3	1.5
Front mounting, front connection	No-mark	●	●
Front mounting, rear connection	X	●	●
Flush mounting, rear connection	E	●	●
Flush mounting, top & bottom connection	Y	–	–
Plug-in mounting	P	●	●
IEC 35mm wide rail mounting		–	–
Internal accessories			
Alarm switch	K	BZ6K□30C	BZ6K□40C
Alarm switch with terminal block	KA	BZ6K□30CA	BZ6K□40CA
Auxiliary switch	W	BZ6W□30C	BZ6W□40C
Auxiliary switch with terminal block	WA	BZ6W□30CA	BZ6W□40CA
Undervoltage trip	R	▲	▲
Shunt trip	F	▲	▲
Test lead wire	TL	▲	▲
External accessories			
Motor operating mechanism	M	▲	▲
Handle padlocking device Cap type	Q1	–	–
Plate type	Q2	–	–
Mechanical interlocking device	M1	BZ6M130C3	BZ6M140C
	M2	BZ-M230C-3	BZ-M240C
	M3	BZ-M330C-3	BZ-M340C
Operating handle N-type	N	BZ-N30C	BZ-N40C
Operating handle V-type	V	BZ6V30C	BZ6V40C
Steel enclosure Direct operating	C	BZ6C30C3	BZ-C40B
Dustproof steel enclosure Handle operating	CV	BZ-CV30C	BZ-CV40C
Rainproof steel enclosure Handle operating	CW	BZ-CW30C	BZ-CW40C
Terminal cover Short	TS	BZ-TS30B-3	BZ-TS40B
Terminal cover Long	TB	BZ-TB30B-3	BZ-TB40B
Insulation barrier Interphase *2	B	BZ-B30B	BZ-B40B
Insulation barrier Earth	BL	BZ-BL35B	BZ-BL40B
Handle locking cover	L	BZ6L30C	BZ6L40C
Flat terminal	S	BZ-S35B-1003	BZ-S50B-2253

Notes: *1 Icu: Rated ultimate short-circuit breaking capacity
Ics: Rated service short-circuit breaking capacity

*2 Interphase insulation barriers are standard provided for the front mounting type breakers of 50AF and over.

● Available – Not available ▲ Factory-mounted accessory

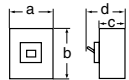
Rated voltage (V)	Operational voltage range (V)
100–230–440	80–484

Earth Leakage Circuit Breakers

Quick reference guide

Motor protection

EG series IEC and CE marking conformed types

Frame		30A	50A	60A	100A	225A
Pole		3	3	3	3	3
Type	Instantaneous trip type Time delay trip type	EG33CM□-CE -	EG53CM□-CE -	EG63CM□-CE -	EG103CM□-CE -	EG203CM□-CE -
Phase and wire		3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W	3ø3W 1ø3W 1ø2W
Rated voltage (V AC) [IEC 60947-2/JIS C 8201-2]	Instantaneous trip type Time delay trip type	100-230-440 -	100-230-440 -	100-230-440 -	100-230-440 -	100-230-440 -
Rated current (A) Ambient temp.: 40°C for general use 45°C for marine use		1.4, 2.6, 4, 5, 8, 10, 16, 24, 32	45	60	60, 75, 90	125, 150, 175, 225
Rated frequency (Hz)		50/60	50/60	50/60	50/60	50/60
Instantaneous trip type	Rated sensitive current (mA) Tripping time (s)	30, 100 0.1	30, 100/200 0.1	30, 100/200 0.1	30, 100/200/500 0.1	30, 100/200/500 0.1
Rated breaking capacity(kA) [IEC 60947-2/JIS C 8201-2] (Icu/Ics) *1	440V AC 400V AC 230V AC 100V AC	1.5/1 1.5/1 2.5/2 5/3	2.5/2 2.5/2 5/3 5/3	2.5/2 2.5/2 5/3 5/3	10/5 10/5 25/13 25/13	15/4 18/5 35/18 35/18
Dimensions (mm)		a 75 b 100 c 60 d 84	a 75 b 100 c 60 d 84	a 75 b 100 c 60 d 84	a 75 b 100 c 60 d 84	a 105 b 165 c 60 d 84
Mass (kg)	Front mounting type	0.6	0.6	0.6	0.6	1.5
Front mounting, front connection	No-mark	●	●	●	●	●
Front mounting, rear connection	X	●	●	●	●	●
Flush mounting, rear connection	E	●	●	●	●	●
Flush mounting, top & bottom connection	Y	●	●	●	●	-
Plug-in mounting	P	●	●	●	●	●
IEC 35mm wide rail mounting		●	●	●	●	-
Internal accessories						
Alarm switch	K	BZ6K□10C	BZ6K□10C	BZ6K□10C	BZ6K□10C	BZ6K□40C
Alarm switch with terminal block	KA	BZ6K□10CA	BZ6K□10CA	BZ6K□10CA	BZ6K□10CA	▲ BZ6K□40C
Auxiliary switch	W	BZ6W□10C	BZ6W□10C	BZ6W□10C	BZ6W□10C	▲ BZ6W□40C
Auxiliary switch with terminal block	WA	BZ6W□10CA	BZ6W□10CA	BZ6W□10CA	BZ6W□10CA	▲
Undervoltage trip	R	BZ6R□10C	BZ6R□10C	BZ6R□10C	BZ6R□10C	▲
Shunt trip	F	BZ6F□10C	BZ6F□10C	BZ6F□10C	BZ6F□10C	▲
Test lead wire	TL	▲	▲	▲	▲	▲
Megger test switch	MGS	-	-	-	-	-
External accessories						
Motor operating mechanism	M	▲	▲	▲	▲	▲
Handle padlocking device	Cap type Plate type	Q1 Q2	- ▲	- ▲	- ▲	- -
Mechanical interlocking device	M1 M2 M3	BZ6M110C3 BZ6M210C3 BZ6M310C3	BZ6M110C3 BZ6M210C3 BZ6M310C3	BZ6M110C3 BZ6M210C3 BZ6M310C3	BZ6M110C3 BZ6M210C3 BZ6M310C3	- - -
Operating handle N-type	N	BZ6N10C	BZ6N10C	BZ6N10C	BZ6N10C	BZ6N40C
Operating handle V-type	V	BZ6V10C	BZ6V10C	BZ6V10C	BZ6V10C	BZ6V40C
Steel enclosure Direct operating	C	BZ6C10C3	BZ6C10C3	BZ6C10C3	BZ6C25C3	BZ-C40B
Dustproof steel enclosure Handle operating	CV	BZ6CV10C	BZ6CV10C	BZ6CV10C	BZ6CV25C	BZ-CV40C
Rainproof steel enclosure Handle operating	CW	BZ6CW10C	BZ6CW10C	BZ6CW10C	BZ6CW25C	BZ-CW40C
Terminal cover Short	TS	BZ6TS10C3	BZ6TS10C3	BZ6TS10C3	BZ6TS10C3	BZ-TS40B
Terminal cover Long	TB	BZ6TB10C3	BZ6TB10C3	BZ6TB10C3	BZ6TB10C3	BZ-TB40B
Insulation barrier Interphase *2	B	BZ6B10C	BZ6B10C	BZ6B10C	BZ6B10C	BZ-B40B
Insulation barrier Earth	BL	BZ6BL10C3	BZ6BL10C3	BZ6BL10C3	BZ6BL10C3	BZ-BL40B
Handle locking cover	L	BZ6L10C	BZ6L10C	BZ6L10C	BZ6L10C	BZ6L40C
Flat terminal	S	BZ6S10C503	BZ6S10C503	BZ6S10C1003	BZ6S10C1003	BZ-S50B-2253

Notes: *1 Icu: Rated ultimate short-circuit breaking capacity
Ics: Rated service short-circuit breaking capacity

*2 Interphase insulation barriers are standard provided for the front mounting type breakers of 50AF and over.

● Available - Not available ▲ Factory-mounted accessory

Rated voltage (V)	Operational voltage range (V)
100-230-440	80-484