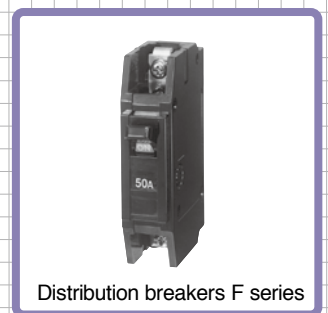




■ MOLDED CASE
CIRCUIT BREAKERS

■ AIR CIRCUIT BREAKERS

LOW
VOLTAGE
EQUIPMENT
Up to 600 Volts



INDIVIDUAL CATALOG **06**
from D&C CATALOG 20th Edition

01 02 03 04 05 **06** 07 08 09 10 11 12



The Twin Breakers have advanced to an entirely new stage.

Conforming to IEC & local Standards

Conforming to certifications and standards in major world markets
Expanded frame sizes in G-TWIN Global Series



G-TWIN Standard series MCCB



G-TWIN Global series MCCB

Compact & High performance

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

GLOBAL TWIN History



1990 TWIN Breaker



1992 Super TWIN



1995 Super 60



2001 alpha-TWIN



2006 G-TWIN

FUJI MCCB and ELCB GLOBAL TWIN

Ecology

- Lower environmental impact
- Advanced green engineering and energy-saving support
- Conforming to the RoHS Directive



Usefulness

Leading the way in user-friendliness

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, 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 α-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.

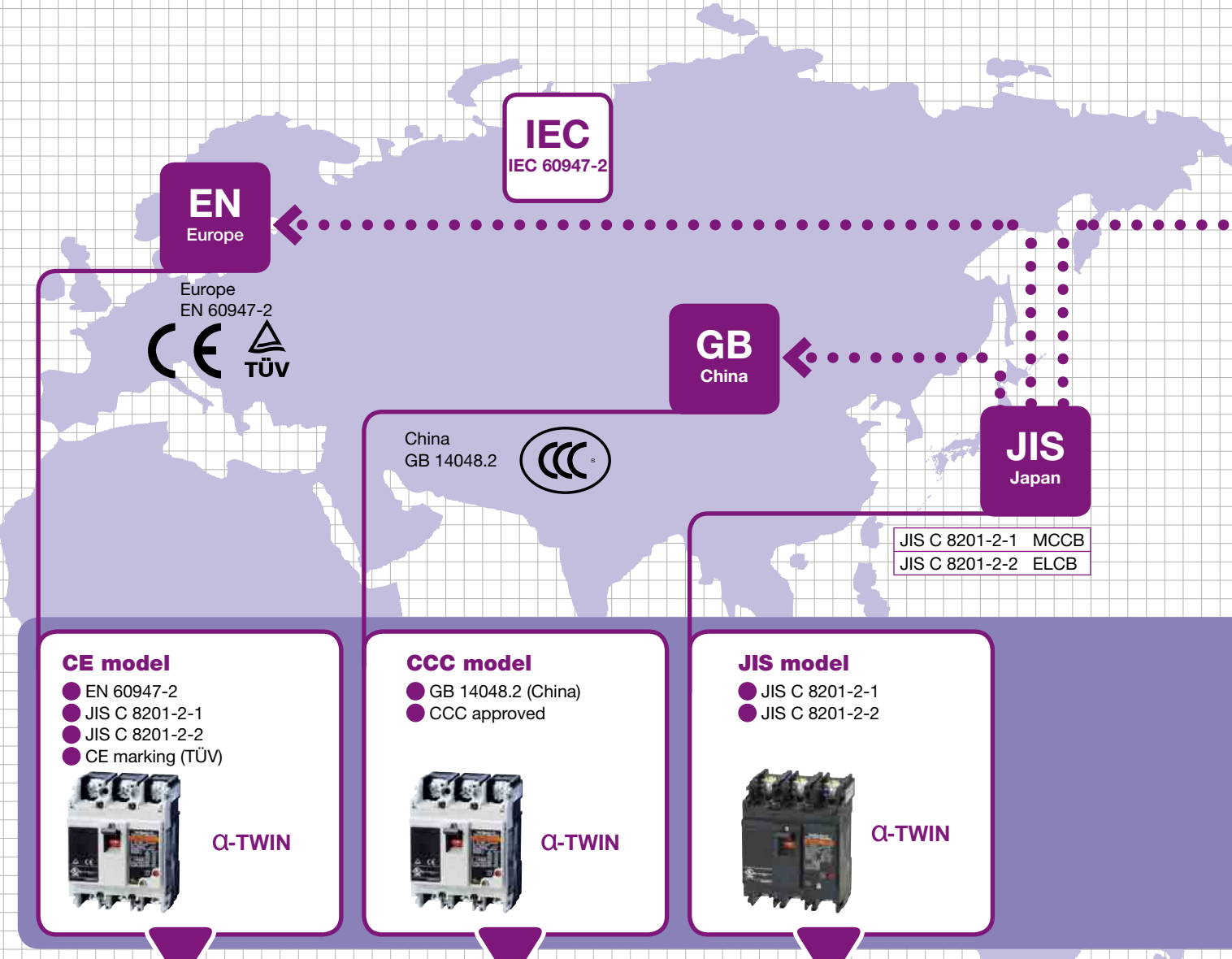
Based on the Twin Breaker Series, Fuji Electric has expanded the range of its products conforming to and approved by international standards for global markets, always advanced the innovative development of fundamental technologies in response to the market demand, and developed the G-TWIN Series of MCCBs and ELCBs.



GLOBAL-TWIN

Conforming to IEC & local Standards

The G-TWIN series is a global breaker series that satisfies all major standards.



CE marking (TÜV) + CCC approved + JIS

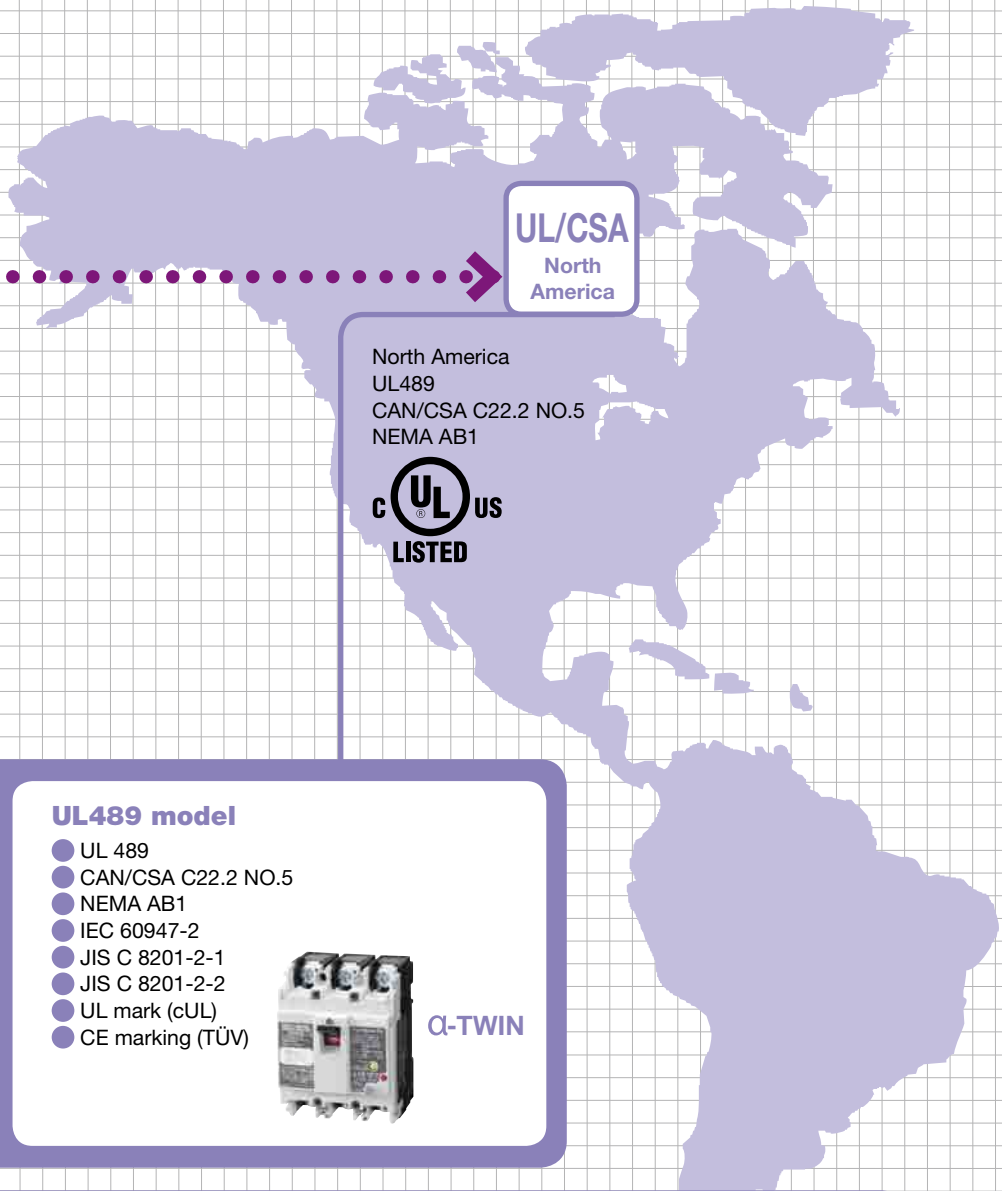
G-TWIN Standard series



- IEC 60947-2
- EN 60947-2 (CE marking)
- GB 14048.2 (CCC)
- JIS C 8201-2-1
- JIS C 8201-2-2

Ampere frame size (AF)

32	50	63	100	125	160	250	400	630	800
----	----	----	-----	-----	-----	-----	-----	-----	-----



UL/CSA
North America

North America
UL489
CAN/CSA C22.2 NO.5
NEMA AB1



- CE model**
- CCC model**
- JIS model**



UL489 model

- UL 489
- CAN/CSA C22.2 NO.5
- NEMA AB1
- IEC 60947-2
- JIS C 8201-2-1
- JIS C 8201-2-2
- UL mark (cUL)
- CE marking (TÜV)



G-TWIN

UL mark (cUL) + CE marking (TÜV) + CCC approved + JIS



G-TWIN Global series

- IEC 60947-2
- EN 60947-2 (CE marking)
- GB 14048.2 (CCC)
- JIS C 8201-2-1
- JIS C 8201-2-2
- UL 489
- CAN/CSA C22.2 NO.5
- NEMA AB1

Ampere frame size (AF)

50	100	125	250	400	630	800
----	-----	-----	-----	-----	-----	-----



GLOBAL-TWIN

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

Compact & High performance

Compact size meeting UL489 480V requirements

Current model



Rated voltage 480V
BU3JLC
(W105 x H256 x D103 mm)

(250AF)



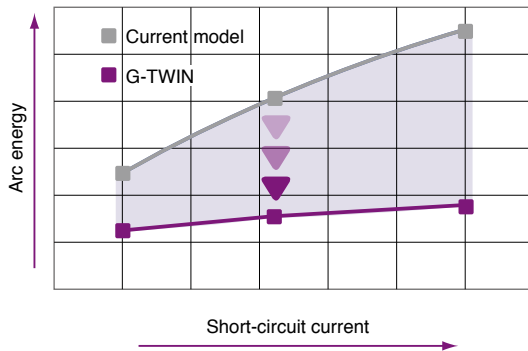
Rated voltage 480V
BW250RAGU
(W105 x H181 x D68 mm)

(250AF)

480V
Volume
ratio
- 53%!

Technical innovation

Arc and gas flow control technology
Effect of "ablation breaking technology"



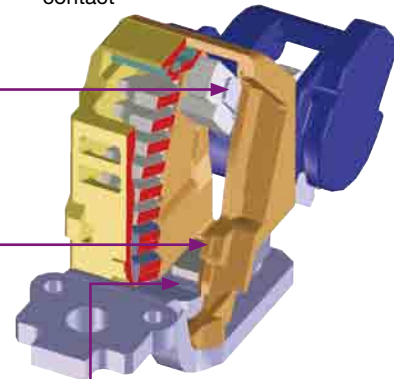
Decrease
by
30%!

Narrow slit resin

- Increased arc voltage due to narrow slit effect
- Increased arc voltage and high-speed moving contact opening by ablation effect
- Suppression of internal pressure rise by adjusting the narrow slit width

Moving contact cover

- Arcing prevention at the bottom of moving contact



Magnetic yoke arrangement

- An increase in the repulsion force of the moving contact at initiation of contact opening

Ecology

Advanced environmental technology Conforming to the RoHS Directive

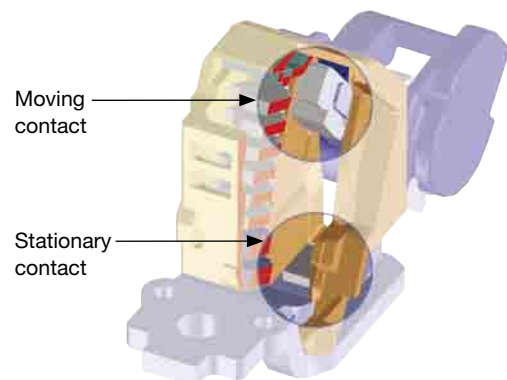
The G-TWIN Series is designed to lower environmental impact.

Recycling

- For easier recycling, all major parts are marked with the names of the materials used.

Conforming to the RoHS Directive

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



Cadmium-free contact material

Usefulness Leading the way in user-friendliness

Unifying and reducing the types of internal accessories

32~100AF • Internal and external accessories
A wider range of customer-mountable accessories



125~250AF • Sharing internal accessories of 125/160/250AF breakers.

Number of types of internal accessories

AF	Q-TWIN	G-TWIN
125	8	8
160/250	8	



400~800AF • The number of types of internal accessories of 400/630/800AF has been significantly reduced.

Number of types of internal accessories

AF	Q-TWIN	G-TWIN
400	26	6
630		
800		






Molded Case Circuit Breakers


Type of MCCBs

■ Type of MCCBs

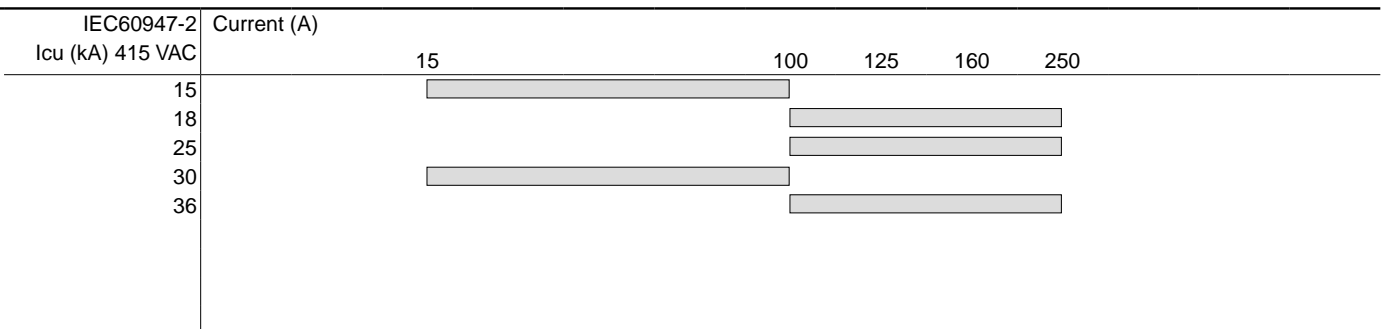
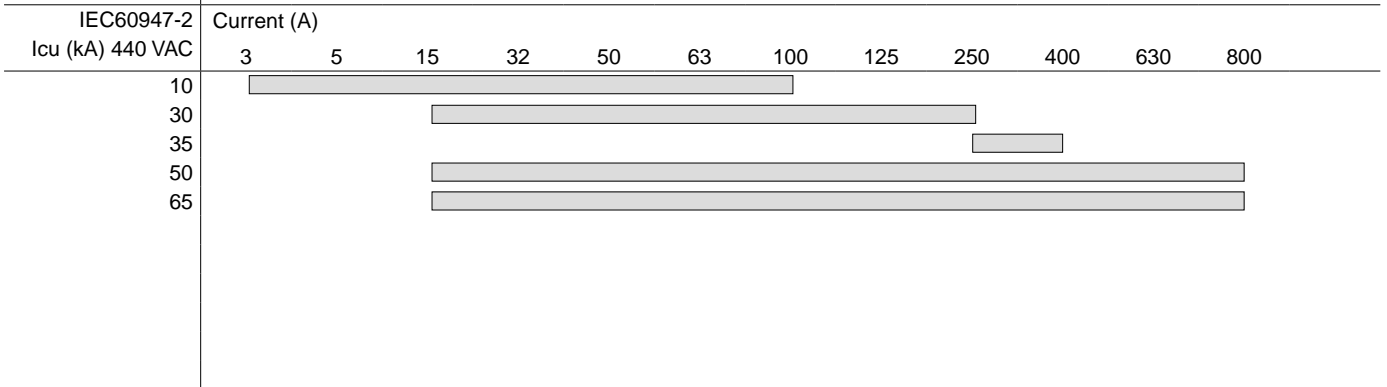
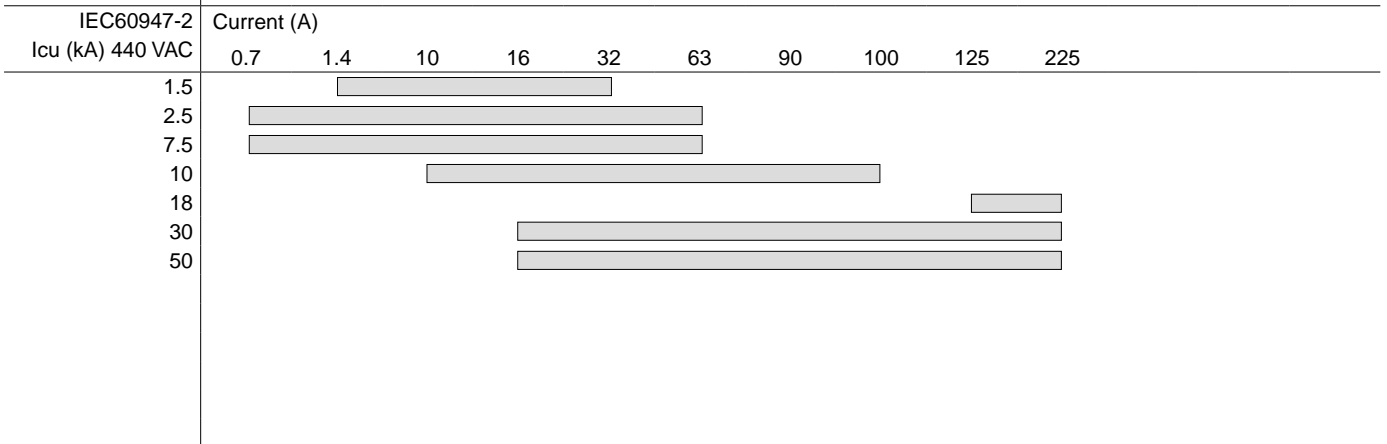
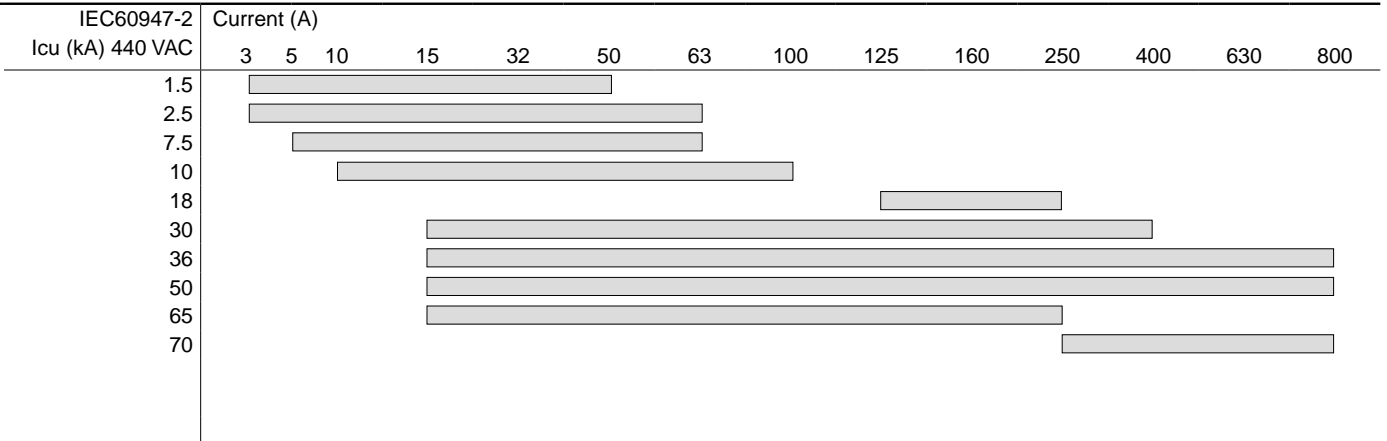
G-TWIN Series

Line protection	Page	Feature	Type
	06/04	<ul style="list-style-type: none"> Models from 3A to 800A Conforming to international standard IEC/EN(CE)/GB(CCC)/JIS Most accessories can be installed by the user. 	BW ① ② A G- ③ ④ ①AF ②Breaking capacity ③Pole ④Rated current 32 A 2P 003 50 E 3P · 63 J 4P · 100 S · 125 R 800 160 H 250 400 630 800
	06/18	<ul style="list-style-type: none"> Models from 0.7A to 225A Line & Motor protection Conforming to international standard IEC/EN(CE)/GB(CCC)/JIS 	BW ① ② A M- ③ ④ ①AF ②Breaking capacity ③Pole ④Rated current 32 E 2P 0P7 50 J 3P · 63 S · 100 R · 125 225 250
	06/13	<ul style="list-style-type: none"> Models from 3A-800A Conforming to international standard UL/CSA/IEC/EN(CE)/GB(CCC)/JIS 	BW ① ② A GU- ③ ④ ①AF ②Breaking capacity ③Pole ④Rated current 50 E 2P 003 100 J 3P · 125 S · 250 R · 400 H 800 630 800

BW0 Series

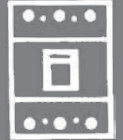
Line protection	Page	Feature	Type
	06/96	<ul style="list-style-type: none"> Compact: depth 60mm Cassette: All accessories can be assembled by user. Global: Conforming to IEC/EN(CE) standard. 	BW ① ② ③ 0/ ④ ①AF ②Breaking capacity ③Pole ④Rated current 10:100AF E 2:2P 15 16:160AF J 3:3P · 25:250AF S · · 250

Molded Case Circuit Breakers Type of MCCBs



06

Molded Case Circuit Breakers



Page

Molded Case Circuit Breakers

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	Wire size and terminal	06/25
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	Dimensions	06/39
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Air Circuit Breakers

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	Type number nomenclature	06/171
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MINIMUM ORDERS

Orders amounting to **less than ¥10,000** net per order will be charged as ¥10,000 net per order plus freight and other charges.

WEIGHTS AND DIMENSIONS

Weights and dimensions appearing in this catalog are the best information available at the time of going to press. FUJI ELECTRIC FA has a policy of continuous product improvement, and design changes may make this information out of date.

Please confirm such details before planning actual construction.

INFORMATION IN THIS CATALOG IS SUBJECT TO CHANGE WITHOUT NOTICE.

Molded Case Circuit Breakers

List of products

■ G-TWIN Standard Series (IEC/EN/GB/JIS conformed)

Line protection

AC415V Icu	BW32	BW50	BW63	BW100	BW125	BW160	BW250	BW400	BW630	BW800
1.5kA	AAG	AAG		AAG						
2.5kA	SAG	EAG	EAG							
7.5kA		SAG	SAG							
10kA		RAG	RAG	EAG						
18kA						EAG	EAG			
30kA					JAG	JAG	JAG	EAG		
36kA					SAG	SAG	SAG	SAG	EAG	EAG
50kA					RAG	RAG	RAG	RAG	RAG	RAG
65kA		HAG*			HAG*		HAG*			
70kA								HAG	HAG	HAG

Note: * There are no performance indications for GB standards for the BW50HAG, BW125HAG, and BW250HAG.

■ G-TWIN Global Series (IEC/EN/GB/JIS/UL/CSA conformed)

Line protection

AC415V Icu	BW50	BW100	BW125	BW250	BW400	BW630	BW800
10kA	RAGU	EAGU					
18kA				EAGU			
30kA			JAGU	JAGU	EAGU		
36kA					SAGU		
50kA			RAGU	RAGU	RAGU	RAGU	RAGU
70kA					HAGU	HAGU	HAGU

■ S, H Series

Line protection

AC415V Icu	50AF	100AF	225AF	400AF	600AF	800AF	1000AF	1200AF	1600AF
65kA	H52BA H53BA	H102BA H103BA	H202BA H203BA				SA1003E SA1004E	SA1203E SA1204E	
85kA		H103R	H203R						SA1603E SA1604E
125kA				H403R	H603R	H803R			

■ F Series

Distribution Breakers

AC240V Icu	50AF	100AF
3kA	F51B F52B F53B	F102B F103B

Motor protection

AC415V Icu	BW32	BW50	BW63	BW100	BW125	BW250
1.5kA	AAM					
2.5kA	SAM	EAM	EAM			
7.5kA		SAM	SAM			
10kA		RAM		EAM		
18kA						EAM
30kA					JAM	JAM
50kA					RAM	RAM

■ BW0 Series (IEC/EN/GB conformed)

Line protection

AC415V Icu	100AF	160AF	250AF
15kA	BW103E0		
18kA		BW162E0 BW163E0	BW252E0 BW253E0
25kA		BW162J0 BW163J0	BW252J0 BW253J0
30kA	BW102S0 BW103S0		
36kA		BW162S0 BW163S0	BW252S0 BW253S0

■ H Series

Motor protection

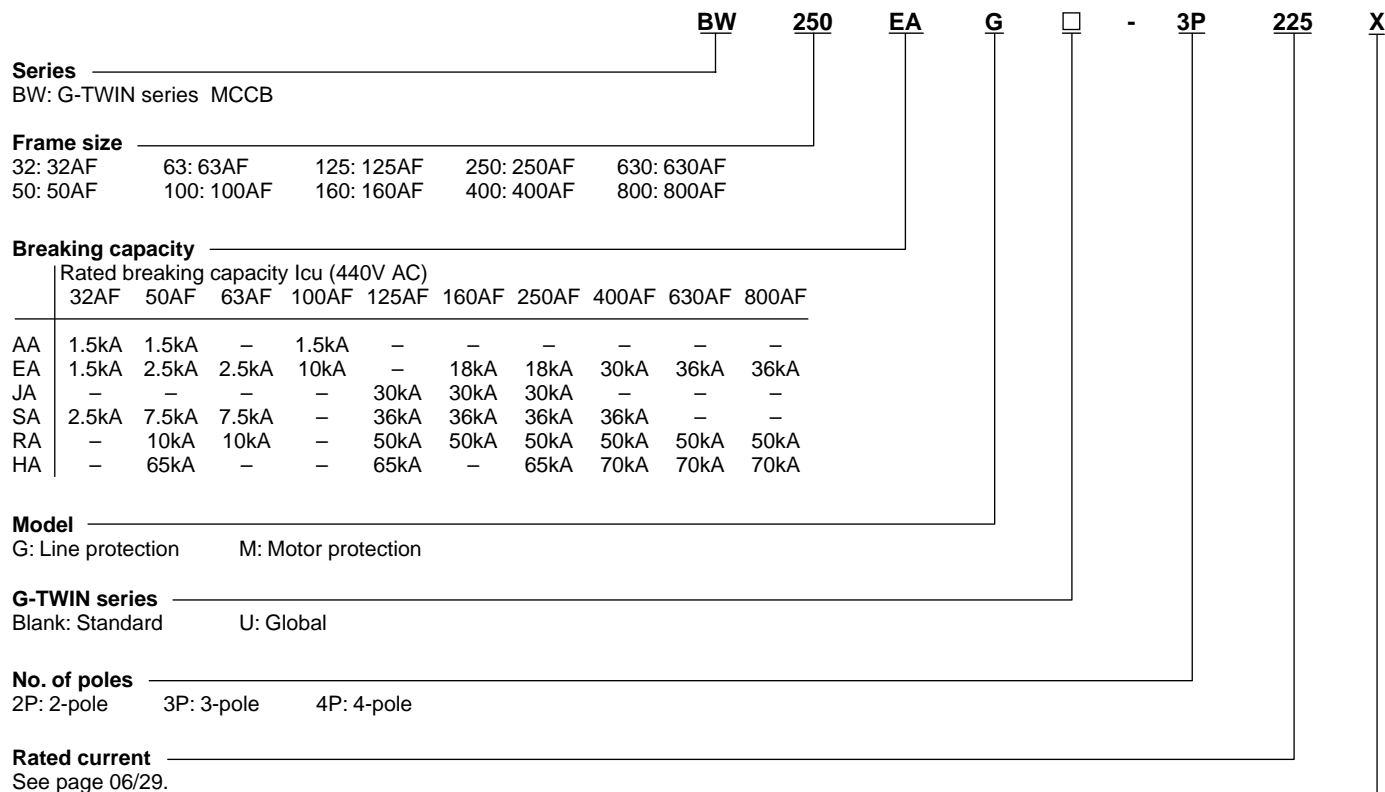
AC415V Icu	50AF
65kA	H53BAM

Molded Case Circuit Breakers

G-TWIN series

Type number nomenclature

■ Type number nomenclature



Terminal combination (Global type)

Code	Terminal position		Applicable breaker type		
	Line	Load	BW50	BW100, 125, 250	BW400, 630, 800
Blank	Screw	Screw	●	●	—
Blank	Flat terminal	Flat terminal	—	—	●
SB	Block terminal	Block terminal	—	●	●
SF	Flat terminal	Flat terminal	●	●	—
S3	Screw	Flat terminal	●	●	—
S4	Flat terminal	Screw	●	●	—
S5	Screw	Block terminal	—	●	—
S6	Block terminal	Screw	—	●	—
S7	Flat terminal	Block terminal	—	●	●
S8	Block terminal	Flat terminal	—	●	●

Mounting and connection

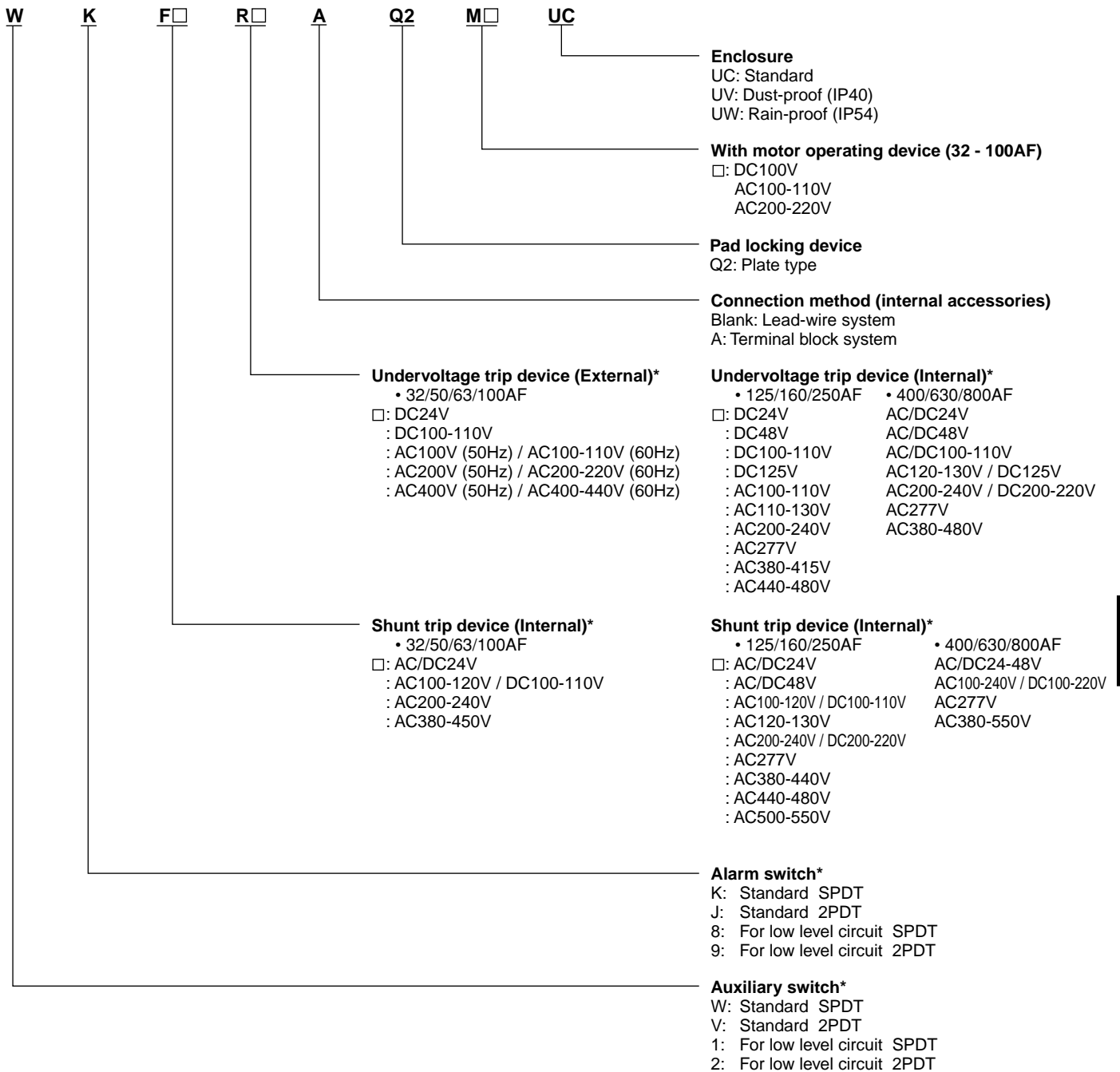
• Standard type

- Blank: Front mounting front connection
- X: Front mounting rear connection
- E: Flush mounting rear connection
- Y: Flush mounting, top & bottom connection
- P: Plug-in mounting

Molded Case Circuit Breakers

G-TWIN series

Type number nomenclature



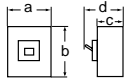
* For the available configuration of accessory, see page 06/68.

Molded Case Circuit Breakers

G-TWIN series

Quick reference guide

■ G-TWIN Standard Series

Ampere frame		32A						
Type		BW32AAG		BW32SAG				
Pole		2	3	2	3			
Rated current	Reference amb. temp. (40°C)	In(A) 3, 5, 10, 15, 20, 30, 32						
Rated impulse withstand voltage		Uimp(kV) 6		6				
Isolation compliant		●		●				
Rated insulation voltage Ui (V)		AC	500		690			
		DC	-		250*1			
Rated breaking capacity Icu/Ics (kA)	IEC 60947-2 EN 60947-2 JIS C 8201-2-1	AC	500V	-		1.5/1		
			440V	1.5/1		2.5/2		
			415V	1.5/1		2.5/2		
			400V	1.5/1		2.5/2		
			380V	1.5/1		2.5/2		
			240V	2.5/2		5/3		
			230V	2.5/2		5/3		
			DC	250V		-		2.5/2*1
		GB14048.2	AC	400V		1.5/1		2.5/2
					230V		2.5/2	
Conforming to standards	CE Marking	● (TÜV)		● (TÜV)				
	CCC certificate	●		●				
	Electrical Appliance and Material Safety Law <PS>E ²	●		●				
Dimensions (mm)		a	50	75	50	75		
		b	100		100			
		c	60		60			
		d	84		84			
		Mass (kg)	0.4	0.5	0.4	0.5		
Tripping device		Hydraulic-magnetic						
Front mounting, front connection	No-mark	○	○	○	○			
Front mounting, rear connection	X	○	○	○	○			
Flush mounting, front connection	E	○	○	○	○			
Flush mounting, top & bottom connection	Y	○	○	○	○			
Plug-in mounting	P	○	○	○	○			
IEC 35mm wide rail mounting	No-mark	○	○	○	○			
Internal accessories Page 06/63								
Alarm switch	K	○	○	○	○			
Auxiliary switch	W	○	○	○	○			
Undervoltage trip	R	○	○	○	○			
Shunt trip	F	○	○	○	○			
External accessories Page 06/66								
Handle padlocking device	Cap type QN	○	○	○	○			
Handle padlocking device	Plate type Q2	▲	▲	▲	▲			
Operating handle	N-type N	○	○	○	○			
Operating handle	V-type V	○	○	○	○			
Terminal cover	Short BT□S	○	○	○	○			
Terminal cover	Long BT□L	○	○	○	○			
Insulation barrier	Interphase BP	○	○	○	○			
	Earth BL	○	○	○	○			
Handle locking cover	L1	○	○	○	○			
Flat terminal	SS	○	○	○	○			
Block terminal	SL	-	-	-	-			

●: Approved ○: Available -: Not available ▲: Factory-mounted accessory

Note: *1 Specify DC only when ordering circuit breakers for DC circuit.

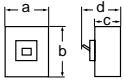
*2 Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers

G-TWIN series

Quick reference guide

■ G-TWIN Standard Series

Ampere frame		50A										
Type		BW50AAG		BW50EAG		BW50SAG		BW50RAG		BW50HAG		
Pole		2	3	2	3	2	3	2	3	2	3	
Rated current	Reference amb. temp. (40°C)	In(A) 5, 10, 15, 20, 30, 32, 40, 50						10, 15, 20, 30, 32, 40, 50		15, 20, 30, 40, 50		
Rated impulse withstand voltage		Uimp(kV) 6		6		6		6		6		
Isolation compliant		●		●		●		●		●		
Rated insulation voltage Ui (V)		AC 500		690		690		690		690		
		DC -		250*1		250*1		250*1		250		
Rated breaking capacity Icu/Ics (kA)	IEC 60947-2 EN 60947-2 JIS C 8201-2-1	AC	500V	-	1.5/1	5/3	7.5/4	25/7				
			440V	1.5/1	2.5/2	7.5/4	10/5	65/17				
			415V	1.5/1	2.5/2	7.5/4	10/5	65/17				
			400V	1.5/1	2.5/2	7.5/4	10/5	65/17				
			380V	1.5/1	2.5/2	7.5/4	10/5	65/17				
			240V	2.5/2	5/3	10/5	25/13	125/63				
		230V	2.5/2	5/3	10/5	25/13	125/63					
		DC	250V	-	2.5/2*1	5/3*1	5/3*1	40/20				
		GB14048.2	AC	400V	1.5/1	2.5/2	7.5/4	10/5	-			
				230V	2.5/2	5/3	10/5	25/13	-			
Conforming to standards	CE Marking		● (TÜV)		● (TÜV)		● (TÜV)		● (TÜV)		●	
	CCC certificate		●		●		●		●		-	
	Electrical Appliance and Material Safety Law <PS>E ²		●		●		●		●		●	
Dimensions (mm)			a	50	75	50	75	50	75	50	75	90
			b	100		100		100		100		155
			c	60		60		60		60		68
			d	84		84		84		84		95
Mass (kg)		0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	1.0	1.2	
Tripping device		Hydraulic-magnetic									Thermal-magnetic	
Front mounting, front connection	No-mark	○	○	○	○	○	○	○	○	○	○	
Front mounting, rear connection	X	○	○	○	○	○	○	○	○	○	○	
Flush mounting, front connection	E	○	○	○	○	○	○	○	○	○	○	
Flush mounting, top & bottom connection	Y	○	○	○	○	○	○	○	○	-	-	
Plug-in mounting	P	○	○	○	○	○	○	○	○	○	○	
IEC 35mm wide rail mounting	No-mark	○	○	○	○	○	○	○	○	-	-	
Internal accessories		Page 06/63										
Alarm switch	K	○	○	○	○	○	○	○	○	○	○	
Auxiliary switch	W	○	○	○	○	○	○	○	○	○	○	
Undervoltage trip	R	○	○	○	○	○	○	○	○	○	○	
Shunt trip	F	○	○	○	○	○	○	○	○	○	○	
External accessories		Page 06/66										
Handle padlocking device	Cap type	Q1/QN	○	○	○	○	○	○	○	○	○	
Handle padlocking device	Plate type	Q2	▲	▲	▲	▲	▲	▲	▲	○	○	
Operating handle	N-type	N	○	○	○	○	○	○	○	○	○	
Operating handle	V-type	V	○	○	○	○	○	○	○	○	○	
Terminal cover	Short	BT□S	○	○	○	○	○	○	○	○	○	
Terminal cover	Long	BT□L	○	○	○	○	○	○	○	○	○	
Insulation barrier	Interphase	BP	○	○	○	○	○	○	○	○	○	
	Earth	BL	○	○	○	○	○	○	○	-	-	
Handle locking cover	L1	○	○	○	○	○	○	○	○	○		
Flat terminal	SS	○	○	○	○	○	○	○	○	○		
Block terminal	SL	-	-	-	-	-	-	-	-	○	○	

●: Approved ○: Available -: Not available ▲: Factory-mounted accessory

Note: *1 Specify DC only when ordering circuit breakers for DC circuit.

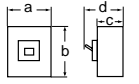
*2 Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers

G-TWIN series

Quick reference guide

■ G-TWIN Standard Series

Ampere frame		63A							
Type		BW63EAG		BW63SAG		BW63RAG			
Pole		2	3	2	3	2	3		
Rated current Reference amb. temp. (40°C)		In(A) 60, 63							
Rated impulse withstand voltage		Uimp(kV) 6		6		6			
Isolation compliant		●		●		●			
Rated insulation voltage Ui (V)		AC 690		690		690			
		DC 250*1		250*1		250*1			
Rated breaking capacity Icu/Ics (kA)	IEC 60947-2 EN 60947-2 JIS C 8201-2-1	AC	500V	1.5/1	5/3	7.5/4			
			440V	2.5/2	7.5/4	10/5			
			415V	2.5/2	7.5/4	10/5			
			400V	2.5/2	7.5/4	10/5			
			380V	2.5/2	7.5/4	10/5			
			240V	5/3	10/5	25/13			
			230V	5/3	10/5	25/13			
			DC	250V	2.5/2*1	5/3*1	5/3*1		
		GB14048.2	AC	400V	2.5/2	7.5/4	10/5		
			230V	5/3	10/5	25/13			
Conforming to standards	CE Marking		● (TÜV)		● (TÜV)		● (TÜV)		
	CCC certificate		●		●		●		
	Electrical Appliance and Material Safety Law <PS>E ²		●		●		●		
Dimensions (mm)			a	50	75	50	75	50	75
			b	100		100		100	
			c	60		60		60	
			d	84		84		84	
			Mass (kg)	0.4	0.5	0.4	0.5	0.4	0.5
Tripping device		Hydraulic-magnetic							
Front mounting, front connection		No-mark	○	○	○	○	○	○	
Front mounting, rear connection		X	○	○	○	○	○	○	
Flush mounting, front connection		E	○	○	○	○	○	○	
Flush mounting, top & bottom connection		Y	○	○	○	○	○	○	
Plug-in mounting		P	○	○	○	○	○	○	
IEC 35mm wide rail mounting		No-mark	○	○	○	○	○	○	
Internal accessories		Page 06/63							
Alarm switch		K	○	○	○	○	○	○	
Auxiliary switch		W	○	○	○	○	○	○	
Undervoltage trip		R	○	○	○	○	○	○	
Shunt trip		F	○	○	○	○	○	○	
External accessories		Page 06/66							
Handle padlocking device Cap type		QN	○	○	○	○	○	○	
Handle padlocking device Plate type		Q2	▲	▲	▲	▲	▲	▲	
Operating handle N-type		N	○	○	○	○	○	○	
Operating handle V-type		V	○	○	○	○	○	○	
Terminal cover Short		BT□S	○	○	○	○	○	○	
Terminal cover Long		BT□L	○	○	○	○	○	○	
Insulation barrier		Interphase	BP	○	○	○	○	○	
		Earth	BL	○	○	○	○	○	
Handle locking cover		L1	○	○	○	○	○		
Flat terminal		SS	○	○	○	○	○		
Block terminal		SL	-	-	-	-	-		

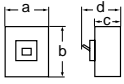
●: Approved ○: Available -: Not available ▲: Factory-mounted accessory

Note: *1 Specify DC only when ordering circuit breakers for DC circuit.

*2 Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers
G-TWIN series
 Quick reference guide

■ G-TWIN Standard Series

Ampere frame		100A					
Type		BW100AAG		BW100EAG			
Pole		2	3	2	3		
Rated current	Reference amb. temp. (40°C)	In(A)	60, 63, 75, 100		50, 60, 63, 75, 100		
Rated impulse withstand voltage		Uimp(kV)	6				
Isolation compliant		●		●			
Rated insulation voltage Ui (V)		AC	500		690		
		DC	-		250*1		
Rated breaking capacity Icu/Ics (kA)	IEC 60947-2 EN 60947-2 JIS C 8201-2-1	AC	500V	-		7.5/4	
			440V	-		10/5	
			415V	-		10/5	
			400V	1.5/1		10/5	
			380V	1.5/1		10/5	
			240V	5/3		25/13	
			230V	5/3		25/13	
			DC	250V		5/3*1	
		GB14048.2	AC	400V	1.5/1		10/5
				230V	5/3		25/13
Conforming to standards	CE Marking	● (TÜV)		● (TÜV)			
	CCC certificate	●		●			
	Electrical Appliance and Material Safety Law <PS>E ²	●		●			
Dimensions (mm)			a	50	75	50	75
			b	100			
			c	60			
			d	84			
			Mass (kg)	0.4	0.5	0.4	0.5
Tripping device		Thermal -magnetic					
Front mounting, front connection	No-mark	○	○	○	○		
Front mounting, rear connection	X	○	○	○	○		
Flush mounting, front connection	E	○	○	○	○		
Flush mounting, top & bottom connection	Y	○	○	○	○		
Plug-in mounting	P	○	○	○	○		
IEC 35mm wide rail mounting	No-mark	○	○	○	○		
Internal accessories		Page 06/63					
Alarm switch	K	○	○	○	○		
Auxiliary switch	W	○	○	○	○		
Undervoltage trip	R	○	○	○	○		
Shunt trip	F	○	○	○	○		
External accessories		Page 06/66					
Handle padlocking device	Cap type	QN	○	○	○		
Handle padlocking device	Plate type	Q2	▲	▲	▲		
Operating handle	N-type	N	○	○	○		
Operating handle	V-type	V	○	○	○		
Terminal cover	Short	BT□S	○	○	○		
Terminal cover	Long	BT□L	○	○	○		
Insulation barrier	Interphase	BP	○	○	○		
	Earth	BL	○	○	○		
Handle locking cover		L1	○	○	○		
Flat terminal		SS	○	○	○		
Block terminal		SL	-	-	-		

●: Approved ○: Available -: Not available ▲: Factory-mounted accessory

Note: *1 Specify DC only when ordering circuit breakers for DC circuit.

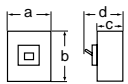
*2 Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers

G-TWIN series

Quick reference guide

■ G-TWIN Standard Series

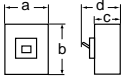
Ampere frame		125A												
Type		BW125JAG				BW125SAG			BW125RAG			BW125HAG		
Pole		2	3	4	2	3	4	2	3	4	2	3		
Rated current Reference amb. temp. (40°C)		In(A) 15, 20, 30, 40, 50, 60, 75, 100, 125												
Rated impulse withstand voltage		Uimp(kV) 6				6			6			6		
Isolation compliant		●				●			●			●		
Rated insulation voltage Ui (V)		AC		690		690			690			690		
		DC		250		250			250			250		
Rated breaking capacity Icu/Ics (kA)	IEC 60947-2 EN 60947-2 JIS C 8201-2-1	AC	690V	–	–	–			–			–		
			500V	5/3	8/4	10/5			10/5			25/7		
			440V	30/15	30/15	36/18			50/25			65/17		
			415V	30/15	30/15	36/18			50/25			65/17		
			400V	30/15	30/15	36/18			50/25			65/17		
			380V	30/15	30/15	36/18			50/25			65/17		
			240V	50/25	50/25	85/43			100/50			125/63		
		230V	50/25	50/25	85/43			100/50			125/63			
		GB14048.2	AC	400V	30/15	30/15	36/18			50/25			–	
				230V	50/25	50/25	85/43			100/50			–	
Conforming to standards	CE Marking		● (TÜV)				● (TÜV)			● (TÜV)			●	
	CCC certificate		●				●			●			–	
	Electrical Appliance and Material Safety Law <PS>E ²		● (except for 125A)				● (except for 125A)			● (except for 125A)			● (except for 125A)	
Dimensions (mm)			a	60	90	120	90	90	120	90	90	120	90	
			b	155						155			155	
			c	68						68			68	
			d	95						95			95	
Mass (kg)		0.8	1.2	1.6	1.0	1.2	1.6	1.0	1.2	1.6	1.0	1.2		
Tripping device		Thermal-magnetic												
Front mounting, front connection		No-mark	○	○	○	○	○	○	○	○	○	○	○	
Front mounting, rear connection		X	○	○	○	○	○	○	○	○	○	○	○	
Flush mounting, front connection		E	○	○	○	○	○	○	○	○	○	○	○	
Plug-in mounting		P	○	○	–	○	○	–	○	○	–	○	○	
Internal accessories		Page 06/64												
Alarm switch		K	○	○	○	○	○	○	○	○	○	○	○	
Auxiliary switch		W	○	○	○	○	○	○	○	○	○	○	○	
Undervoltage trip		R	–	○	○	○	○	○	○	○	○	○	○	
Shunt trip		F	○	○	○	○	○	○	○	○	○	○	○	
External accessories		Page 06/66												
Handle padlocking device Cap type		Q1	○	○	○	○	○	○	○	○	○	○	○	
Handle padlocking device Plate type		Q2	–	○	○	○	○	○	○	○	○	○	○	
Operating handle N-type		N	○	○	○	○	○	○	○	○	○	○	○	
Operating handle V-type		V	○	○	○	○	○	○	○	○	○	○	○	
Terminal cover Short		BT□S	○	○	○	○	○	○	○	○	○	○	○	
Terminal cover Long		BT□L	○	○	○	○	○	○	○	○	○	○	○	
Insulation barrier Interphase		BP	○	○	○	○	○	○	○	○	○	○	○	
Handle locking cover		L1	○	○	○	○	○	○	○	○	○	○	○	
Flat terminal		SS	○	○	○	○	○	○	○	○	○	○	○	
Block terminal		SL	○	○	○	○	○	○	○	○	○	○	○	

●: Approved ○: Available –: Not available

Note: * Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers
G-TWIN series
 Quick reference guide

■ G-TWIN Standard Series

Ampere frame			160A													
Type			BW160EAG			BW160JAG			BW160SAG			BW160RAG				
Pole			2	3	2	3	4	2	3	4	2	3	4			
Rated current Reference amb. temp. (40°C)		In(A)	125, 150, 160													
Rated impulse withstand voltage		Uimp(kV)	6			6			6			6				
Isolation compliant			●			●			●			●				
Rated insulation voltage Ui (V)		AC	690			690			690			690				
		DC	250			250			250			250				
Rated breaking capacity Icu/Ics (kA)	IEC 60947-2 EN 60947-2 JIS C 8201-2-1	AC	690V	-			-			-			-			
			500V	5/3			8/4			10/5			10/5			
			440V	18/9			30/15			36/18			50/25			
			415V	18/9			30/15			36/18			50/25			
			400V	18/9			30/15			36/18			50/25			
			380V	18/9			30/15			36/18			50/25			
			240V	36/18			50/25			85/43			100/50			
		230V	36/18			50/25			85/43			100/50				
		GB14048.2	AC	400V	18/9			30/15			36/18			50/25		
				230V	36/18			50/25			85/43			100/50		
Conforming to standards	CE Marking		● (TÜV)			● (TÜV)			● (TÜV)			● (TÜV)				
	CCC certificate		●			●			●			●				
	Electrical Appliance and Material Safety Law <PS>E*		-			-			-			-				
Dimensions (mm) 			a	105	105	105	105	140	105	105	140	105	105	140		
			b	165			165			165			165			
			c	68			68			68			68			
			d	95			95			95			95			
Mass (kg)			1.4	1.6	1.4	1.6	2.2	1.4	1.6	2.2	1.4	1.6	2.2			
Tripping device			Thermal-magnetic													
Front mounting, front connection		No-mark	○	○	○	○	○	○	○	○	○	○	○	○		
Front mounting, rear connection		X	○	○	○	○	○	○	○	○	○	○	○	○		
Flush mounting, front connection		E	○	○	○	○	○	○	○	○	○	○	○	○		
Plug-in mounting		P	○	○	○	○	-	○	○	-	○	○	-			
Internal accessories		Page 06/64														
Alarm switch		K	○	○	○	○	○	○	○	○	○	○	○	○		
Auxiliary switch		W	○	○	○	○	○	○	○	○	○	○	○	○		
Undervoltage trip		R	○	○	○	○	○	○	○	○	○	○	○	○		
Shunt trip		F	○	○	○	○	○	○	○	○	○	○	○	○		
External accessories		Page 06/66														
Handle padlocking device Cap type		Q1	○	○	○	○	○	○	○	○	○	○	○	○		
Handle padlocking device Plate type		Q2	○	○	○	○	○	○	○	○	○	○	○	○		
Operating handle N-type		N	○	○	○	○	○	○	○	○	○	○	○	○		
Operating handle V-type		V	○	○	○	○	○	○	○	○	○	○	○	○		
Terminal cover Short		BT□S	○	○	○	○	○	○	○	○	○	○	○	○		
Terminal cover Long		BT□L	○	○	○	○	○	○	○	○	○	○	○	○		
Insulation barrier Interphase		BP	○	○	○	○	○	○	○	○	○	○	○	○		
Handle locking cover		L1	○	○	○	○	○	○	○	○	○	○	○	○		
Flat terminal		SS	○	○	○	○	○	○	○	○	○	○	○	○		
Block terminal		SL	○	○	○	○	○	○	○	○	○	○	○	○		

●: Approved ○: Available -: Not available
 Note: * Electrical Appliance and Material Safety Law of Japan

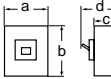
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Molded Case Circuit Breakers

G-TWIN series

Quick reference guide

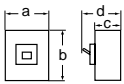
■ G-TWIN Standard Series

Ampere frame		250A															
Type		BW250EAG			BW250JAG			BW250SAG			BW250RAG			BW250HAG			
Pole		2	3	2	3	4	2	3	4	2	3	4	2	3			
Rated current	Reference amb. temp. (40°C)	175, 200, 225, 250												125, 150, 160, 175 200, 225, 250			
Rated impulse withstand voltage	Uimp(kV)	6			6			6			6			6			
Isolation compliant		●			●			●			●			●			
Rated insulation voltage Ui (V)	AC	690			690			690			690			690			
	DC	250			250			250			250			250			
Rated breaking capacity Icu/Ics (kA)	IEC 60947-2 EN 60947-2 JIS C 8201-2-1	AC	690V	-			-			-			-			-	
			500V	5/3			8/4			10/5			10/5			25/7	
			440V	18/9			30/15			36/18			50/25			65/17	
			415V	18/9			30/15			36/18			50/25			65/17	
			400V	18/9			30/15			36/18			50/25			65/17	
			380V	18/9			30/15			36/18			50/25			65/17	
			240V	36/18			50/25			85/43			100/50			125/63	
	230V	36/18			50/25			85/43			100/50			125/63			
	GB14048.2	AC	250V	10/5			20/10			30/15			30/15			40/20	
			400V	18/9			30/15			36/18			50/25			-	
Conforming to standards	CE Marking	● (TÜV)			● (TÜV)			● (TÜV)			● (TÜV)			●			
	CCC certificate	●			●			●			●			-			
	Electrical Appliance and Material Safety Law <PS>E*	-			-			-			-			-			
Dimensions (mm)		a	105	105	105	105	140	105	105	140	105	105	140	105	105		
		b	165			165			165			165			165		
		c	68			68			68			68			68		
		d	95			95			95			95			95		
Mass (kg)		1.4	1.6	1.4	1.6	2.2	1.4	1.6	2.2	1.4	1.6	2.2	1.4	1.6			
Tripping device		Thermal-magnetic															
Front mounting, front connection	No-mark	○	○	○	○	○	○	○	○	○	○	○	○	○			
Front mounting, rear connection	X	○	○	○	○	○	○	○	○	○	○	○	○	○			
Flush mounting, front connection	E	○	○	○	○	○	○	○	○	○	○	○	○	○			
Plug-in mounting	P	○	○	○	○	-	○	○	-	○	○	-	○	○			
Internal accessories	Page 06/64																
Alarm switch	K	○	○	○	○	○	○	○	○	○	○	○	○	○			
Auxiliary switch	W	○	○	○	○	○	○	○	○	○	○	○	○	○			
Undervoltage trip	R	○	○	○	○	○	○	○	○	○	○	○	○	○			
Shunt trip	F	○	○	○	○	○	○	○	○	○	○	○	○	○			
External accessories	Page 06/66																
Handle padlocking device Cap type	Q1	○	○	○	○	○	○	○	○	○	○	○	○	○			
Handle padlocking device Plate type	Q2	○	○	○	○	○	○	○	○	○	○	○	○	○			
Operating handle N-type	N	○	○	○	○	○	○	○	○	○	○	○	○	○			
Operating handle V-type	V	○	○	○	○	○	○	○	○	○	○	○	○	○			
Terminal cover Short	BT□S	○	○	○	○	○	○	○	○	○	○	○	○	○			
Terminal cover Long	BT□L	○	○	○	○	○	○	○	○	○	○	○	○	○			
Insulation barrier Interphase	BP	○	○	○	○	○	○	○	○	○	○	○	○	○			
Handle locking cover	L1	○	○	○	○	○	○	○	○	○	○	○	○	○			
Flat terminal	SS	○	○	○	○	○	○	○	○	○	○	○	○	○			
Block terminal	SL	○	○	○	○	○	○	○	○	○	○	○	○	○			

●: Approved ○: Available -: Not available
 Note: * Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers
G-TWIN series
 Quick reference guide

■ G-TWIN Standard Series

Ampere frame			400A													
Type			BW400EAG			BW400SAG			BW400RAG			BW400HAG				
Pole			2	3	2	3	2	3	4	2	3	4				
Rated current Reference amb. temp. (40°C)		In(A)	250, 300, 350, 400													
Rated impulse withstand voltage		Uimp(kV)	8			8			8			8				
Isolation compliant			●			●			●			●				
Rated insulation voltage Ui (V)		AC	690			690			690			690				
		DC	250			250			250			250				
Rated breaking capacity Icu/Ics (kA)	IEC 60947-2 EN 60947-2 JIS C 8201-2-1	AC	690V	-			10/5			15/8			15/8			
			500V	18/9			20/10			36/18			42/21			
			440V	30/15			36/18			50/25			70/35			
			415V	30/15			36/18			50/25			70/35			
			400V	30/15			36/18			50/25			70/35			
			380V	30/15			36/18			50/25			70/35			
			240V	50/25			85/43			100/50			125/63			
		230V	50/25			85/43			100/50			125/63				
		GB14048.2	AC	400V	30/15			36/18			50/25			70/35		
				230V	50/25			85/43			100/50			125/63		
Conforming to standards	CE Marking		● (TÜV)			● (TÜV)			● (TÜV)			● (TÜV)				
	CCC certificate		●			●			●			●				
	Electrical Appliance and Material Safety Law <PS>E ^{*1}		-			-			-			-				
Dimensions (mm) 			a	140	140	140	140	140	140	185	140	140	185			
			b	257			257			257			257			
			c	103			103			103			103			
			d	146			146			146			146			
Mass (kg)			4.6	5.6	4.6	5.6	4.6	5.6	7.4	4.6	5.6	7.4				
Tripping device			Thermal-magnetic													
Front mounting, front connection		No-mark	○	○	○	○	○	○	○	○	○	○	○			
Front mounting, rear connection		X	○	○	○	○	○	○	○	○	○	○	○			
Flush mounting, front connection		E	○	○	○	○	○	○	○	○	○	○	○			
Plug-in mounting		P	○	○	○	○	○	○	○	-	○	○	-			
Internal accessories		Page 06/65														
Alarm switch		K	○	○	○	○	○	○	○	○	○	○	○			
Auxiliary switch		W	○	○	○	○	○	○	○	○	○	○	○			
Undervoltage trip		R	○	○	○	○	○	○	○	○	○	○	○			
Shunt trip		F	○	○	○	○	○	○	○	○	○	○	○			
External accessories		Page 06/66														
Handle padlocking device Cap type		QN	○	○	○	○	○	○	○	○	○	○	○			
Handle padlocking device Plate type		Q2	○	○	○	○	○	○	○	○	○	○	○			
Operating handle N-type		N	○	○	○	○	○	○	○	○	○	○	○			
Operating handle V-type		V	○	○	○	○	○	○	○	○	○	○	○			
Terminal cover Short		BT□S	○	○	○	○	○	○	○	○	○	○	○			
Terminal cover Long		BT□L	○	○	○	○	○	○	○	○	○	○	○			
Insulation barrier Interphase		BP	○	○	○	○	○	○	○	○	○	○	○			
Handle locking cover		L1	○	○	○	○	○	○	○	○	○	○	○			
Flat terminal		SS	○ ^{*2}	○ ^{*2}	○ ^{*2}	○ ^{*2}	○ ^{*2}	○ ^{*2}	○ ^{*2}	○ ^{*2}	○ ^{*2}	○ ^{*2}	○ ^{*2}			
Block terminal		SL	○	○	○	○	○	○	○	○	○	○	○			

●: Approved ○: Available -: Not available
 Note: ^{*1} Electrical Appliance and Material Safety Law of Japan
^{*2} Standard provided

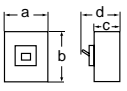
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Molded Case Circuit Breakers

G-TWIN series

Quick reference guide

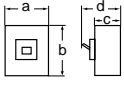
■ G-TWIN Standard Series

Ampere frame		630A						800A									
Type		BW630EAG		BW630RAG		BW630HAG		BW800EAG		BW800RAG		BW800HAG					
Pole		3		3		4		3		3		4					
Rated current Reference amb. temp. (40°C)		In(A)		500, 600, 630						700, 800							
Rated impulse withstand voltage		Uimp(kV)		8		8		8		8		8					
Isolation compliant		●		●		●		●		●		●					
Rated insulation voltage Ui (V)		AC		690		690		690		690		690					
		DC		250		250		250		250		250					
Rated breaking capacity Icu/Ics (kA)		IEC 60947-2 EN 60947-2 JIS C 8201-2-1		AC		690V		-		15/8		15/8		-			
						600V		-		-		-		-		-	
				500V		18/9		36/18		42/21		18/9		36/18		42/21	
				440V		36/18		50/25		70/35		36/18		50/25		70/35	
				415V		36/18		50/25		70/35		36/18		50/25		70/35	
				400V		36/18		50/25		70/35		36/18		50/25		70/35	
				380V		36/18		50/25		70/35		36/18		50/25		70/35	
				240V		50/25		100/50		125/63		50/25		100/50		125/63	
		230V		50/25		100/50		125/63		50/25		100/50		125/63			
		GB14048.2		AC		400V		36/18		50/25		70/35		36/18		50/25	
230V						50/25		100/50		125/63		50/25		100/50		125/63	
Conforming to standards		CE Marking		● (TÜV)		● (TÜV)		● (TÜV)		● (TÜV)		● (TÜV)		● (TÜV)			
		CCC certificate		●		●		●		●		●		●			
		Electrical Appliance and Material Safety Law <PS>E ¹		-		-		-		-		-		-			
Dimensions (mm)				a		210		210		280		210		280			
				b		275		275		275		275		275		275	
				c		103		103		103		103		103		103	
				d		146		146		146		146		146		146	
				Mass (kg)		7.8		7.8		10.3		7.8		10.3		8.3	
Tripping device		Thermal-magnetic															
Front mounting, front connection		No-mark		○		○		○		○		○		○			
Front mounting, rear connection		X		○		○		○		○		○		○			
Flush mounting, front connection		E		○		○		○		○		○		○			
Plug-in mounting		P		○		○		-		○		-		○			
Internal accessories		Page 06/65															
Alarm switch		K		○		○		○		○		○		○			
Auxiliary switch		W		○		○		○		○		○		○			
Undervoltage trip		R		○		○		○		○		○		○			
Shunt trip		F		○		○		○		○		○		○			
External accessories		Page 06/66															
Handle padlocking device Cap type		QN		○		○		○		○		○		○			
Handle padlocking device Plate type		Q2		○		○		○		○		○		○			
Operating handle N-type		N		○		○		○		○		○		○			
Operating handle V-type		V		○		○		○		○		○		○			
Terminal cover Long		BTCL		○		○		○		○		○		○			
Insulation barrier Interphase		BP		○		○		○		○		○		○			
Handle locking cover		L1		○		○		○		○		○		○			
Flat terminal		SS		○ ^{*2}		○ ^{*2}		○ ^{*2}		○ ^{*2}		○ ^{*2}		○ ^{*2}			
Block terminal		SL		○		○		○		○		○		○			

●: Approved ○: Available -: Not available
 Note: ^{*1} Electrical Appliance and Material Safety Law of Japan
^{*2} Standard provided

Molded Case Circuit Breakers
G-TWIN series
 Quick reference guide

■ G-TWIN Global Series

Ampere frame		50A				100A					
Type		BW50RAGU				BW100EAGU					
Pole		2		3		2		3			
Rated current	Reference amb. temp. (40°C)	In(A)				60, 63, 70, 75, 80, 90, 100					
Rated impulse withstand voltage		Uimp(kV)				6					
Isolation compliant		●				●					
Rated insulation voltage Ui (V)		AC 690				690					
Rated breaking capacity	IEC 60947-2 EN 60947-2 JIS C 8201-2-1 Icu/Ics (kA)	AC	500V	7.5/4		7.5/4		7.5/4			
			440V	10/5		10/5		10/5			
			415V	10/5		10/5		10/5			
			400V	10/5		10/5		10/5			
			380V	10/5		10/5		10/5			
			240V	25/13		25/13		25/13			
			230V	25/13		25/13		25/13			
GB14048.2 Icu/Ics(kA)	AC	400V	7/4	10/5	7/4	10/5	10/5				
		230V	14/7	25/13	14/7	25/13	25/13				
UL489 CAN/CSA C22.2 NO.5 (kA)	AC	240V	14		-		14				
		Conforming to standards	CE Marking		● (TÜV)				● (TÜV)		
CCC certificate			●				●				
UL Listed (NEMA AB1)			●				●				
Electrical Appliance and Material Safety Law <PS>E*1			●				●				
Dimensions (inch(mm))			a	1.969 (50)		2.953 (75)		1.969 (50)		2.953 (75)	
			b	4.724 (120)				4.724 (120)			
			c	2.362 (60)				2.362 (60)			
			d	3.307 (84)				3.307 (84)			
Mass (kg)		0.5		0.6		0.5		0.6			
Tripping device		Hydraulic-magnetic									
Connecting terminal		Page 06/26									
Screw	S□	○	○	○	○	○	○	○	○		
Flat		○	○	○	○	○	○	○	○		
Block	-	-	-	-	-	-	-	-	-		
Internal accessories		Page 06/63									
Alarm switch	K	○	○	○	○	○	○	○	○		
Auxiliary switch	W	○	○	○	○	○	○	○	○		
Undervoltage trip	R	○	○	○	○	○	○	○	○		
Shunt trip	F	○	○	○	○	○	○	○	○		
External accessories		Page 06/66									
Handle padlocking device	Cap type QN	○	○	○	○	○	○	○	○		
Operating handle	N-type N	○	○	○	○	○	○	○	○		
Operating handle	V-type V	○	○	○	○	○	○	○	○		
Terminal cover	Short BT□S	○*2	○	○	○	○	○	○	○		
Terminal cover	Long BT□L	○	○	○	○	○	○	○	○		
Insulation barrier	Interphase BP	○	○	○	○	○	○	○	○		
Handle locking cover	L1	○	○	○	○	○	○	○	○		

●: Approved ○: Available -: Not available

Note: *1 Electrical Appliance and Material Safety Law of Japan

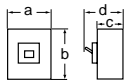
*2 Standard provided

Molded Case Circuit Breakers

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■ G-TWIN Global Series

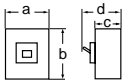
Ampere frame		125A						
Type		BW125JAGU		BW125RAGU				
Pole		2	3	2	3			
Rated current	Reference amb. temp. (40°C)	In(A) 15, 20, 30, 40, 50, 60, 70, 75, 80, 90, 100, 125						
Rated impulse withstand voltage		Uimp(kV) 6		6				
Isolation compliant		●		●				
Rated insulation voltage Ui (V)		AC	690		690			
		DC	250		250			
Rated breaking capacity	IEC 60947-2 EN 60947-2 JIS C 8201-2-1 Icu/Ics (kA)	AC	690V	-		5/3		
			500V	15/8		36/18		
			440V	30/15		50/25		
			415V	30/15		50/25		
			400V	30/15		50/25		
			380V	30/15		50/25		
			240V	50/25		100/50		
			230V	50/25		100/50		
	GB14048.2 Icu/Ics(kA)	AC	400V	30/15		50/25		
			230V	50/25		100/50		
			UL489 CAN/CSA C22.2 NO.5 (kA)	AC	600V/Y	10	10	18
					480V/Δ	-	30	50
DC	250V	15/8	40/20					
		125/250V	10	10	10			
Conforming to standards	CE Marking		● (TÜV)		● (TÜV)			
	CCC certificate		●		●			
	UL Listed (NEMA AB1)		●		●			
	Electrical Appliance and Material Safety Law <PS>E*		● (except for 125A)		● (except for 125A)			
Dimensions (inch(mm))		a	2.362 (60)	3.543 (90)	3.543 (90)			
		b	6.732 (171)		6.732 (171)			
		c	2.677 (68)		2.677 (68)			
		d	3.740 (95)		3.740 (95)			
Mass (kg)		0.8	1.2	1.0	1.2			
Tripping device		Thermal-magnetic						
Connecting terminal		Page 06/26						
Screw	S□	○	○	○	○			
Flat		○	○	○	○			
Block		○	○	○	○			
Internal accessories		Page 06/64						
Alarm switch	K	○	○	○	○			
Auxiliary switch	W	○	○	○	○			
Undervoltage trip	R	-	○	○	○			
Shunt trip	F	○	○	○	○			
External accessories		Page 06/66						
Handle padlocking device	Cap type	Q1	○	○	○			
Handle padlocking device	Plate type	Q2	○	○	○			
Operating handle	N-type	N	-	○	○			
Operating handle	V-type	V	-	○	○			
Operating handle	F-type	F	-	○	○			
Terminal cover	Short	BT□S	○	○	○			
Terminal cover	Long	BT□L	○	○	○			
Insulation barrier	Interphase	BP	○	○	○			
Handle locking cover		L1	○	○	○			

●: Approved ○: Available -: Not available

Note: * Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers
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■ G-TWIN Global Series

Ampere frame		250A							
Type		BW250EAGU		BW250JAGU		BW250RAGU			
Pole		2	3	2	3	2	3		
Rated current	Reference amb. temp. (40°C)	In(A) 125, 150, 160, 175, 200, 225, 250							
Rated impulse withstand voltage	Uimp(kV)	6		6		6			
Isolation compliant		●		●		●			
Rated insulation voltage Ui (V)		AC	690		690		690		
		DC	250		250		250		
Rated breaking capacity	IEC 60947-2 EN 60947-2 JIS C 8201-2-1 Icu/Ics (kA)	AC	690V	-		-		5/3	
			500V	10/5		18/9		36/18	
			440V	18/9		30/15		50/25	
			415V	18/9		30/15		50/25	
			400V	18/9		30/15		50/25	
			380V	18/9		30/15		50/25	
			240V	36/18		50/25		100/50	
	GB14048.2 Icu/Ics(kA)	AC	400V	18/9		30/15		50/25	
			230V	36/18		50/25		100/50	
			DC	250V 10/5		20/10		40/20	
	UL489 CAN/CSA C22.2 NO.5 (kA)	AC	600V/Y	-		10		25	
			480V/Δ	-		30		50	
			480V/Y	-		30		50	
			240V	22		50		100	
DC	125/250V		10		10		10		
Conforming to standards	CE Marking	● (TÜV)		● (TÜV)		● (TÜV)			
	CCC certificate	●		●		●			
	UL Listed (NEMA AB1)	●		●		●			
	Electrical Appliance and Material Safety Law <PS>E*	-		-		-			
Dimensions (inch(mm))		a	4.134 (105)		4.134 (105)		4.134 (105)		
		b	7.126 (181)		7.126 (181)		7.126 (181)		
		c	2.677 (68)		2.677 (68)		2.677 (68)		
		d	3.740 (95)		3.740 (95)		3.740 (95)		
		Mass (kg)	1.4	1.6		1.4	1.6		1.4
Tripping device		Thermal-magnetic							
Connecting terminal		Page 06/26							
Screw	S□	○	○	○	○	○	○		
Flat		○	○	○	○	○	○		
Block		○	○	○	○	○	○		
Internal accessories		Page 06/64							
Alarm switch	K	○	○	○	○	○	○		
Auxiliary switch	W	○	○	○	○	○	○		
Undervoltage trip	R	○	○	○	○	○	○		
Shunt trip	F	○	○	○	○	○	○		
External accessories		Page 06/66							
Handle padlocking device	Cap type Q1	○	○	○	○	○	○		
Handle padlocking device	Plate type Q2	○	○	○	○	○	○		
Operating handle	N-type N	○	○	○	○	○	○		
Operating handle	V-type V	○	○	○	○	○	○		
Operating handle	F-type F	○	○	○	○	○	○		
Terminal cover	Short BT□S	○	○	○	○	○	○		
Terminal cover	Long BT□L	○	○	○	○	○	○		
Insulation barrier	Interphase BP	○	○	○	○	○	○		
Handle locking cover	L1	○	○	○	○	○	○		

●: Approved ○: Available -: Not available
 Note: * Electrical Appliance and Material Safety Law of Japan

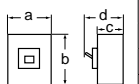
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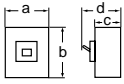
■ G-TWIN Global Series

Ampere frame		400A									
Type		BW400EAGU		BW400SAGU		BW400RAGU		BW400HAGU			
Pole		2	3	2	3	2	3	2	3		
Rated current	Reference amb. temp. (40°C)	In(A) 250, 300, 350, 400									
Rated impulse withstand voltage		8		8		8		8			
Isolation compliant		●		●		●		●			
Rated insulation voltage Ui (V)		AC	690		690		690		690		
		DC	250		250		250		250		
Rated breaking capacity	IEC 60947-2 EN 60947-2 JIS C 8201-2-1 Icu/Ics (kA)	AC	690V	-		10/5		15/8		15/8	
			500V	18/9		20/10		36/18		42/21	
			440V	30/15		36/18		50/25		70/35	
			415V	30/15		36/18		50/25		70/35	
			400V	30/15		36/18		50/25		70/35	
			380V	30/15		36/18		50/25		70/35	
			240V	50/25		85/43		100/50		125/63	
			230V	50/25		85/43		100/50		125/63	
	DC	250V	20/10		20/10		40/20		40/20		
		400V	30/15		36/18		50/25		70/35		
	GB14048.2 Icu/Ics(kA)	AC	230V	50/25		85/43		100/50		125/63	
			UL489 CAN/CSA C22.2 NO.5 (kA)	AC	600V/Δ	-		-		25	
	600V/Y	-			-		25				
	480V/Δ	-			35		50				
480V/Y	-				35		50				
DC	240V	22		50		100		125			
	125/250V	10		10		10		10			
Conforming to standards	CE Marking	● (TÜV)		● (TÜV)		● (TÜV)		● (TÜV)			
	CCC certificate	●		●		●		●			
	UL Listed (NEMA AB1)	●		●		●		●			
	Electrical Appliance and Material Safety Law <PS>E*	-		-		-		-			
Dimensions (inch(mm))		a	5.512 (140)		5.512 (140)		5.512 (140)		5.512 (140)		
		b	10.12 (257)		10.12 (257)		10.12 (257)		10.12 (257)		
		c	4.055 (103)		4.055 (103)		4.055 (103)		4.055 (103)		
		d	5.748 (146)		5.748 (146)		5.748 (146)		5.748 (146)		
Mass (kg)	4.6 5.6		4.6 5.6		4.6 5.6		4.6 5.6		4.6 5.6		
Tripping device		Thermal-magnetic									
Connecting terminal		Page 06/26									
Flat		○	○	○	○	○	○	○	○		
Block		○	○	○	○	○	○	○	○		
Internal accessories		Page 06/65									
Alarm switch		K	○	○	○	○	○	○	○		
Auxiliary switch		W	○	○	○	○	○	○	○		
Undervoltage trip		R	○	○	○	○	○	○	○		
Shunt trip		F	○	○	○	○	○	○	○		
External accessories		Page 06/66									
Handle padlocking device Cap type		QN	○	○	○	○	○	○	○		
Handle padlocking device Plate type		Q2	○	○	○	○	○	○	○		
Operating handle N-type		N	○	○	○	○	○	○	○		
Operating handle V-type		V	○	○	○	○	○	○	○		
Operating handle F-type		F	○	○	○	○	○	○	○		
Terminal cover Short		BTCS	○	○	○	○	○	○	○		
Terminal cover Long		BTCL	○	○	○	○	○	○	○		
Insulation barrier Interphase		BP	○	○	○	○	○	○	○		
Handle locking cover		L1	○	○	○	○	○	○	○		

●: Approved ○: Available -: Not available
 Note: * Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers
G-TWIN series
 Quick reference guide

■ G-TWIN Global Series

Ampere frame		630A		800A		
Type		BW630RAGU	BW630HAGU	BW800RAGU	BW800HAGU	
Pole		3	3	3	3	
Rated current	Reference amb. temp. (40°C)	In(A) 500, 600, 630* ¹		700, 800* ²		
Rated impulse withstand voltage		Uimp(kV) 8		8		
Isolation compliant		●		●		
Rated insulation voltage Ui (V)	AC	690		690		
	DC	250		250		
Rated breaking capacity	IEC 60947-2 EN 60947-2 JIS C 8201-2-1 Icu/Ics (kA)	AC	690V	15/8	15/8	15/8
			500V	36/18	42/21	36/18
			440V	50/25	70/35	50/25
			415V	50/25	70/35	50/25
			400V	50/25	70/35	50/25
			380V	50/25	70/35	50/25
			240V	100/50	125/63	100/50
			230V	100/50	125/63	100/50
	GB14048.2 Icu/Ics(kA)	AC	400V	50/25	70/35	50/25
			230V	100/50	125/63	100/50
	UL489 CAN/CSA C22.2 NO.5 (kA)	AC	600V/Δ	–	25	–
			600V/Y	–	25	–
			480V/Δ	50	65 (With block terminal:50)	50
			480V/Y	–	65 (With block terminal:50)	50
			240V	100	125	100
			DC	125/250V	10	10
Conforming to standards	CE Marking	● (TÜV)		● (TÜV)		
	CCC certificate	●		●		
	UL Listed (NEMA AB1)	●		●		
	Electrical Appliance and Material Safety Law <PS>E ³	–		–		
Dimensions (inch(mm))		a	8.268 (210)	8.268 (210)	8.268 (210)	
		b	10.83 (275)	10.83 (275)	10.83 (275)	
		c	4.055 (103)	4.055 (103)	4.055 (103)	
		d	5.748 (146)	5.748 (146)	5.748 (146)	
Mass (kg)		8.9	8.9	9.4	9.4	
Tripping device		Thermal-magnetic				
Connecting terminal	Page 06/26					
Flat		○	○	○	○	
Block		○	○	○	○	
Internal accessories	Page 06/65					
Alarm switch	K	○	○	○	○	
Auxiliary switch	W	○	○	○	○	
Undervoltage trip	R	○	○	○	○	
Shunt trip	F	○	○	○	○	
External accessories	Page 06/66					
Handle padlocking device	Cap type	QN	○	○	○	
Handle padlocking device	Plate type	Q2	○	○	○	
Operating handle	N-type	N	○	○	○	
Operating handle	V-type	V	○	○	○	
Terminal cover		BT□L	○	○	○	
Insulation barrier	Interphase	BP	○	○	○	
Handle locking cover		L1	○	○	○	

●: Approved ○: Available –: Not available

Note: *¹ Breakers for 630A cannot be manufactured with block terminals.

*² Block terminals are standard for Breakers for 800A.

*³ Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers

G-TWIN series

Quick reference guide

Motor protection breakers

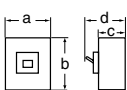
Motors are normally controlled by MCCBs and magnetic starters. In this case the MCCB carries out overcurrent or short-circuit current protection while the starter deals with ON-OFF switching

of the motor and offers protection against sustained overload currents. These are the motor breakers which combine the two functions.

FUJI motor breakers are designed to

eliminate erroneous operations due to the rush current produced at the time of starting the motor. They will trip in the face of sustained overcurrent when the integrated bimetal relay has operated.

■ G-TWIN Standard Series / Motor protection

Ampere frame		32A			
Type		BW32AAM		BW32SAM	
Pole		3		2	
Rated current Reference amb. temp. (40°C)		In(A)	1.4, 2.6, 4, 8, 10, 16, 24, 32	(2), (4), 5, 8, 10, 16	0.7, 1.4, 2, 2.6, 4, 5, 8, 10, 12, 16, 24, 32
Rated impulse withstand voltage		Uimp(kV)	6	6	6
Isolation compliant		●			
Rated insulation voltage Ui (V)		AC	500	690	690
Rated breaking capacity Icu/Ics (kA)	IEC 60947-2 EN 60947-2 JIS C 8201-2-1	AC	690V	–	–
			500V	–	1.5/1
			440V	1.5/1	2.5/2
			415V	1.5/1	2.5/2
			400V	1.5/1	2.5/2
			380V	1.5/1	2.5/2
			240V	2.5/2	5/3
			230V	2.5/2	5/3
			400V	1.5/1	2.5/2
			230V	2.5/2	5/3
Conforming to standards	CE Marking		●	●	●
	CCC certificate		●	●	●
	Electrical Appliance and Material Safety Law <PS>E ²		●	●	●
Dimensions (mm)					
Mass (kg)		0.5		0.4	0.5
Tripping device		Hydraulic-magnetic		Hydraulic-magnetic	Hydraulic-magnetic
Front mounting, front connection		No-mark	○	○	○
Front mounting, rear connection		X	○	○	○
Flush mounting, front connection		E	○	○	○
Flush mounting, top & bottom connection		Y	○	○	○
Plug-in mounting		P	○	○	○
IEC 35mm wide rail mounting			○	○	○
Internal accessories		Page 06/63			
Alarm switch		K	○	○	○
Auxiliary switch		W	○	○	○
Undervoltage trip		R	○	○	○
Shunt trip		F	○	○	○
External accessories		Page 06/66			
Handle padlocking device Cap type		QN	○	○	○
Handle padlocking device Plate type		Q2	▲	▲	▲
Operating handle N-type		N	○	○	○
Operating handle V-type		V	○	○	○
Terminal cover Short		BTCS	○	○	○
Terminal cover Long		BTCL	○	○	○
Insulation barrier Interphase		BP	○	○	○
Insulation barrier Earth		BL	○	○	○
Handle locking cover		L1	○	○	○
Flat terminal		SS	○	○	○
Block terminal		SL	–	–	–

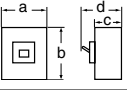
●: Approved ○: Available –: Not available ▲: Factory-mounted accessory

Note: *1 Specify DC only when ordering circuit breakers for DC circuit.

*2 Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers
G-TWIN series
 Quick reference guide

■ G-TWIN Standard Series / Motor protection

Ampere frame		50A			
Type		BW50EAM	BW50SAM	BW50RAM	
Pole		3	3	3	
Rated current	Reference amb. temp. (40°C)	In(A)	24, 32, 40, 45	0.7, 1.4, 2, 2.6, 4, 5, 8, 10, 12, 16, 24, 32, 40, 45	
Rated impulse withstand voltage		Uimp(kV)	6	6	
Isolation compliant			●	●	
Rated insulation voltage Ui (V)		AC	500	690	
Rated breaking capacity Icu/Ics (kA)	IEC 60947-2 EN 60947-2 JIS C 8201-2-1	AC	690V	–	
			500V	1.5/1	
			440V	2.5/2	
			415V	2.5/2	
			400V	2.5/2	
			380V	2.5/2	
			240V	5/3	
			230V	5/3	
		GB14048.2	AC	400V	2.5/2
				230V	5/3
Conforming to standards	CE Marking		●	●	
	CCC certificate		●	●	
	Electrical Appliance and Material Safety Law <PS>E ²		●	●	
Dimensions (mm)		a	75	75	
		b	100	100	
		c	60	60	
		d	84	84	
Mass (kg)			0.5	0.5	
Tripping device			Hydraulic-magnetic	Hydraulic-magnetic	
Front mounting, front connection	No-mark	○	○	○	
Front mounting, rear connection	X	○	○	○	
Flush mounting, front connection	E	○	○	○	
Flush mounting, top & bottom connection	Y	○	○	○	
Plug-in mounting	P	○	○	○	
IEC 35mm wide rail mounting		○	○	○	
Internal accessories		Page 06/63			
Alarm switch	K	○	○	○	
Auxiliary switch	W	○	○	○	
Undervoltage trip	R	○	○	○	
Shunt trip	F	○	○	○	
External accessories		Page 06/66			
Handle padlocking device	Cap type	QN	○	○	
Handle padlocking device	Plate type	Q2	▲	▲	
Operating handle	N-type	N	○	○	
Operating handle	V-type	V	○	○	
Terminal cover	Short	BTCS	○	○	
Terminal cover	Long	BTCL	○	○	
Insulation barrier	Interphase	BP	○	○	
Insulation barrier	Earth	BL	○	○	
Handle locking cover		L1	○	○	
Flat terminal		SS	○	○	
Block terminal		SL	–	–	

●: Approved ○: Available –: Not available ▲: Factory-mounted accessory

Note: *1 Specify DC only when ordering circuit breakers for DC circuit.

*2 Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers

G-TWIN series

Quick reference guide

■ G-TWIN Standard Series / Motor protection

Ampere frame		63A		100A	
Type		BW63EAM		BW63SAM	BW100EAM
Pole		3		3	3
Rated current	Reference amb. temp. (40°C)	In(A)	63	63	63, 75, 90
Rated impulse withstand voltage		Uimp(kV)	6	6	6
Isolation compliant			●	●	●
Rated insulation voltage Ui (V)		AC	690	690	690
Rated breaking capacity Icu/Ics (kA)	IEC 60947-2 EN 60947-2 JIS C 8201-2-1	AC	690V	–	–
			500V	1.5/1	5/3
			440V	2.5/2	7.5/4
			415V	2.5/2	7.5/4
			400V	2.5/2	7.5/4
			380V	2.5/2	7.5/4
			240V	5/3	10/5
			230V	5/3	10/5
			230V	5/3	10/5
			230V	5/3	10/5
Conforming to standards	CE Marking		●	●	●
	CCC certificate		●	●	●
	Electrical Appliance and Material Safety Law <PS>E ²		●	●	●
Dimensions (mm)			a	75	75
			b	100	100
			c	60	60
			d	84	84
					84
Mass (kg)			0.6	0.6	0.6
Tripping device			Hydraulic-magnetic	Hydraulic-magnetic	Hydraulic-magnetic
Front mounting, front connection		No-mark	○	○	○
Front mounting, rear connection		X	○	○	○
Flush mounting, front connection		E	○	○	○
Flush mounting, top & bottom connection		Y	○	○	○
Plug-in mounting		P	○	○	○
IEC 35mm wide rail mounting			○	○	○
Internal accessories		Page 06/63			
Alarm switch		K	○	○	○
Auxiliary switch		W	○	○	○
Undervoltage trip		R	○	○	○
Shunt trip		F	○	○	○
External accessories		Page 06/66			
Handle padlocking device Cap type		QN	○	○	○
Handle padlocking device Plate type		Q2	▲	▲	▲
Operating handle N-type		N	○	○	○
Operating handle V-type		V	○	○	○
Terminal cover Short		BT□S	○	○	○
Terminal cover Long		BT□L	○	○	○
Insulation barrier Interphase		BP	○	○	○
Insulation barrier Earth		BL	○	○	○
Handle locking cover		L1	○	○	○
Flat terminal		SS	○	○	○
Block terminal		SL	○	○	○

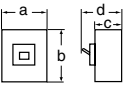
●: Approved ○: Available –: Not available ▲: Factory-mounted accessory

Note: *¹ Specify DC only when ordering circuit breakers for DC circuit.

*² Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers
G-TWIN series
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■ G-TWIN Standard Series / Motor protection

Ampere frame		125A		250A						
Type		BW125JAM	BW125RAM	BW250EAM	BW250JAM	BW250RAM				
Pole		3	3	3	3	3				
Rated current	Reference amb. temp. (40°C)	In(A) 16, 24, 32, 40, 45, 60, 75, 90		125, 150, 175, 225						
Rated impulse withstand voltage	Uimp(kV)	6	6	6	6	6				
Isolation compliant		●	●	●	●	●				
Rated insulation voltage	Ui (V)	AC 690		690						
Rated breaking capacity Icu/Ics (kA)	IEC 60947-2 EN 60947-2 JIS C 8201-2-1	AC	690V	–	–	–	–			
			500V	8/4	10/5	5/3	8/4	10/5		
			440V	30/15	50/25	18/9	30/15	50/25		
			415V	30/15	50/25	18/9	30/15	50/25		
			400V	30/15	50/25	18/9	30/15	50/25		
			380V	30/15	50/25	18/9	30/15	50/25		
			240V	50/25	100/50	36/18	50/25	100/50		
			230V	50/25	100/50	36/18	50/25	100/50		
			GB14048.2	AC	400V	30/15	50/25	18/9	30/15	50/25
					230V	50/25	100/50	36/18	50/25	100/50
Conforming to standards	CE Marking	●	●	●	●	●				
	CCC certificate	●	●	●	●	●				
	Electrical Appliance and Material Safety Law <PS>E ²	●	●	–	–	–				
Dimensions (mm)		a	90	90	105	105	105			
		b	155	155	165	165	165			
		c	68	68	68	68	68			
		d	95	95	95	95	95			
		Mass (kg)		1.2	1.2	1.6	1.6	1.6		
Tripping device		Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic				
Front mounting, front connection	No-mark	○	○	○	○	○				
Front mounting, rear connection	X	○	○	○	○	○				
Flush mounting, front connection	E	○	○	○	○	○				
Flush mounting, top & bottom connection	Y	○	○	○	○	○				
Plug-in mounting	P	○	○	○	○	○				
IEC 35mm wide rail mounting		○	○	○	○	○				
Internal accessories	Page 06/64									
Alarm switch	K	○	○	○	○	○				
Auxiliary switch	W	○	○	○	○	○				
Undervoltage trip	R	○	○	○	○	○				
Shunt trip	F	○	○	○	○	○				
External accessories	Page 06/66									
Handle padlocking device Cap type	Q1	○	○	○	○	○				
Handle padlocking device Plate type	Q2	○	○	○	○	○				
Operating handle N-type	N	○	○	○	○	○				
Operating handle V-type	V	○	○	○	○	○				
Terminal cover Short	BT□S	○	○	○	○	○				
Terminal cover Long	BT□L	○	○	○	○	○				
Insulation barrier Interphase	BP	○	○	○	○	○				
Handle locking cover	L1	○	○	○	○	○				
Flat terminal	SS	○	○	○	○	○				
Block terminal	SL	○	○	○	○	○				

●: Approved ○: Available –: Not available ▲: Factory-mounted accessory

Note: *1 Specify DC only when ordering circuit breakers for DC circuit.

*2 Electrical Appliance and Material Safety Law of Japan

Molded Case Circuit Breakers

G-TWIN series

Mounting modifications

■ Mounting modifications

• Standard series

Standard type FUJI breakers are front mounting with front connections. The standard breaker can easily be modified to become front mounting rear connection type, flush mounting type and plug-in type. The additional parts such as insulation bases, barriers, covers and similar parts are added as required.

**Front mounting
Front connection**



BASIC DESIGN



<p>Additional main parts</p> <p>Front mounting Rear connection (X type)</p>	<p>Bar stud terminal</p> <p>BW32 BW50 BW63 BW100</p>	<p>Additional main parts</p> <p>Flush mounting Rear connection (E type)</p>	<p>Bar stud terminal</p> <p>BW32 BW50 BW63 BW100</p>	<p>Additional main parts</p> <p>Plug-in mounting (P type)</p>	<p>Bar stud terminal</p> <p>BW32 BW50 BW63 BW100</p>
<p>Bar stud terminal</p>	<p>BW50HAG BW125 BW160 BW250 BW400 BW630 BW800</p> <p>Each stud can be turned by 90°</p>	<p>Bar stud terminal</p>	<p>BW50HAG BW125 BW160 BW250 BW400 BW630 BW800</p> <p>Each stud can be turned by 90°</p>	<p>Round stud terminal</p>	<p>BW50HAG BW125</p>
		<p>Additional main parts</p> <p>Flush mounting Top and bottom connection (Y type)</p>		<p>Bar stud terminal</p>	<p>BW160 BW250 BW400 BW630 BW800</p> <p>Each stud can be turned by 90°</p>
	<p>Decorative flush plate</p>	<p>BW32 BW50 BW63 BW100</p>			

• Global series

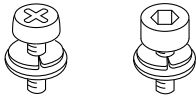
Front mounting
Front connection



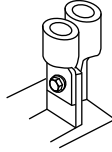
BASIC DESIGN



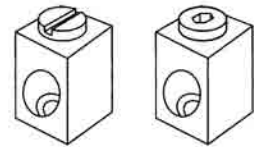
Screw



Flat terminal



Block terminal



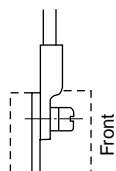
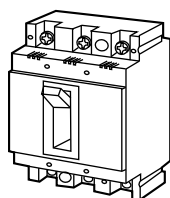
Molded Case Circuit Breakers

G-TWIN series

Terminal connection

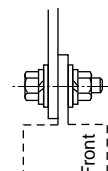
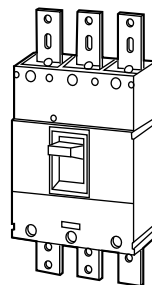
Terminal connection/Front mounting, front connection

• 32AF to 100AF

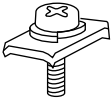



Flat terminal



• 400AF to 800AF



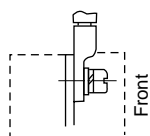
Flat terminal

Self lifting screw	Breaker type	Tightening torque (N•m)	Size
	BW32 BW50 BW100*	2.3 to 2.8	M5 × 14
Pan-head screw	BW63 BW100	5.5 to 7.5	M8 × 15
			



* Breaker of rated current : 50A

Hexagonal head bolt	Breaker type	Tightening torque (N•m)	Size (mm)
	BW400	40 to 50	M12 × 35
	BW630 BW800	40 to 50	M12 × 40

• 125AF to 250AF



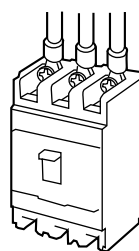
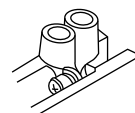
Front

Pan-head screw	Breaker type	Tightening torque (N•m)	Size (mm)
	BW50HAG BW125	5.5 to 7.5	M8 × 16
Hexagonal socket head bolt	BW160 BW250	8.0 to 13.0	M8 × 16
			

Type of connection/up to 250AF

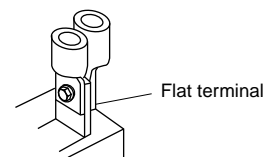
Front mounting front connection

Direct connection



Flat terminal connection

Flat terminals are required.



Flat terminal

Flat bar studs/1-hole type

Breaker type	Pole	Type of flat terminal
BW32 BW50	2 3	BZ6S10C502 BZ6S10C503
BW63 BW100*	2 3	BZ6S10C1002 BZ6S10C1003
BW50HAG BW125	2 3 4	BW9SS0CA-2 BW9SS0CA-3 BW9SS0CA-4
BW160 BW250	2 3 4	BZ-S50B-2252 BZ-S50B-2253 BW9SS0GA-4

* BW100 breaker of rated current 50A: BZ6S10C502 or 503.

Molded Case Circuit Breakers

G-TWIN series

Wire size and terminal

■ Wire size and crimp terminal

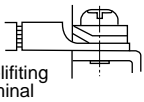
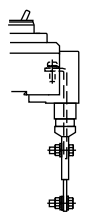
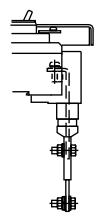
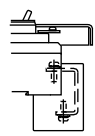
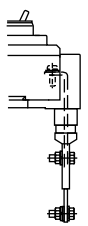
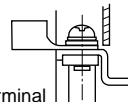
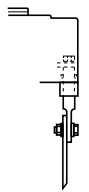
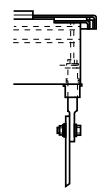
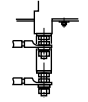
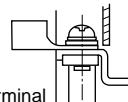
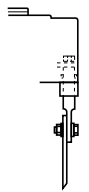
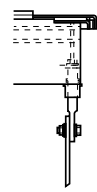
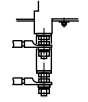
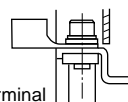
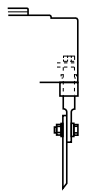
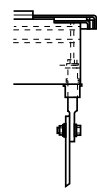
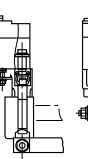
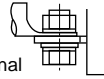



The following is the size recommendations for crimp terminals.

Crimp terminal R : JIS C2805
 CB : JEM-1399
 JST : Product of Japan Crimp Terminal Co., Ltd.

Ampere frame	Breaker	Wire size(mm ²)										
		1.04 2.63	2.63 6.64	6.64 10.52	10.52 16.78	16.78 26.66	26.66 42.42	42.42 60.57	96.3 117.2	117.2 152.05	192.6 242.27	242.27 325
32	BW32	R2-5	R5.5-5	R8-5	R14-5							
50	BW50AAG,EAG,SAG	R2-5	R5.5-5	R8-5	R14-5							
	BW50HAG	R2-8	R5.5-8	R8-8	R14-8	R22-8	JST38-S8	CB60-8				
63	BW63	R2-8	R5.5-8	R8-8	R14-8	JST22-S8						
100	BW100	R2-8	R5.5-8	R8-8	R14-8	JST22-S8	JST38-S8					
125	BW125	R2-8	R5.5-8	R8-8	R14-8	R22-8	JST38-S8	CB60-8				
160 250	BW160 BW250					R22-8	R38-8	R60-8	CB100-8			
400	BW400						R38-12	R60-12	R100-12	R150-12	R200-12	JST325-12
630	BW630								R100-12	R150-12	R200-12	JST325-12
800	BW800								R100-12	R150-12	R200-12	JST325-12

■ Breaker termination

• Standard

MCCB type	Front connection	Rear connection X	Flush mounting E	Y	Plug-in mounting P
BW32 BW50	Self-lifting terminal 				
BW63 BW100				—	
BW50HAG BW125	Flat terminal 			—	
BW160 BW250	Flat terminal 			—	
BW400 BW630 BW800	Flat terminal 	90° rotational stud 	90° rotational stud 	—	90° rotational stud 

Molded Case Circuit Breakers

G-TWIN series

Wire size and terminal

■ Notes on wiring (global series)

Notes on connecting wires (conductors)

- Connect wires to the UL breaker according to NEC (National Electric Code) or CEC (Canadian Electrical Code) Part 1.
- Use 75°C copper wires for wiring. UL-certified or CSA-certified wires are recommended.
- If a large current (for example, a short-circuit current) flows, it causes a huge electromagnetic force between wires. Therefore, be sure to secure the wires sufficiently.
- Re-tighten terminal screws periodically.

Block terminal connection

- Choose from the stranded wires shown in Table.

Wire size: AWG or MCM [mm ²]	No. of wires stranded
14 to 2 [2.1 to 33.6]	7
1 to 4/0 [42.4 to 107.2]	19
250 to 500 [127 to 250]	37

Values in [] are those converted from AWG or MCM sizes to mm².

- * See the instruction manual that comes with the breaker for more details.

Code	Terminal position		Applicable breaker type		
	Line	Load	BW50	BW100, 125, 250	BW400, 630, 800
Blank	Screw	Screw	●	●	—
Blank	Flat terminal	Flat terminal	—	—	●
SB	Block terminal	Block terminal	●	●	●
SF	Flat terminal	Flat terminal	●	●	—
S3	Screw	Flat terminal	●	●	—
S4	Flat terminal	Screw	●	●	—
S5	Screw	Block terminal	—	●	—
S6	Block terminal	Screw	—	●	—
S7	Flat terminal	Block terminal	—	●	●
S8	Block terminal	Flat terminal	—	●	●

Precautions

- Two wires of different sizes cannot be connected to the same block terminal.
- Be sure to use stranded wires according to Table "Number of wires stranded."
- Multi-conductor wires cannot be connected.
- Do not solder wires together.

Wire size and crimp terminal

• Crimp terminal connection

MCCB	Rated current (A)	Applicable crimp terminal			Connectable wire size (AWG)	Tightening torque (N•m)	Type of screw head and size (mm)
		J.S.T Mfg. Co., Ltd.	Nichifu Co., Ltd.	Daido Solderless Terminal Mfg. Co., Ltd.			
BW50RAGU	3	R2-5	R2-5M	2-S5, 2-5	14AWG	2.3-2.8	Cross/straight slotted pan-head screw M5 x 14
	5		R2-5				
	10						
	15						
	20	R5.5-5	R3.5-5S, R3.5-5L, 5.5-6N, R5.5-5S, R5.5-5	3.5-5, 5.5-S5, 5.5-5, 5.5-L5	12AWG		
30				10AWG			
40	R8-5	R8-5S, R8-5	8-S5, 8-5	8AWG			
50							
BW100EAGU	60	R14-8	R14-8S, R14-8	R14-S8, R14-8	6AWG	5.5-7.5	Cross/straight slotted pan-head screw M8 x 15
	75	22-S8	R22-8S, R22-8	R22-S8, 22-8	4AWG		
	100	38-S8	R38-8S	38-S8	3AWG		
BW125JAGU BW125RAGU	15	R2-8	R2-8	2-8, 2-B8	14AWG	5.8 (5.3-6.4)	Cross/straight slotted pan-head screw M8 x 16
	20	5.5-S8, R5.5-8	R3.5-8, R5.5-8	3.5-8, 5.5-8	12AWG		
	30		R5.5-8	5.5-8	10AWG		
	40	8-8NS, R8-8	R8-8	8-8	8AWG		
	50						
	60	14-8NS, 14-S8, R14-8	R14-8S, R14-8	14-S8, 14-8	6AWG		
	70	22-S8, R22-8, CB22-S8	R22-8S, R22-8, CB22-8S	22-S8, 22-8, CB22-8	4AWG		
	75						
	80						
	90	38-S8	R38-8S	38-S8	3AWG		
100							
125				1AWG			
BW250EAGU	125	38-S8, R38-8	R38-8S, R38-8	38-S8, 38-8	1AWG	10.5 (8-13)	Hexagon socket head bolt M8 x 16
BW250JAGU	150	60-S8, R60-8	R60-8, CB60-8, CB60-8S	60-8, CB60-8	1/0AWG		
BW250RAGU	175	70-8	R70-8	70-8	2/0AWG		
	200	CB80-S8		CB80-8	3/0AWG		
	225	CB100-S8		CB100-8	4/0AWG		
	250	CB150-S8	CB150-8	CB150-8	250MCM		

Notes: • AWG/MCM is the UL approved wire unit.

• The allowable temperature of wire is 75°C. (UL CSA approved)

• Be sure to use UL-certified or CSA-certified crimp tools commercially available.

Molded Case Circuit Breakers
G-TWIN series
Wire size and terminal

• Flat terminal connection

MCCB	Rated current (A)	Applicable crimp terminal 75°C wire			Connectable wire size (AWG)	Tightening torque (N•m)		Type of screw head and size (mm)
		J.S.T Mfg. Co., Ltd.	Nichifu Co., Ltd.	Daido Solderless Terminal Mfg. Co., Ltd.		75°C wire	Wire side	
BW50RAGU	3	R2-5	R2-5M R2-5	2-S5, 2-5	14AWG	3.5 to 4.5	2.3 to 2.8	Hexagon socket head bolt M5 x 16
	5							
	10							
	15							
	20	R5.5-5	R3.5-5S, R3.5-5L, 5.5-6N. R5.5-5S, R5.5-5	3.5-5, 5.5-S5 5.5-5, 5.5-L5	12AWG 10AWG			
	30							
40	R8-5	R8-5S, R8-5	8-S5, 8-5	8AWG				
50								
BW100EAGU	60	R14-8	R14-8S, R14-8	R14-S8, R14-8	6AWG	8 to 10	5.5 to 7.5	Hexagon socket head bolt M8 x 22
	75	22-S8	R22-8S, R22-8	R22-S8, 22-8	4AWG			
	100	38-S8	R38-8S	38-S8	3AWG			
BW125JAGU	15	R2-8	R2-8	2-8, 2-B8	14AWG	9 (8 to 10)	5.8 (5.3 to 6.4)	Cross/straight slotted pan-head screw M8 x 16
BW125RAGU	20	5.5-S8, R5.5-8	R3.5-8, R5.5-8	3.5-8, 5.5-8	12AWG			
	30							
	40	8-8NS, R8-8	R8-8	8-8	8AWG			
	50							
	60	14-8NS, 14-S8, R14-8	R14-8S, R14-8	14-S8, 14-8	6AWG			
	70	22-S8, R22-8, CB22-S8	R22-8S, R22-8, CB22-8S	22-S8, 22-8, CB22-8	4AWG			
	75	38-S8	R38-8S	38-S8	3AWG			
	80							
	90							
100	1AWG							
125								
BW250EAGU	125	38-S8, R38-8	R38-8S, R38-8	38-S8, 38-8	1AWG	9 (8 to 10)	10.5 (8 to 13)	Hexagon socket head bolt M8 x 16
BW250JAGU	150	60-S8, R60-8	R60-8, CB60-8, CB60-8S	60-8, CB60-8	1/0AWG			
BW250RAGU	175	70-8	R70-8	70-8	2/0AWG			
	200	CB80-S8		CB80-8	3/0AWG			
	225	CB100-S8		CB100-8	4/0AWG			
	250	CB150-S8	CB150-8	CB150-8	250MCM			
BW400EAGU	250	150-12	R150-12		250MCM	45 (40 to 50)	43.5 (39.2 to 48)	Hexagon head bolt M12 x 35
BW400SAGU	300	180-12	R180-12		350MCM			
BW400RAGU	350	325-12	R325-12N		500MCM			
BW400HAGU	400	325-12	R325-12N		500MCM			
		R80-12	R80-12		3/0AWG(x2)			
BW630RAGU	500	R150-12		R150-12	250MCM(x2)	47.04	47.04	Hexagon head bolt M12 x 40
BW630HAGU	600	180-12		R180-12	350MCM(x2)	(42.4 to 51.7)	(42.4 to 51.7)	
	630	325-12	R325-12N	R325-12 □	500MCM(x2)			
BW800RAGU	700	325-12		R325-12 □	500MCM(x2)	47.04	47.04	Hexagon head bolt M12 x 40
BW800HAGU						(42.4 to 51.7)	(42.4 to 51.7)	

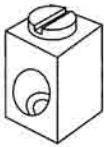

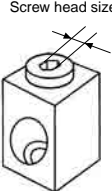
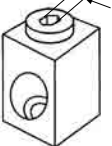
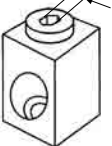
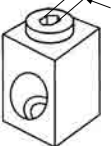
Notes: • AWG/MCM is the UL approved wire unit.
 • The allowable temperature of wire is 75°C. (UL CSA approved)

Molded Case Circuit Breakers

G-TWIN series

Wire size and terminal

• Block terminal connection

MCCB	Rated current (A)	Connectable wire size (AWG)	Tightening torque (N•m)	Type of screw head and size (mm)	Figure
BW100EAGU	60	6AWG	5.8 (5.5 to 6.5)	Slotted set screw	
	70	4AWG			
	75				
	80				
	90	3AWG			
	100				
BW125JAGU BW125RAGU	15	14AWG	5.8 (5.8 to 6.4)	Slotted set screw	
	20	12AWG			
	30	10AWG			
	40	8AWG			
	50				
	60	6AWG			
	70	4AWG			
	75				
	80				
	90	3AWG			
	100				
125	1AWG				
BW250EAGU BW250JAGU BW250RAGU	125	1AWG	23 (23 to 25.3)	Hexagon socket head setscrew: 8 mm (5/16 inch)	
	150	1/0AWG			
	175	2/0AWG			
	200	3/0AWG			
	225	4/0AWG			
	250	250MCM			
BW400EAGU BW400SAGU BW400RAGU BW400HAGU	250	250MCM	43.5 (43.5 to 48)	Hexagon socket head setscrew: 9.53 mm (3/8 inch)	
	300	350MCM			
	350	500MCM	31.9 (31.9 to 35.1)	Hexagon socket head setscrew: 8 mm (5/16 inch)	
	400	3/0AWG(x2)			
BW630RAGU BW630HAGU	500	250MCM(x2)	31.1 (31.1 to 34.2)	Hexagon socket head setscrew: 8 mm (5/16 inch)	
	600	350MCM(x2)			
BW800RAGU BW800HAGU	700	500MCM(x2)	31.1 (31.1 to 34.2)	Hexagon socket head setscrew: 8 mm (5/16 inch)	
	800	300MCM(x3)			

Notes: • AWG/MCM is the UL approved wire unit.
• The allowable temperature of wire is 75°C. (UL CSA approved)

Molded Case Circuit Breakers

G-TWIN series

Type number/Line protection

■ Type number, Standard series (Line protection)

● AAG series, 2-pole IEC/EN/GB/JIS conformed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
32	3	BW32AAG-2P003 <input type="checkbox"/>	Blank, X, E, Y, P
	5	BW32AAG-2P005 <input type="checkbox"/>	
	10	BW32AAG-2P010 <input type="checkbox"/>	
	15	BW32AAG-2P015 <input type="checkbox"/>	
	20	BW32AAG-2P020 <input type="checkbox"/>	
	30	BW32AAG-2P030 <input type="checkbox"/>	
	32	BW32AAG-2P032 <input type="checkbox"/>	
50	5	BW50AAG-2P005 <input type="checkbox"/>	Blank, X, E, Y, P
	10	BW50AAG-2P010 <input type="checkbox"/>	
	15	BW50AAG-2P015 <input type="checkbox"/>	
	20	BW50AAG-2P020 <input type="checkbox"/>	
	30	BW50AAG-2P030 <input type="checkbox"/>	
	32	BW50AAG-2P032 <input type="checkbox"/>	
	40	BW50AAG-2P040 <input type="checkbox"/>	
50	BW50AAG-2P050 <input type="checkbox"/>		

Mounting	Connection	<input type="checkbox"/>
Front	Front	Blank
Front	Rear	X
Flush	Rear	E
Flush	Top and bottom	Y
Plug-in		P

● EAG series, 2-pole IEC/EN/GB/JIS conformed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection		
50	5	BW50EAG-2P005 <input type="checkbox"/>	Blank, X, E, Y, P		
	10	BW50EAG-2P010 <input type="checkbox"/>			
	15	BW50EAG-2P015 <input type="checkbox"/>			
	20	BW50EAG-2P020 <input type="checkbox"/>			
	30	BW50EAG-2P030 <input type="checkbox"/>			
	32	BW50EAG-2P032 <input type="checkbox"/>			
	40	BW50EAG-2P040 <input type="checkbox"/>			
	50	BW50EAG-2P050 <input type="checkbox"/>			
	63	60		BW63EAG-2P060 <input type="checkbox"/>	Blank, X, E, Y, P
		63		BW63EAG-2P063 <input type="checkbox"/>	
100	50	BW100EAG-2P050 <input type="checkbox"/>	Blank, X, E, Y, P		
	60	BW100EAG-2P060 <input type="checkbox"/>			
	63	BW100EAG-2P063 <input type="checkbox"/>			
	75	BW100EAG-2P075 <input type="checkbox"/>			
	100	BW100EAG-2P100 <input type="checkbox"/>			
160	125	BW160EAG-2P125 <input type="checkbox"/>	Blank, X, E, P		
	150	BW160EAG-2P150 <input type="checkbox"/>			
	160	BW160EAG-2P160 <input type="checkbox"/>			
250	175	BW250EAG-2P175 <input type="checkbox"/>	Blank, X, E, P		
	200	BW250EAG-2P200 <input type="checkbox"/>			
	225	BW250EAG-2P225 <input type="checkbox"/>			
	250	BW250EAG-2P250 <input type="checkbox"/>			
400	250	BW400EAG-2P250 <input type="checkbox"/>	Blank, X, E, P		
	300	BW400EAG-2P300 <input type="checkbox"/>			
	350	BW400EAG-2P350 <input type="checkbox"/>			
	400	BW400EAG-2P400 <input type="checkbox"/>			

● JAG series, 2-pole IEC/EN/GB/JIS conformed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
125	15	BW125JAG-2P015 <input type="checkbox"/>	Blank, X, E, P
	20	BW125JAG-2P020 <input type="checkbox"/>	
	30	BW125JAG-2P030 <input type="checkbox"/>	
	40	BW125JAG-2P040 <input type="checkbox"/>	
	50	BW125JAG-2P050 <input type="checkbox"/>	
	60	BW125JAG-2P060 <input type="checkbox"/>	
	75	BW125JAG-2P075 <input type="checkbox"/>	
	100	BW125JAG-2P100 <input type="checkbox"/>	
	125	BW125JAG-2P125 <input type="checkbox"/>	
	160	125	
150		BW160JAG-2P150 <input type="checkbox"/>	
160		BW160JAG-2P160 <input type="checkbox"/>	
250	175	BW250JAG-2P175 <input type="checkbox"/>	Blank, X, E, P
	200	BW250JAG-2P200 <input type="checkbox"/>	
	225	BW250JAG-2P225 <input type="checkbox"/>	
	250	BW250JAG-2P250 <input type="checkbox"/>	

Molded Case Circuit Breakers

G-TWIN series

Type number/Line protection

● SAG series, 2-pole IEC/EN/GB/JIS conformed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
32	3	BW32SAG-2P003 <input type="checkbox"/>	Blank, X, E, Y, P
	5	BW32SAG-2P005 <input type="checkbox"/>	
	10	BW32SAG-2P010 <input type="checkbox"/>	
	15	BW32SAG-2P015 <input type="checkbox"/>	
	20	BW32SAG-2P020 <input type="checkbox"/>	
	30	BW32SAG-2P030 <input type="checkbox"/>	
	32	BW32SAG-2P032 <input type="checkbox"/>	
50	5	BW50SAG-2P005 <input type="checkbox"/>	Blank, X, E, Y, P
	10	BW50SAG-2P010 <input type="checkbox"/>	
	15	BW50SAG-2P015 <input type="checkbox"/>	
	20	BW50SAG-2P020 <input type="checkbox"/>	
	30	BW50SAG-2P030 <input type="checkbox"/>	
	32	BW50SAG-2P032 <input type="checkbox"/>	
	40	BW50SAG-2P040 <input type="checkbox"/>	
63	60	BW63SAG-2P060 <input type="checkbox"/>	Blank, X, E, Y, P
	63	BW63SAG-2P063 <input type="checkbox"/>	
125	15	BW125SAG-2P015 <input type="checkbox"/>	Blank, X, E, P
	20	BW125SAG-2P020 <input type="checkbox"/>	
	30	BW125SAG-2P030 <input type="checkbox"/>	
	40	BW125SAG-2P040 <input type="checkbox"/>	
	50	BW125SAG-2P050 <input type="checkbox"/>	
	60	BW125SAG-2P060 <input type="checkbox"/>	
	75	BW125SAG-2P075 <input type="checkbox"/>	
	100	BW125SAG-2P100 <input type="checkbox"/>	
160	125	BW160SAG-2P125 <input type="checkbox"/>	Blank, X, E, P
	150	BW160SAG-2P150 <input type="checkbox"/>	
	160	BW160SAG-2P160 <input type="checkbox"/>	
250	175	BW250SAG-2P175 <input type="checkbox"/>	Blank, X, E, P
	200	BW250SAG-2P200 <input type="checkbox"/>	
	225	BW250SAG-2P225 <input type="checkbox"/>	
	250	BW250SAG-2P250 <input type="checkbox"/>	
400	250	BW400SAG-2P250 <input type="checkbox"/>	Blank, X, E, P
	300	BW400SAG-2P300 <input type="checkbox"/>	
	350	BW400SAG-2P350 <input type="checkbox"/>	
	400	BW400SAG-2P400 <input type="checkbox"/>	

● HAG series, 2-pole IEC/EN/GB/JIS conformed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
400	250	BW400HAG-2P250 <input type="checkbox"/>	Blank, X, E, P
	300	BW400HAG-2P300 <input type="checkbox"/>	
	350	BW400HAG-2P350 <input type="checkbox"/>	
	400	BW400HAG-2P400 <input type="checkbox"/>	

* See page 06/29.

● RAG series, 2-pole IEC/EN/GB/JIS conformed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
50	10	BW50RAG-2P010 <input type="checkbox"/>	Blank, X, E, Y, P
	15	BW50RAG-2P015 <input type="checkbox"/>	
	20	BW50RAG-2P020 <input type="checkbox"/>	
	30	BW50RAG-2P030 <input type="checkbox"/>	
	32	BW50RAG-2P032 <input type="checkbox"/>	
	40	BW50RAG-2P040 <input type="checkbox"/>	
	50	BW50RAG-2P050 <input type="checkbox"/>	
	63	60	
63		BW63RAG-2P063 <input type="checkbox"/>	
125	15	BW125RAG-2P015 <input type="checkbox"/>	Blank, X, E, P
	20	BW125RAG-2P020 <input type="checkbox"/>	
	30	BW125RAG-2P030 <input type="checkbox"/>	
	40	BW125RAG-2P040 <input type="checkbox"/>	
	50	BW125RAG-2P050 <input type="checkbox"/>	
	60	BW125RAG-2P060 <input type="checkbox"/>	
	75	BW125RAG-2P075 <input type="checkbox"/>	
	100	BW125RAG-2P100 <input type="checkbox"/>	
160	125	BW160RAG-2P125 <input type="checkbox"/>	Blank, X, E, P
	150	BW160RAG-2P150 <input type="checkbox"/>	
	160	BW160RAG-2P160 <input type="checkbox"/>	
250	175	BW250RAG-2P175 <input type="checkbox"/>	Blank, X, E, P
	200	BW250RAG-2P200 <input type="checkbox"/>	
	225	BW250RAG-2P225 <input type="checkbox"/>	
	250	BW250RAG-2P250 <input type="checkbox"/>	
400	250	BW400RAG-2P250 <input type="checkbox"/>	Blank, X, E, P
	300	BW400RAG-2P300 <input type="checkbox"/>	
	350	BW400RAG-2P350 <input type="checkbox"/>	
	400	BW400RAG-2P400 <input type="checkbox"/>	

● HAG series, 2-pole IEC/EN/JIS conformed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
50	15	BW50HAG-2P015 <input type="checkbox"/>	Blank, X, E, P
	20	BW50HAG-2P020 <input type="checkbox"/>	
	30	BW50HAG-2P030 <input type="checkbox"/>	
	40	BW50HAG-2P040 <input type="checkbox"/>	
	50	BW50HAG-2P050 <input type="checkbox"/>	
125	15	BW125HAG-2P015 <input type="checkbox"/>	Blank, X, E, P
	20	BW125HAG-2P020 <input type="checkbox"/>	
	30	BW125HAG-2P030 <input type="checkbox"/>	
	40	BW125HAG-2P040 <input type="checkbox"/>	
	50	BW125HAG-2P050 <input type="checkbox"/>	
	60	BW125HAG-2P060 <input type="checkbox"/>	
	75	BW125HAG-2P075 <input type="checkbox"/>	
	100	BW125HAG-2P100 <input type="checkbox"/>	
250	125	BW250HAG-2P125 <input type="checkbox"/>	Blank, X, E, P
	150	BW250HAG-2P150 <input type="checkbox"/>	
	160	BW250HAG-2P160 <input type="checkbox"/>	
	175	BW250HAG-2P175 <input type="checkbox"/>	
	200	BW250HAG-2P200 <input type="checkbox"/>	
	225	BW250HAG-2P225 <input type="checkbox"/>	
	250	BW250HAG-2P250 <input type="checkbox"/>	

Molded Case Circuit Breakers
G-TWIN series
Type number/Line protection

● **AAG series, 3-pole IEC/EN/GB/JIS conformed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
32	3	BW32AAG-3P003 <input type="checkbox"/>	Blank, X, E, Y, P
	5	BW32AAG-3P005 <input type="checkbox"/>	
	10	BW32AAG-3P010 <input type="checkbox"/>	
	15	BW32AAG-3P015 <input type="checkbox"/>	
	20	BW32AAG-3P020 <input type="checkbox"/>	
	30	BW32AAG-3P030 <input type="checkbox"/>	
	32	BW32AAG-3P032 <input type="checkbox"/>	
50	5	BW50AAG-3P005 <input type="checkbox"/>	Blank, X, E, Y, P
	10	BW50AAG-3P010 <input type="checkbox"/>	
	15	BW50AAG-3P015 <input type="checkbox"/>	
	20	BW50AAG-3P020 <input type="checkbox"/>	
	30	BW50AAG-3P030 <input type="checkbox"/>	
	32	BW50AAG-3P032 <input type="checkbox"/>	
	40	BW50AAG-3P040 <input type="checkbox"/>	
50	BW50AAG-3P050 <input type="checkbox"/>		
100	60	BW100AAG-3P060 <input type="checkbox"/>	Blank, X, E, Y, P
	63	BW100AAG-3P063 <input type="checkbox"/>	
	75	BW100AAG-3P075 <input type="checkbox"/>	
	100	BW100AAG-3P100 <input type="checkbox"/>	

● **EAG series, 3-pole IEC/EN/GB/JIS conformed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*		
50	5	BW50EAG-3P005 <input type="checkbox"/>	Blank, X, E, Y, P		
	10	BW50EAG-3P010 <input type="checkbox"/>			
	15	BW50EAG-3P015 <input type="checkbox"/>			
	20	BW50EAG-3P020 <input type="checkbox"/>			
	30	BW50EAG-3P030 <input type="checkbox"/>			
	32	BW50EAG-3P032 <input type="checkbox"/>			
	40	BW50EAG-3P040 <input type="checkbox"/>			
	50	BW50EAG-3P050 <input type="checkbox"/>			
	63	60		BW63EAG-3P060 <input type="checkbox"/>	Blank, X, E, Y, P
		63		BW63EAG-3P063 <input type="checkbox"/>	
100	50	BW100EAG-3P050 <input type="checkbox"/>	Blank, X, E, Y, P		
	60	BW100EAG-3P060 <input type="checkbox"/>			
	63	BW100EAG-3P063 <input type="checkbox"/>			
	75	BW100EAG-3P075 <input type="checkbox"/>			
	100	BW100EAG-3P100 <input type="checkbox"/>			
160	125	BW160EAG-3P125 <input type="checkbox"/>	Blank, X, E, P		
	150	BW160EAG-3P150 <input type="checkbox"/>			
	160	BW160EAG-3P160 <input type="checkbox"/>			
250	175	BW250EAG-3P175 <input type="checkbox"/>	Blank, X, E, P		
	200	BW250EAG-3P200 <input type="checkbox"/>			
	225	BW250EAG-3P225 <input type="checkbox"/>			
	250	BW250EAG-3P250 <input type="checkbox"/>			
400	250	BW400EAG-3P250 <input type="checkbox"/>	Blank, X, E, P		
	300	BW400EAG-3P300 <input type="checkbox"/>			
	350	BW400EAG-3P350 <input type="checkbox"/>			
	400	BW400EAG-3P400 <input type="checkbox"/>			
630	500	BW630EAG-3P500 <input type="checkbox"/>	Blank, X, E, P		
	600	BW630EAG-3P600 <input type="checkbox"/>			
	630	BW630EAG-3P630 <input type="checkbox"/>			
800	700	BW800EAG-3P700 <input type="checkbox"/>	Blank, X, E, P		
	800	BW800EAG-3P800 <input type="checkbox"/>			

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● **JAG series, 3-pole IEC/EN/GB/JIS conformed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
125	15	BW125JAG-3P015 <input type="checkbox"/>	Blank, X, E, P
	20	BW125JAG-3P020 <input type="checkbox"/>	
	30	BW125JAG-3P030 <input type="checkbox"/>	
	40	BW125JAG-3P040 <input type="checkbox"/>	
	50	BW125JAG-3P050 <input type="checkbox"/>	
	60	BW125JAG-3P060 <input type="checkbox"/>	
	75	BW125JAG-3P075 <input type="checkbox"/>	
	100	BW125JAG-3P100 <input type="checkbox"/>	
	125	BW125JAG-3P125 <input type="checkbox"/>	
160	125	BW160JAG-3P125 <input type="checkbox"/>	Blank, X, E, P
	150	BW160JAG-3P150 <input type="checkbox"/>	
	160	BW160JAG-3P160 <input type="checkbox"/>	
250	175	BW250JAG-3P175 <input type="checkbox"/>	Blank, X, E, P
	200	BW250JAG-3P200 <input type="checkbox"/>	
	225	BW250JAG-3P225 <input type="checkbox"/>	
	250	BW250JAG-3P250 <input type="checkbox"/>	

* See page 06/29.

Molded Case Circuit Breakers
G-TWIN series
 Type number/Line protection

● **SAG series, 3-pole IEC/EN/GB/JIS conformed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
32	3	BW32SAG-3P003 <input type="checkbox"/>	Blank, X, E, Y, P
	5	BW32SAG-3P005 <input type="checkbox"/>	
	10	BW32SAG-3P010 <input type="checkbox"/>	
	15	BW32SAG-3P015 <input type="checkbox"/>	
	20	BW32SAG-3P020 <input type="checkbox"/>	
	30	BW32SAG-3P030 <input type="checkbox"/>	
	32	BW32SAG-3P032 <input type="checkbox"/>	
50	5	BW50SAG-3P005 <input type="checkbox"/>	Blank, X, E, Y, P
	10	BW50SAG-3P010 <input type="checkbox"/>	
	15	BW50SAG-3P015 <input type="checkbox"/>	
	20	BW50SAG-3P020 <input type="checkbox"/>	
	30	BW50SAG-3P030 <input type="checkbox"/>	
	32	BW50SAG-3P032 <input type="checkbox"/>	
	40	BW50SAG-3P040 <input type="checkbox"/>	
63	60	BW63SAG-3P060 <input type="checkbox"/>	Blank, X, E, Y, P
	63	BW63SAG-3P063 <input type="checkbox"/>	
125	15	BW125SAG-3P015 <input type="checkbox"/>	Blank, X, E, P
	20	BW125SAG-3P020 <input type="checkbox"/>	
	30	BW125SAG-3P030 <input type="checkbox"/>	
	40	BW125SAG-3P040 <input type="checkbox"/>	
	50	BW125SAG-3P050 <input type="checkbox"/>	
	60	BW125SAG-3P060 <input type="checkbox"/>	
	75	BW125SAG-3P075 <input type="checkbox"/>	
	100	BW125SAG-3P100 <input type="checkbox"/>	
160	125	BW160SAG-3P125 <input type="checkbox"/>	Blank, X, E, P
	150	BW160SAG-3P150 <input type="checkbox"/>	
	160	BW160SAG-3P160 <input type="checkbox"/>	
250	175	BW250SAG-3P175 <input type="checkbox"/>	Blank, X, E, P
	200	BW250SAG-3P200 <input type="checkbox"/>	
	225	BW250SAG-3P225 <input type="checkbox"/>	
	250	BW250SAG-3P250 <input type="checkbox"/>	
400	250	BW400SAG-3P250 <input type="checkbox"/>	Blank, X, E, P
	300	BW400SAG-3P300 <input type="checkbox"/>	
	350	BW400SAG-3P350 <input type="checkbox"/>	
	400	BW400SAG-3P400 <input type="checkbox"/>	

● **RAG series, 3-pole IEC/EN/GB/JIS conformed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
50	10	BW50RAG-3P010 <input type="checkbox"/>	Blank, X, E, Y, P
	15	BW50RAG-3P015 <input type="checkbox"/>	
	20	BW50RAG-3P020 <input type="checkbox"/>	
	30	BW50RAG-3P030 <input type="checkbox"/>	
	32	BW50RAG-3P032 <input type="checkbox"/>	
	40	BW50RAG-3P040 <input type="checkbox"/>	
	50	BW50RAG-3P050 <input type="checkbox"/>	
63	60	BW63RAG-3P060 <input type="checkbox"/>	Blank, X, E, Y, P
	63	BW63RAG-3P063 <input type="checkbox"/>	
125	15	BW125RAG-3P015 <input type="checkbox"/>	Blank, X, E, P
	20	BW125RAG-3P020 <input type="checkbox"/>	
	30	BW125RAG-3P030 <input type="checkbox"/>	
	40	BW125RAG-3P040 <input type="checkbox"/>	
	50	BW125RAG-3P050 <input type="checkbox"/>	
	60	BW125RAG-3P060 <input type="checkbox"/>	
	75	BW125RAG-3P075 <input type="checkbox"/>	
	100	BW125RAG-3P100 <input type="checkbox"/>	
160	125	BW160RAG-3P125 <input type="checkbox"/>	Blank, X, E, P
	150	BW160RAG-3P150 <input type="checkbox"/>	
	160	BW160RAG-3P160 <input type="checkbox"/>	
250	175	BW250RAG-3P175 <input type="checkbox"/>	Blank, X, E, P
	200	BW250RAG-3P200 <input type="checkbox"/>	
	225	BW250RAG-3P225 <input type="checkbox"/>	
	250	BW250RAG-3P250 <input type="checkbox"/>	
400	250	BW400RAG-3P250 <input type="checkbox"/>	Blank, X, E, P
	300	BW400RAG-3P300 <input type="checkbox"/>	
	350	BW400RAG-3P350 <input type="checkbox"/>	
	400	BW400RAG-3P400 <input type="checkbox"/>	
630	500	BW630RAG-3P500 <input type="checkbox"/>	Blank, X, E, P
	600	BW630RAG-3P600 <input type="checkbox"/>	
	630	BW630RAG-3P630 <input type="checkbox"/>	
800	700	BW800RAG-3P700 <input type="checkbox"/>	Blank, X, E, P
	800	BW800RAG-3P800 <input type="checkbox"/>	

● **HAG series, 3-pole IEC/EN/GB/JIS conformed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
400	250	BW400HAG-3P250 <input type="checkbox"/>	Blank, X, E, P
	300	BW400HAG-3P300 <input type="checkbox"/>	
	350	BW400HAG-3P350 <input type="checkbox"/>	
	400	BW400HAG-3P400 <input type="checkbox"/>	
630	500	BW630HAG-3P500 <input type="checkbox"/>	Blank, X, E, P
	600	BW630HAG-3P600 <input type="checkbox"/>	
	630	BW630HAG-3P630 <input type="checkbox"/>	
800	700	BW800HAG-3P700 <input type="checkbox"/>	Blank, X, E, P
	800	BW800HAG-3P800 <input type="checkbox"/>	

* See page 06/29.

Molded Case Circuit Breakers
G-TWIN series
Type number/Line protection

● **JAG series, 4-pole IEC/EN/GB/JIS conformed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
125	15	BW125JAG-4P015 <input type="checkbox"/>	Blank, X, E
	20	BW125JAG-4P020 <input type="checkbox"/>	
	30	BW125JAG-4P030 <input type="checkbox"/>	
	40	BW125JAG-4P040 <input type="checkbox"/>	
	50	BW125JAG-4P050 <input type="checkbox"/>	
	60	BW125JAG-4P060 <input type="checkbox"/>	
	75	BW125JAG-4P075 <input type="checkbox"/>	
	100	BW125JAG-4P100 <input type="checkbox"/>	
	125	BW125JAG-4P125 <input type="checkbox"/>	
160	125	BW160JAG-4P125 <input type="checkbox"/>	Blank, X, E
	150	BW160JAG-4P150 <input type="checkbox"/>	
	160	BW160JAG-4P160 <input type="checkbox"/>	
250	175	BW250JAG-4P175 <input type="checkbox"/>	Blank, X, E
	200	BW250JAG-4P200 <input type="checkbox"/>	
	225	BW250JAG-4P225 <input type="checkbox"/>	
	250	BW250JAG-4P250 <input type="checkbox"/>	

● **SAG series, 4-pole IEC/EN/GB/JIS conformed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
125	15	BW125SAG-3P015 <input type="checkbox"/>	Blank, X, E
	20	BW125SAG-3P020 <input type="checkbox"/>	
	30	BW125SAG-3P030 <input type="checkbox"/>	
	40	BW125SAG-3P040 <input type="checkbox"/>	
	50	BW125SAG-3P050 <input type="checkbox"/>	
	60	BW125SAG-3P060 <input type="checkbox"/>	
	75	BW125SAG-3P075 <input type="checkbox"/>	
	100	BW125SAG-3P100 <input type="checkbox"/>	
	125	BW125SAG-3P125 <input type="checkbox"/>	
160	125	BW160SAG-3P125 <input type="checkbox"/>	Blank, X, E
	150	BW160SAG-3P150 <input type="checkbox"/>	
	160	BW160SAG-3P160 <input type="checkbox"/>	
250	175	BW250SAG-3P175 <input type="checkbox"/>	Blank, X, E
	200	BW250SAG-3P200 <input type="checkbox"/>	
	225	BW250SAG-3P225 <input type="checkbox"/>	
	250	BW250SAG-3P250 <input type="checkbox"/>	

● **RAG series, 4-pole IEC/EN/GB/JIS conformed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
125	15	BW125RAG-4P015 <input type="checkbox"/>	Blank, X, E
	20	BW125RAG-4P020 <input type="checkbox"/>	
	30	BW125RAG-4P030 <input type="checkbox"/>	
	40	BW125RAG-4P040 <input type="checkbox"/>	
	50	BW125RAG-4P050 <input type="checkbox"/>	
	60	BW125RAG-4P060 <input type="checkbox"/>	
	75	BW125RAG-4P075 <input type="checkbox"/>	
	100	BW125RAG-4P100 <input type="checkbox"/>	
	125	BW125RAG-4P125 <input type="checkbox"/>	
160	125	BW160RAG-4P125 <input type="checkbox"/>	Blank, X, E
	150	BW160RAG-4P150 <input type="checkbox"/>	
	160	BW160RAG-4P160 <input type="checkbox"/>	
250	175	BW250RAG-4P175 <input type="checkbox"/>	Blank, X, E
	200	BW250RAG-4P200 <input type="checkbox"/>	
	225	BW250RAG-4P225 <input type="checkbox"/>	
	250	BW250RAG-4P250 <input type="checkbox"/>	
400	250	BW400RAG-4P250 <input type="checkbox"/>	Blank, X, E
	300	BW400RAG-4P300 <input type="checkbox"/>	
	350	BW400RAG-4P350 <input type="checkbox"/>	
	400	BW400RAG-4P400 <input type="checkbox"/>	
630	500	BW630RAG-4P500 <input type="checkbox"/>	Blank, X, E
	600	BW630RAG-4P600 <input type="checkbox"/>	
	630	BW630RAG-4P630 <input type="checkbox"/>	
800	700	BW800RAG-4P700 <input type="checkbox"/>	Blank, X, E
	800	BW800RAG-4P800 <input type="checkbox"/>	

● **HAG series, 4-pole IEC/EN/GB/JIS conformed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
400	250	BW400HAG-4P250 <input type="checkbox"/>	Blank, X, E
	300	BW400HAG-4P300 <input type="checkbox"/>	
	350	BW400HAG-4P350 <input type="checkbox"/>	
	400	BW400HAG-4P400 <input type="checkbox"/>	
630	500	BW630HAG-4P500 <input type="checkbox"/>	Blank, X, E
	600	BW630HAG-4P600 <input type="checkbox"/>	
	630	BW630HAG-4P630 <input type="checkbox"/>	
800	700	BW800HAG-4P700 <input type="checkbox"/>	Blank, X, E
	800	BW800HAG-4P800 <input type="checkbox"/>	

* See page 06/29.

Molded Case Circuit Breakers

G-TWIN series

Type number/Line protection

■ Type number, Global series (Line protection)

● EAGU series, 2-pole UL489 Listed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
100	60	BW100EAGU-2P060 <input type="checkbox"/>	Blank, SB, SF, S3 S4, S5, S6, S7, S8
	63	BW100EAGU-2P063 <input type="checkbox"/>	
	70	BW100EAGU-2P070 <input type="checkbox"/>	
	75	BW100EAGU-2P075 <input type="checkbox"/>	
	80	BW100EAGU-2P080 <input type="checkbox"/>	
	90	BW100EAGU-2P090 <input type="checkbox"/>	
	100	BW100EAGU-2P100 <input type="checkbox"/>	
250	125	BW250EAGU-2P125 <input type="checkbox"/>	Blank, SB, SF, S3 S4, S5, S6, S7, S8
	150	BW250EAGU-2P150 <input type="checkbox"/>	
	160	BW250EAGU-2P160 <input type="checkbox"/>	
	175	BW250EAGU-2P175 <input type="checkbox"/>	
	200	BW250EAGU-2P200 <input type="checkbox"/>	
	225	BW250EAGU-2P225 <input type="checkbox"/>	
400	250	BW400EAGU-2P250 <input type="checkbox"/>	Blank, SB, S7, S8
	300	BW400EAGU-2P300 <input type="checkbox"/>	
	350	BW400EAGU-2P350 <input type="checkbox"/>	
	400	BW400EAGU-2P400 <input type="checkbox"/>	

● JAGU series, 2-pole UL489 Listed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
125	15	BW125JAGU-2P015 <input type="checkbox"/>	Blank, SB, SF, S3 S4, S5, S6, S7, S8
	20	BW125JAGU-2P020 <input type="checkbox"/>	
	30	BW125JAGU-2P030 <input type="checkbox"/>	
	40	BW125JAGU-2P040 <input type="checkbox"/>	
	50	BW125JAGU-2P050 <input type="checkbox"/>	
	60	BW125JAGU-2P060 <input type="checkbox"/>	
	70	BW125JAGU-2P070 <input type="checkbox"/>	
	75	BW125JAGU-2P075 <input type="checkbox"/>	
	80	BW125JAGU-2P080 <input type="checkbox"/>	
	90	BW125JAGU-2P090 <input type="checkbox"/>	
	100	BW125JAGU-2P100 <input type="checkbox"/>	
	125	BW125JAGU-2P125 <input type="checkbox"/>	
	250	125	
150		BW250JAGU-2P150 <input type="checkbox"/>	
160		BW250JAGU-2P160 <input type="checkbox"/>	
175		BW250JAGU-2P175 <input type="checkbox"/>	
200		BW250JAGU-2P200 <input type="checkbox"/>	
225		BW250JAGU-2P225 <input type="checkbox"/>	
250		BW250JAGU-2P250 <input type="checkbox"/>	

Terminal combination

Code	Terminal position		Breaker type		
	Line	Load	BW50	BW100,125,250	BW400,630,800
Blank	Screw	Screw	●	●	-
Blank	Flat terminal	Flat terminal	-	-	●
SB	Block terminal	Block terminal	-	●	●
SF	Flat terminal	Flat terminal	●	●	-
S3	Screw	Flat terminal	●	●	-
S4	Flat terminal	Screw	●	●	-
S5	Screw	Block terminal	-	●	-
S6	Block terminal	Screw	-	●	-
S7	Flat terminal	Block terminal	-	●	●
S8	Block terminal	Flat terminal	-	●	●

● SAGU series, 2-pole UL489 Listed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
400	250	BW400SAGU-2P250 <input type="checkbox"/>	Blank, SB, S7, S8
	300	BW400SAGU-2P300 <input type="checkbox"/>	
	350	BW400SAGU-2P350 <input type="checkbox"/>	
	400	BW400SAGU-2P400 <input type="checkbox"/>	

● RAGU series, 2-pole UL489 Listed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
50	3	BW50RAGU-2P003 <input type="checkbox"/>	Blank, SF, S3, S4
	5	BW50RAGU-2P005 <input type="checkbox"/>	
	10	BW50RAGU-2P010 <input type="checkbox"/>	
	15	BW50RAGU-2P015 <input type="checkbox"/>	
	20	BW50RAGU-2P020 <input type="checkbox"/>	
	30	BW50RAGU-2P030 <input type="checkbox"/>	
	32	BW50RAGU-2P032 <input type="checkbox"/>	
	40	BW50RAGU-2P040 <input type="checkbox"/>	
	50	BW50RAGU-2P050 <input type="checkbox"/>	
	125	15	
20		BW125RAGU-2P020 <input type="checkbox"/>	
30		BW125RAGU-2P030 <input type="checkbox"/>	
40		BW125RAGU-2P040 <input type="checkbox"/>	
50		BW125RAGU-2P050 <input type="checkbox"/>	
60		BW125RAGU-2P060 <input type="checkbox"/>	
70		BW125RAGU-2P070 <input type="checkbox"/>	
75		BW125RAGU-2P075 <input type="checkbox"/>	
80		BW125RAGU-2P080 <input type="checkbox"/>	
90		BW125RAGU-2P090 <input type="checkbox"/>	
100		BW125RAGU-2P100 <input type="checkbox"/>	
125		BW125RAGU-2P125 <input type="checkbox"/>	
250	125	BW250RAGU-2P125 <input type="checkbox"/>	Blank, SB, SF, S3 S4, S5, S6, S7, S8
	150	BW250RAGU-2P150 <input type="checkbox"/>	
	160	BW250RAGU-2P160 <input type="checkbox"/>	
	175	BW250RAGU-2P175 <input type="checkbox"/>	
	200	BW250RAGU-2P200 <input type="checkbox"/>	
	225	BW250RAGU-2P225 <input type="checkbox"/>	
	250	BW250RAGU-2P250 <input type="checkbox"/>	
400	250	BW400RAGU-2P250 <input type="checkbox"/>	Blank, SB, S7, S8
	300	BW400RAGU-2P300 <input type="checkbox"/>	
	350	BW400RAGU-2P350 <input type="checkbox"/>	
	400	BW400RAGU-2P400 <input type="checkbox"/>	

● HAGU series, 2-pole UL489 Listed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
400	250	BW400HAGU-2P250 <input type="checkbox"/>	Blank, SB, S7, S8
	300	BW400HAGU-2P300 <input type="checkbox"/>	
	350	BW400HAGU-2P350 <input type="checkbox"/>	
	400	BW400HAGU-2P400 <input type="checkbox"/>	

Molded Case Circuit Breakers
G-TWIN series
Type number/Line protection

● **EAGU series, 3-pole UL489 Listed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
100	60	BW100EAGU-3P060 <input type="checkbox"/>	Blank, SB, SF, S3 S4, S5, S6, S7, S8
	63	BW100EAGU-3P063 <input type="checkbox"/>	
	70	BW100EAGU-3P070 <input type="checkbox"/>	
	75	BW100EAGU-3P075 <input type="checkbox"/>	
	80	BW100EAGU-3P080 <input type="checkbox"/>	
	90	BW100EAGU-3P090 <input type="checkbox"/>	
	100	BW100EAGU-3P100 <input type="checkbox"/>	
250	125	BW250EAGU-3P125 <input type="checkbox"/>	Blank, SB, SF, S3 S4, S5, S6, S7, S8
	150	BW250EAGU-3P150 <input type="checkbox"/>	
	160	BW250EAGU-3P160 <input type="checkbox"/>	
	175	BW250EAGU-3P175 <input type="checkbox"/>	
	200	BW250EAGU-3P200 <input type="checkbox"/>	
	225	BW250EAGU-3P225 <input type="checkbox"/>	
400	250	BW400EAGU-3P250 <input type="checkbox"/>	Blank, SB, S7, S8
	300	BW400EAGU-3P300 <input type="checkbox"/>	
	350	BW400EAGU-3P350 <input type="checkbox"/>	
	400	BW400EAGU-3P400 <input type="checkbox"/>	

● **JAGU series, 3-pole UL489 Listed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
125	15	BW125JAGU-3P015 <input type="checkbox"/>	Blank, SB, SF, S3 S4, S5, S6, S7, S8
	20	BW125JAGU-3P020 <input type="checkbox"/>	
	30	BW125JAGU-3P030 <input type="checkbox"/>	
	40	BW125JAGU-3P040 <input type="checkbox"/>	
	50	BW125JAGU-3P050 <input type="checkbox"/>	
	60	BW125JAGU-3P060 <input type="checkbox"/>	
	70	BW125JAGU-3P070 <input type="checkbox"/>	
	75	BW125JAGU-3P075 <input type="checkbox"/>	
	80	BW125JAGU-3P080 <input type="checkbox"/>	
	90	BW125JAGU-3P090 <input type="checkbox"/>	
	100	BW125JAGU-3P100 <input type="checkbox"/>	
	125	BW125JAGU-3P125 <input type="checkbox"/>	
	250	125	
150		BW250JAGU-3P150 <input type="checkbox"/>	
160		BW250JAGU-3P160 <input type="checkbox"/>	
175		BW250JAGU-3P175 <input type="checkbox"/>	
200		BW250JAGU-3P200 <input type="checkbox"/>	
225		BW250JAGU-3P225 <input type="checkbox"/>	
250		BW250JAGU-3P250 <input type="checkbox"/>	

● **SAGU series, 3-pole UL489 Listed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
400	250	BW400SAGU-3P250 <input type="checkbox"/>	Blank, SB, S7, S8
	300	BW400SAGU-3P300 <input type="checkbox"/>	
	350	BW400SAGU-3P350 <input type="checkbox"/>	
	400	BW400SAGU-3P400 <input type="checkbox"/>	

● **RAGU series, 3-pole UL489 Listed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*		
50	3	BW50RAGU-3P003 <input type="checkbox"/>	Blank, SB, S3, S4		
	5	BW50RAGU-3P005 <input type="checkbox"/>			
	10	BW50RAGU-3P010 <input type="checkbox"/>			
	15	BW50RAGU-3P015 <input type="checkbox"/>			
	20	BW50RAGU-3P020 <input type="checkbox"/>			
	30	BW50RAGU-3P030 <input type="checkbox"/>			
	32	BW50RAGU-3P032 <input type="checkbox"/>			
	40	BW50RAGU-3P040 <input type="checkbox"/>			
	50	BW50RAGU-3P050 <input type="checkbox"/>			
	125	15		BW125RAGU-3P015 <input type="checkbox"/>	Blank, SB, SF, S3 S4, S5, S6, S7, S8
		20		BW125RAGU-3P020 <input type="checkbox"/>	
30		BW125RAGU-3P030 <input type="checkbox"/>			
40		BW125RAGU-3P040 <input type="checkbox"/>			
50		BW125RAGU-3P050 <input type="checkbox"/>			
60		BW125RAGU-3P060 <input type="checkbox"/>			
70		BW125RAGU-3P070 <input type="checkbox"/>			
75		BW125RAGU-3P075 <input type="checkbox"/>			
80		BW125RAGU-3P080 <input type="checkbox"/>			
90		BW125RAGU-3P090 <input type="checkbox"/>			
100		BW125RAGU-3P100 <input type="checkbox"/>			
125		BW125RAGU-3P125 <input type="checkbox"/>			
250	125	BW250RAGU-3P125 <input type="checkbox"/>	Blank, SB, SF, S3 S4, S5, S6, S7, S8		
	150	BW250RAGU-3P150 <input type="checkbox"/>			
	160	BW250RAGU-3P160 <input type="checkbox"/>			
	175	BW250RAGU-3P175 <input type="checkbox"/>			
	200	BW250RAGU-3P200 <input type="checkbox"/>			
	225	BW250RAGU-3P225 <input type="checkbox"/>			
400	250	BW400RAGU-3P250 <input type="checkbox"/>	Blank, SB, S7, S8		
	300	BW400RAGU-3P300 <input type="checkbox"/>			
	350	BW400RAGU-3P350 <input type="checkbox"/>			
	400	BW400RAGU-3P400 <input type="checkbox"/>			
630	500	BW630RAGU-3P500 <input type="checkbox"/>	Blank, SB, S7, S8		
	600	BW630RAGU-3P600 <input type="checkbox"/>			
	630	BW630RAGU-3P630 <input type="checkbox"/>			
800	700	BW800RAGU-3P700 <input type="checkbox"/>	Blank, SB, S7, S8		
	800	BW800RAGU-3P800 <input type="checkbox"/>			

● **HAGU series, 3-pole UL489 Listed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
400	250	BW400HAGU-3P250 <input type="checkbox"/>	Blank, SB, S7, S8
	300	BW400HAGU-3P300 <input type="checkbox"/>	
	350	BW400HAGU-3P350 <input type="checkbox"/>	
	400	BW400HAGU-3P400 <input type="checkbox"/>	
630	500	BW630HAGU-3P500 <input type="checkbox"/>	Blank, SB, S7, S8
	600	BW630HAGU-3P600 <input type="checkbox"/>	
	630	BW630HAGU-3P630 <input type="checkbox"/>	
800	700	BW800HAGU-3P700 <input type="checkbox"/>	Blank, SB, S7, S8
	800	BW800HAGU-3P800 <input type="checkbox"/>	

* See page 06/34.

Molded Case Circuit Breakers

G-TWIN series

Type number/Motor protection

■ Type number, Standard series (Motor protection)

● SAM series, 2-pole IEC/EN/GB/JIS conformed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
32	0.7	BW32SAM-2P0P7 <input type="checkbox"/>	Blank, X, E, Y, P
	1.4	BW32SAM-2P1P4 <input type="checkbox"/>	
	2.6	BW32SAM-2P2P6 <input type="checkbox"/>	
	4	BW32SAM-2P004 <input type="checkbox"/>	
	8	BW32SAM-2P008 <input type="checkbox"/>	
	10	BW32SAM-2P010 <input type="checkbox"/>	
	16	BW32SAM-2P016 <input type="checkbox"/>	
	24	BW32SAM-2P024 <input type="checkbox"/>	
32	BW32SAM-2P032 <input type="checkbox"/>		

Mounting	Connection	<input type="checkbox"/>
Front	Front	Blank
Front	Rear	X
Flush	Rear	E
Flush	Top and bottom	Y
Plug-in		P

● AAM series, 3-pole IEC/EN/GB/JIS conformed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
32	1.4	BW32AAM-3P1P4 <input type="checkbox"/>	Blank, X, E, Y, P
	2.6	BW32AAM-3P2P6 <input type="checkbox"/>	
	4	BW32AAM-3P004 <input type="checkbox"/>	
	8	BW32AAM-3P008 <input type="checkbox"/>	
	10	BW32AAM-3P010 <input type="checkbox"/>	
	16	BW32AAM-3P016 <input type="checkbox"/>	
	24	BW32AAM-3P024 <input type="checkbox"/>	
	32	BW32AAM-3P032 <input type="checkbox"/>	

● EAM series, 3-pole IEC/EN/GB/JIS conformed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
50	24	BW50EAM-3P024 <input type="checkbox"/>	Blank, X, E, Y, P
	32	BW50EAM-3P032 <input type="checkbox"/>	
	40	BW50EAM-3P040 <input type="checkbox"/>	
	45	BW50EAM-3P045 <input type="checkbox"/>	
63	63	BW63EAM-3P063 <input type="checkbox"/>	Blank, X, E, Y, P
100	63	BW100EAM-3P063 <input type="checkbox"/>	Blank, X, E, Y, P
	75	BW100EAM-3P075 <input type="checkbox"/>	
	90	BW100EAM-3P090 <input type="checkbox"/>	
250	125	BW250EAM-3P125 <input type="checkbox"/>	Blank, X, E, P
	150	BW250EAM-3P150 <input type="checkbox"/>	
	175	BW250EAM-3P175 <input type="checkbox"/>	
	225	BW250EAM-3P225 <input type="checkbox"/>	

● JAM series, 3-pole IEC/EN/GB/JIS conformed

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
125	16	BW125JAM-3P016 <input type="checkbox"/>	Blank, X, E, P
	24	BW125JAM-3P024 <input type="checkbox"/>	
	32	BW125JAM-3P032 <input type="checkbox"/>	
	40	BW125JAM-3P040 <input type="checkbox"/>	
	60	BW125JAM-3P060 <input type="checkbox"/>	
	75	BW125JAM-3P075 <input type="checkbox"/>	
	90	BW125JAM-3P090 <input type="checkbox"/>	
250	125	BW250JAM-3P125 <input type="checkbox"/>	Blank, X, E, P
	150	BW250JAM-3P150 <input type="checkbox"/>	
	175	BW250JAM-3P175 <input type="checkbox"/>	
	225	BW250JAM-3P225 <input type="checkbox"/>	

Molded Case Circuit Breakers
G-TWIN series
Type number/Motor protection

● **SAM series, 3-pole IEC/EN/GB/JIS conformed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
32	0.7	BW32SAM-3P0P7 <input type="checkbox"/>	Blank, X, E, Y, P
	1.4	BW32SAM-3P1P4 <input type="checkbox"/>	
	2.6	BW32SAM-3P2P6 <input type="checkbox"/>	
	4	BW32SAM-3P004 <input type="checkbox"/>	
	8	BW32SAM-3P008 <input type="checkbox"/>	
	10	BW32SAM-3P010 <input type="checkbox"/>	
	16	BW32SAM-3P016 <input type="checkbox"/>	
	24	BW32SAM-3P024 <input type="checkbox"/>	
	32	BW32SAM-3P032 <input type="checkbox"/>	
50	0.7	BW50SAM-3P0P7 <input type="checkbox"/>	Blank, X, E, Y, P
	1.4	BW50SAM-3P1P4 <input type="checkbox"/>	
	2	BW50SAM-3P002 <input type="checkbox"/>	
	2.6	BW50SAM-3P2P6 <input type="checkbox"/>	
	4	BW50SAM-3P004 <input type="checkbox"/>	
	5	BW50SAM-3P005 <input type="checkbox"/>	
	8	BW50SAM-3P008 <input type="checkbox"/>	
	10	BW50SAM-3P010 <input type="checkbox"/>	
	12	BW50SAM-3P012 <input type="checkbox"/>	
	16	BW50SAM-3P016 <input type="checkbox"/>	
	24	BW50SAM-3P024 <input type="checkbox"/>	
	32	BW50SAM-3P032 <input type="checkbox"/>	
	40	BW50SAM-3P040 <input type="checkbox"/>	
45	BW50SAM-3P045 <input type="checkbox"/>		
63	63	BW63SAM-3P063 <input type="checkbox"/>	Blank, X, E, Y, P

● **RAM series, 3-pole IEC/EN/GB/JIS conformed**

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection*
50	0.7	BW50RAM-3P0P7 <input type="checkbox"/>	Blank, X, E, Y, P
	1.4	BW50RAM-3P1P4 <input type="checkbox"/>	
	2	BW50RAM-3P002 <input type="checkbox"/>	
	2.6	BW50RAM-3P2P6 <input type="checkbox"/>	
	4	BW50RAM-3P004 <input type="checkbox"/>	
	5	BW50RAM-3P005 <input type="checkbox"/>	
	8	BW50RAM-3P008 <input type="checkbox"/>	
	10	BW50RAM-3P010 <input type="checkbox"/>	
	12	BW50RAM-3P012 <input type="checkbox"/>	
	16	BW50RAM-3P016 <input type="checkbox"/>	
	24	BW50RAM-3P024 <input type="checkbox"/>	
	32	BW50RAM-3P032 <input type="checkbox"/>	
	40	BW50RAM-3P040 <input type="checkbox"/>	
45	BW50RAM-3P045 <input type="checkbox"/>		
125	16	BW125RAM-3P016 <input type="checkbox"/>	Blank, X, E, P
	24	BW125RAM-3P024 <input type="checkbox"/>	
	32	BW125RAM-3P032 <input type="checkbox"/>	
	40	BW125RAM-3P040 <input type="checkbox"/>	
	60	BW125RAM-3P060 <input type="checkbox"/>	
	75	BW125RAM-3P075 <input type="checkbox"/>	
	90	BW125RAM-3P090 <input type="checkbox"/>	
250	125	BW250RAM-3P125 <input type="checkbox"/>	Blank, X, E, P
	150	BW250RAM-3P150 <input type="checkbox"/>	
	175	BW250RAM-3P175 <input type="checkbox"/>	
	225	BW250RAM-3P225 <input type="checkbox"/>	

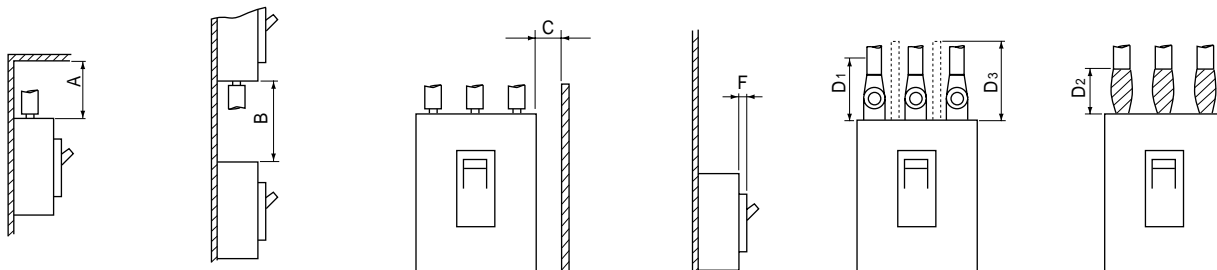
* See page 06/36.

Molded Case Circuit Breakers

G-TWIN series

Arc space

■ Arc space, mm

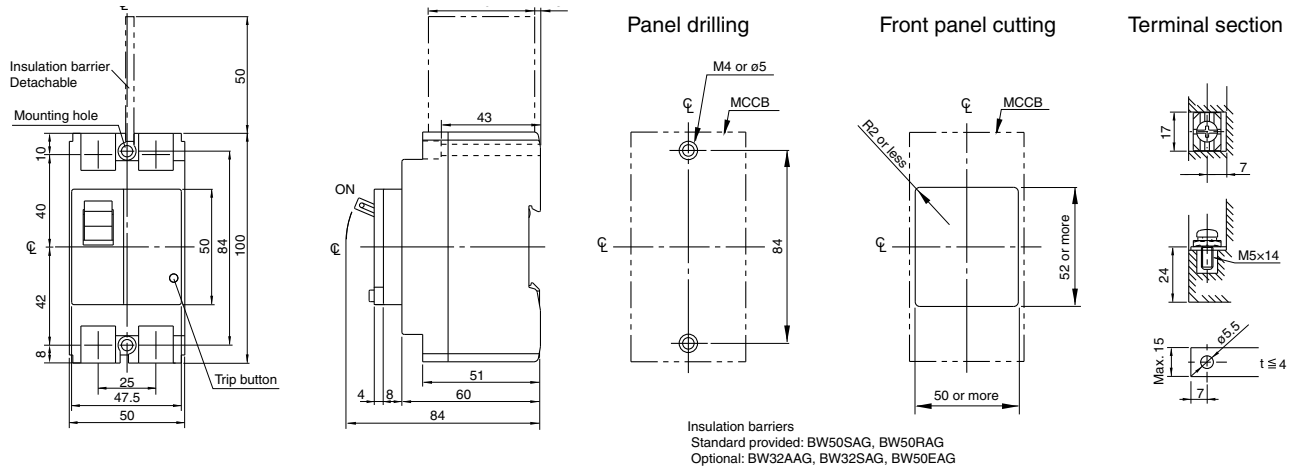


Frame size	MCCB basic type	Ceiling distance		Vertical distance		Side plate distance		Front plate distance				Taping		Barrier
		A		B		C		Painted		No painted		Crimp type terminal lug D1	Bus-bar D2	
		440V	230V	440V	230V	440V	230V	F	F	440V	230V			
32A	BW32A	–	10	–	10	–	10	–	0	–	0	Exposed live part dimension +20	10	10
	BW32S	10	10	30	30	20	15	0	0	0	0		30	30
50A	BW50A	–	10	–	10	–	10	–	0	–	0		10	10
	BW50E	10	10	30	30	25	15	0	0	0	0		30	30
	BW50S	30	10	40	40	25	15	0	0	0	0		30	30
	BW50R	50	25	50	50	25	15	0	0	10	5		50	50
	BW50H	60	60	80	80	50	20	5	0	10	5		80	80
63A	BW63E	10	10	30	30	25	15	0	0	0	0		30	30
	BW63S	30	10	40	40	25	15	0	0	0	0		30	30
	BW63R	50	25	50	50	25	15	0	0	10	5		50	50
100A	BW100A	–	10	–	20	–	15	–	0	–	0		50	50
	BW100E	50	25	50	50	25	15	0	0	10	5		50	50
125A	BW125J	40	40	50	50	25	20	0	0	10	5		50	50
	BW125S	40	40	60	60	25	20	5	0	10	5		50	50
	BW125R	40	40	60	60	25	20	5	0	10	5		50	50
	BW125H	60	60	80	80	50	20	5	0	10	5		80	80
160A	BW160E	40	40	50	50	50	15	0	0	10	5		80	80
	BW160J	40	40	60	60	50	20	0	0	10	5		80	80
	BW160S	40	40	80	80	50	20	5	0	10	10		80	80
	BW160R	40	40	80	80	50	20	5	0	10	10		80	80
250A	BW250E	40	40	50	50	50	15	0	0	10	5		80	80
	BW250J	40	40	60	60	50	20	0	0	10	5		80	80
	BW250S	40	40	80	80	50	20	5	0	10	10		80	80
	BW250R	40	40	80	80	50	20	5	0	10	10		80	80
	BW250H	60	60	80	80	60	60	5	0	10	10	80	80	
400A	BW400E	100	80	100	80	50	20	0	0	10	5	100	100	
	BW400S	100	80	100	80	50	20	0	0	10	5	100	100	
	BW400R	100	80	100	80	80	40	5	0	20	10	100	100	
	BW400H	100	80	100	80	80	40	5	0	20	10	100	100	
630A	BW630E	100	80	100	80	80	40	0	0	10	5	100	100	
	BW630R	100	80	100	80	80	40	5	0	20	10	100	100	
	BW630H	120	100	120	100	80	40	5	0	20	10	120	120	
800A	BW800E	100	80	100	80	80	40	0	0	10	5	100	100	
	BW800R	100	80	100	80	80	40	5	0	20	10	100	100	
	BW800H	120	100	120	100	80	40	5	0	20	20	120	120	

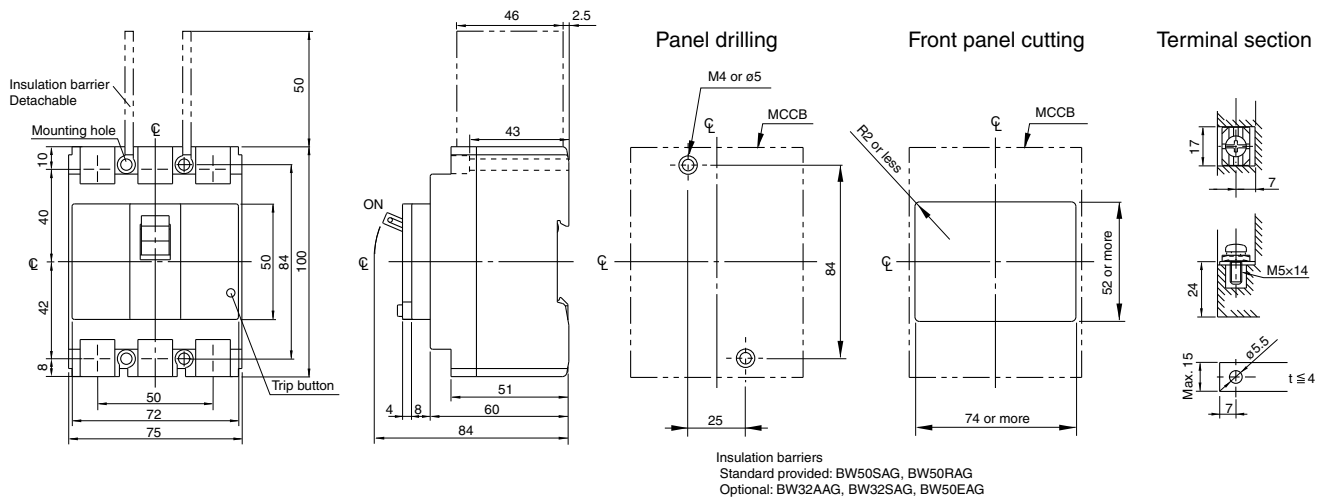
Molded Case Circuit Breakers G-TWIN series Dimensions / Standard

- Dimensions, mm
- Front mounting, front connection

BW32□-2P, BW50□-2P

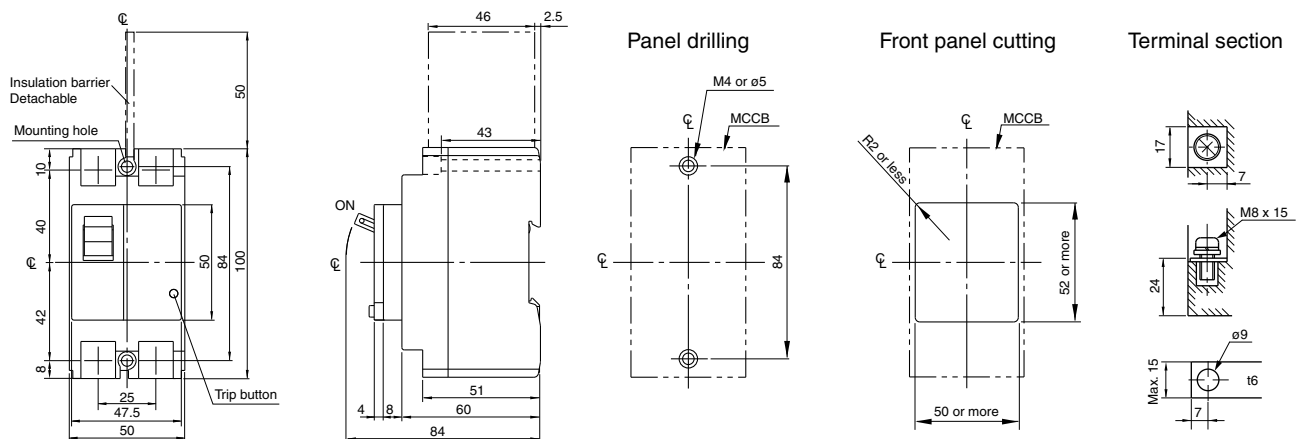


BW32□-3P, BW50□-3P



06

BW63□-2P



Molded Case Circuit Breakers

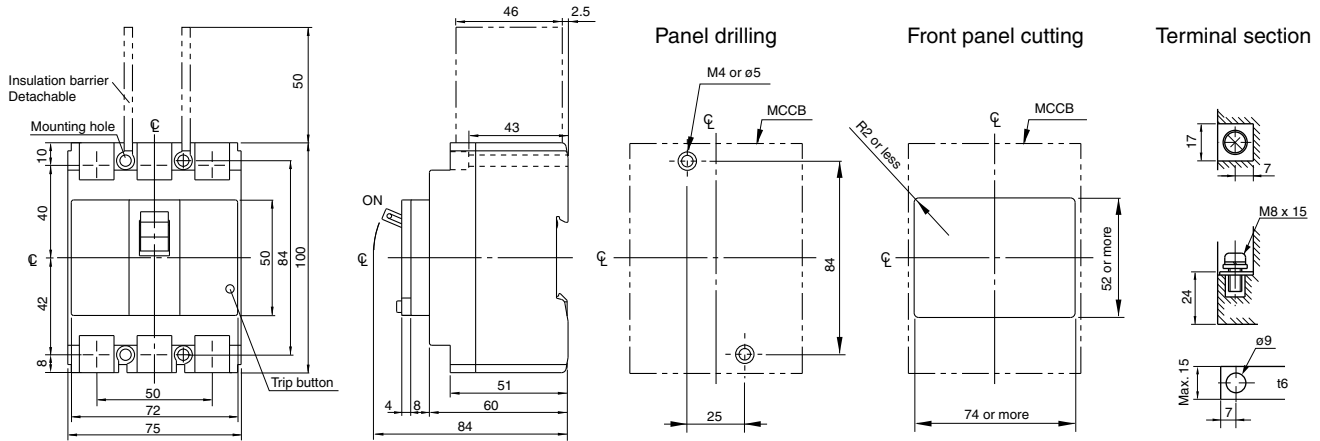
G-TWIN series

Dimensions / Standard

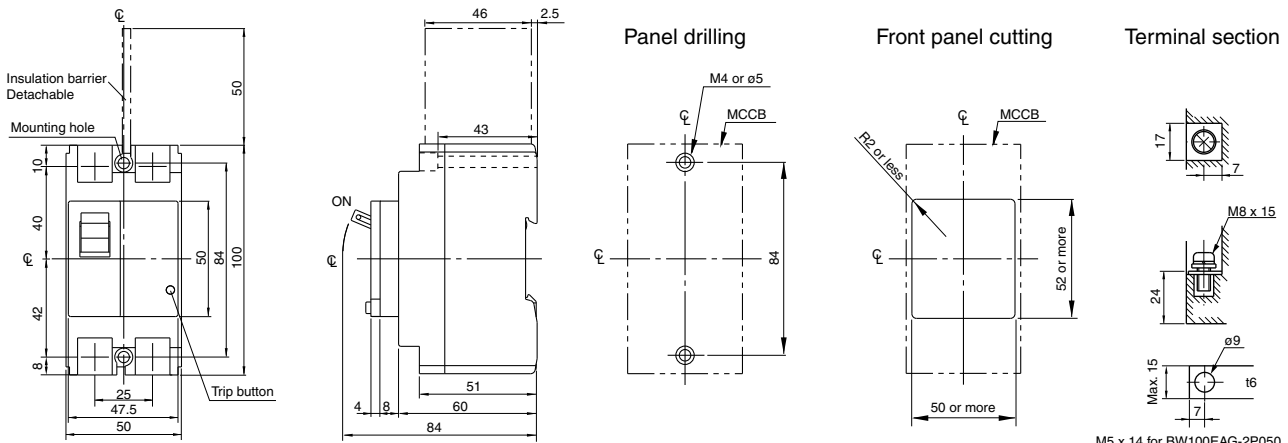
■ Dimensions, mm

● Front mounting, front connection

BW63□-3P

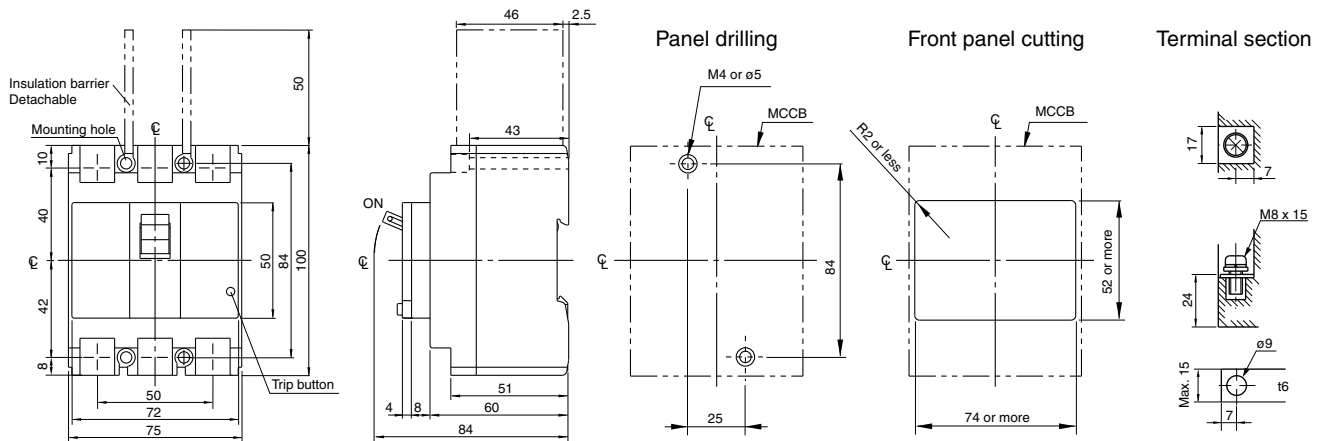


BW100□-2P



M5 x 14 for BW100EAG-2P050

BW100□-3P



Insulation barriers
Standard provided: BW100EAG
Optional: BW100AAG

M5 x 14 for BW100EAG-3P050

Molded Case Circuit Breakers

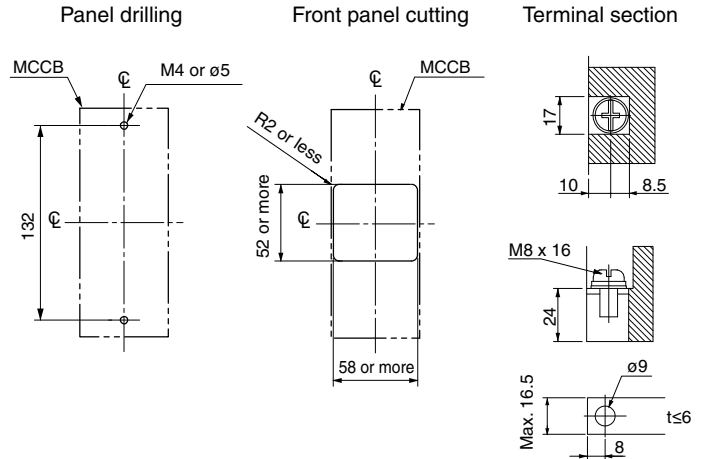
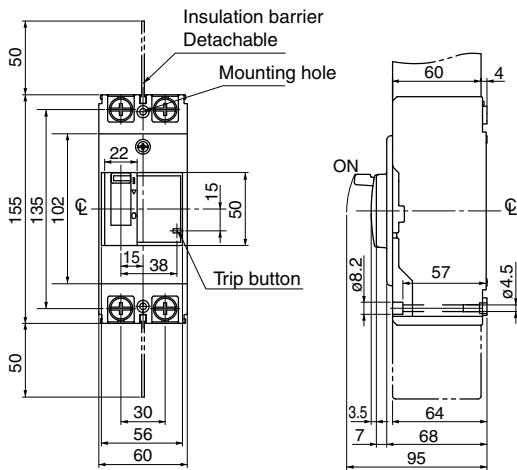
G-TWIN series

Dimensions / Standard

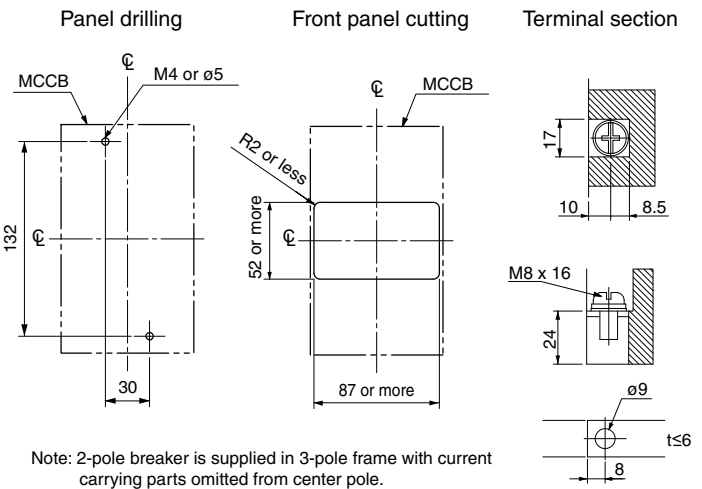
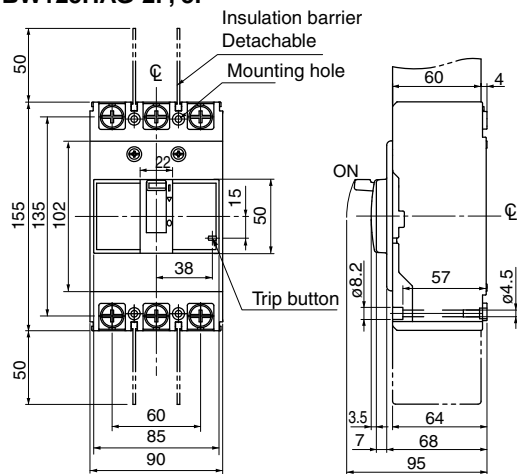
■ Dimensions, mm

● Front mounting, front connection

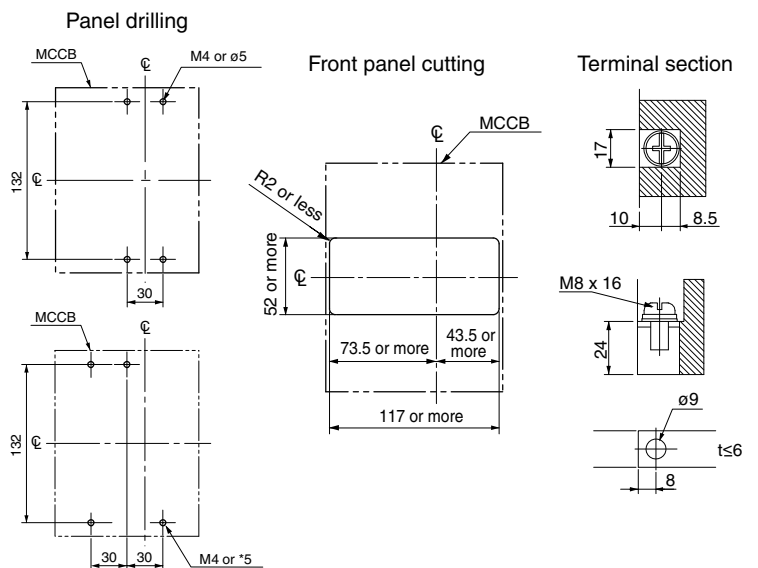
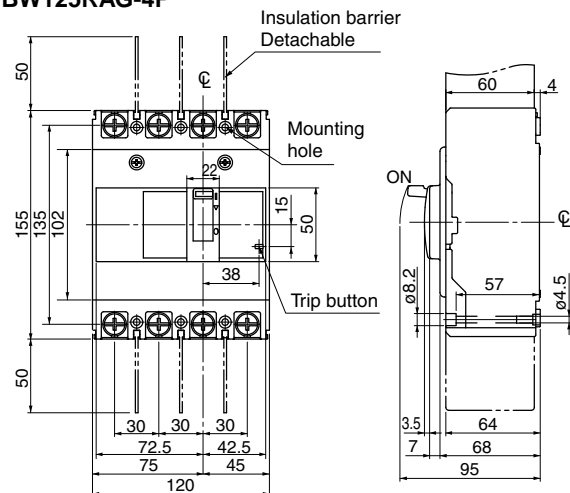
BW125JAG-2P



**BW50HAG-2P, 3P, BW125JAG-3P,
BW125SAG-2P, 3P, BW125RAG-2P, 3P
BW125HAG-2P, 3P**



**BW125JAG-4P
BW125SAG-4P
BW125RAG-4P**



Molded Case Circuit Breakers

G-TWIN series

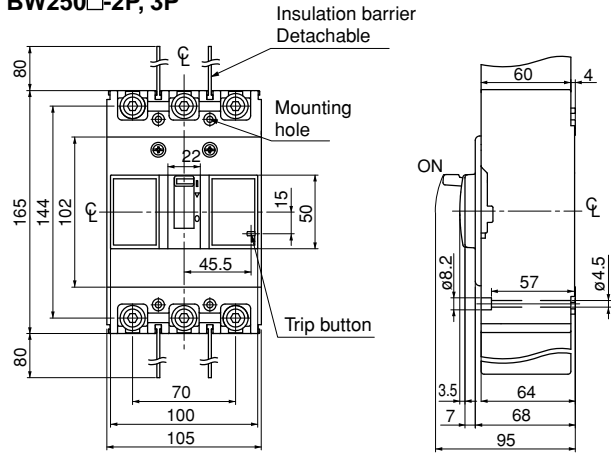
Dimensions / Standard

■ Dimensions, mm

● Front mounting, front connection

BW160□-2P, 3P

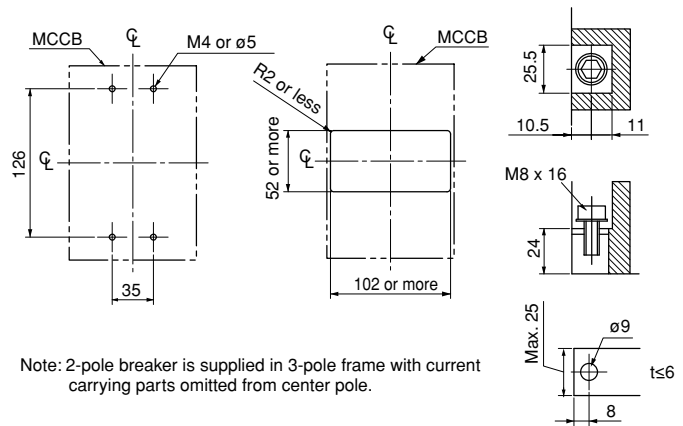
BW250□-2P, 3P



Panel drilling

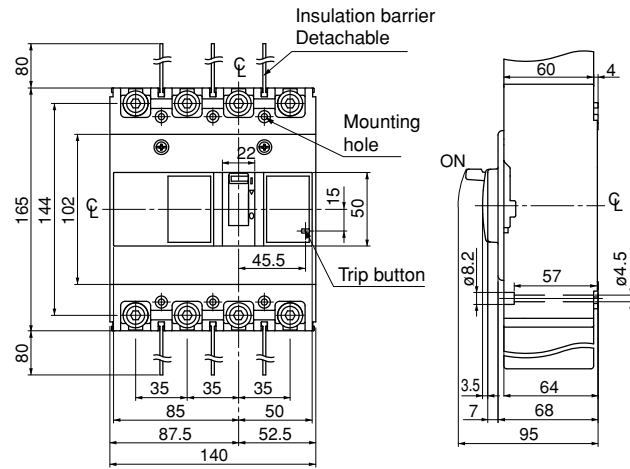
Front panel cutting

Terminal section



BW160□-4P

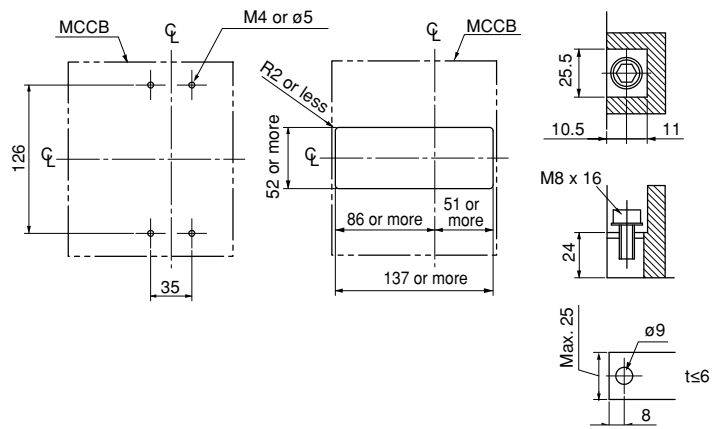
BW250□-4P



Panel drilling

Front panel cutting

Terminal section



Molded Case Circuit Breakers

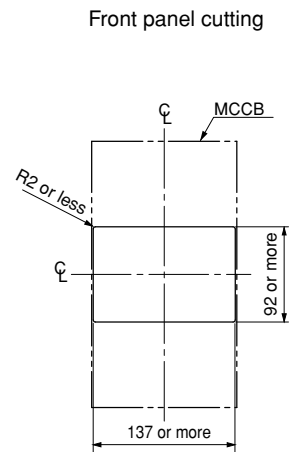
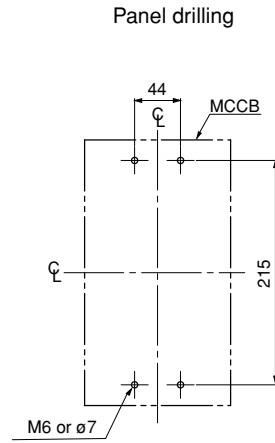
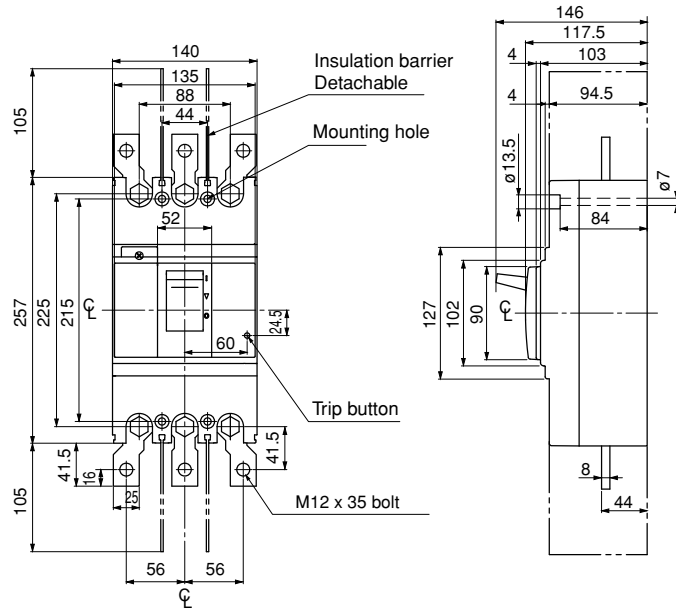
G-TWIN series

Dimensions / Standard

■ Dimensions, mm

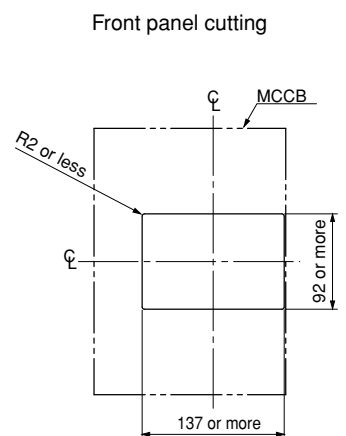
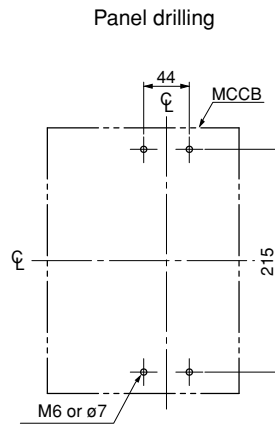
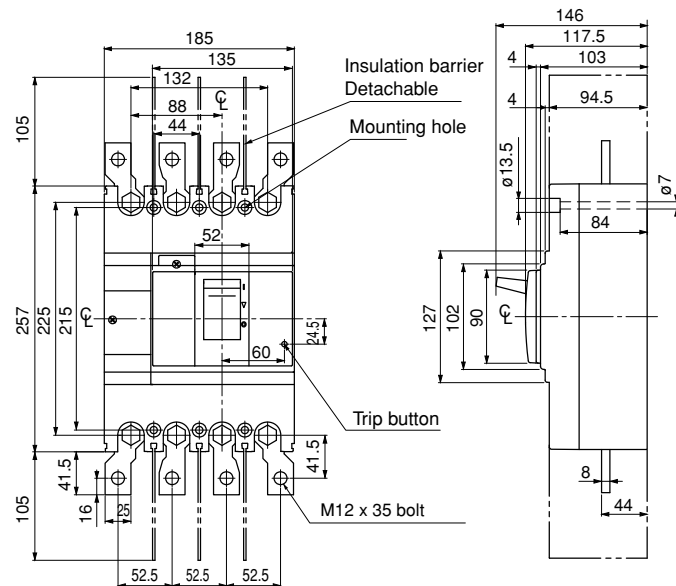
● Front mounting, front connection

BW400□-2P, 3P



Note: 2-pole breaker is supplied in 3-pole frame with current carrying parts omitted from center pole.

BW400□-4P



Molded Case Circuit Breakers

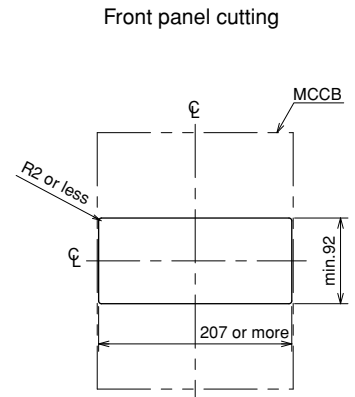
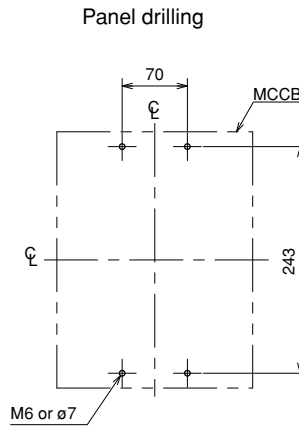
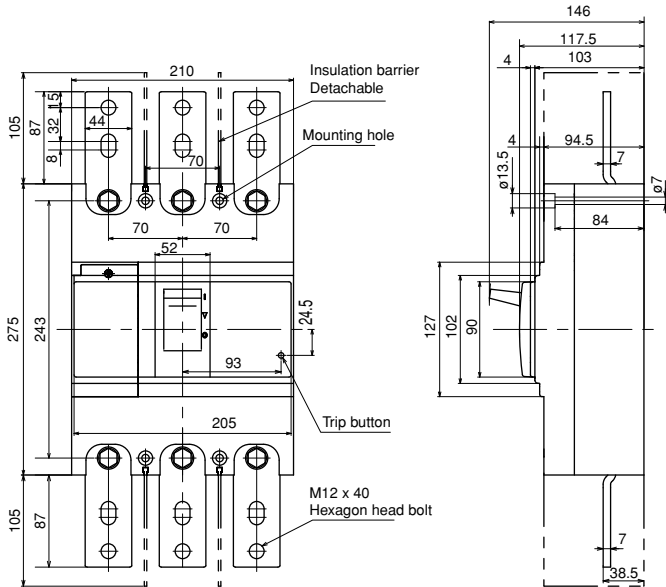
G-TWIN series

Dimensions / Standard

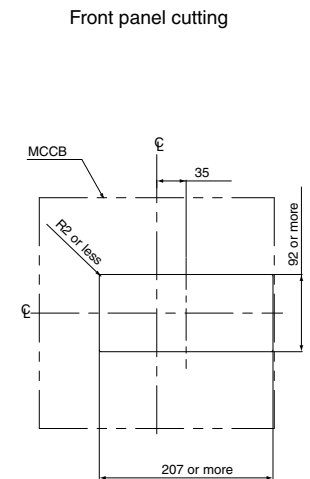
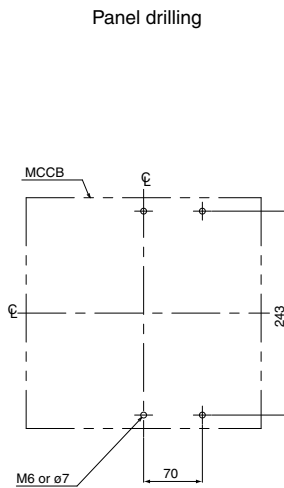
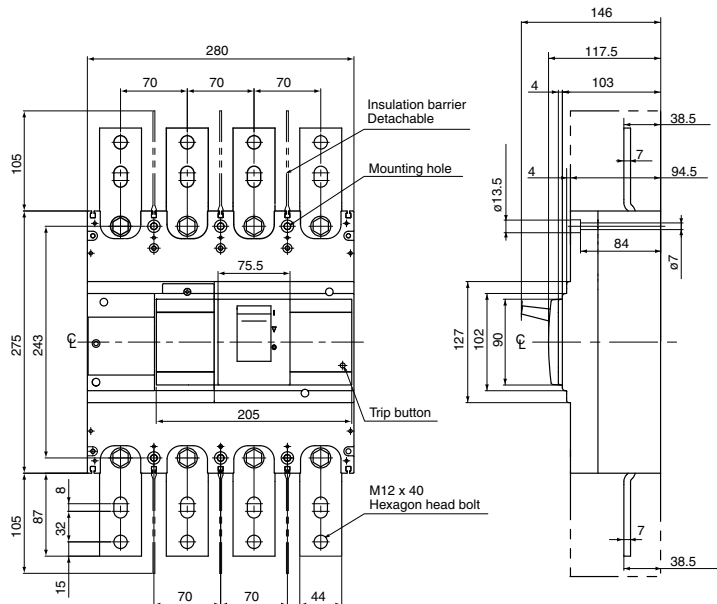
■ Dimensions, mm

● Front mounting, front connection

BW630□-3P



BW630□-4P

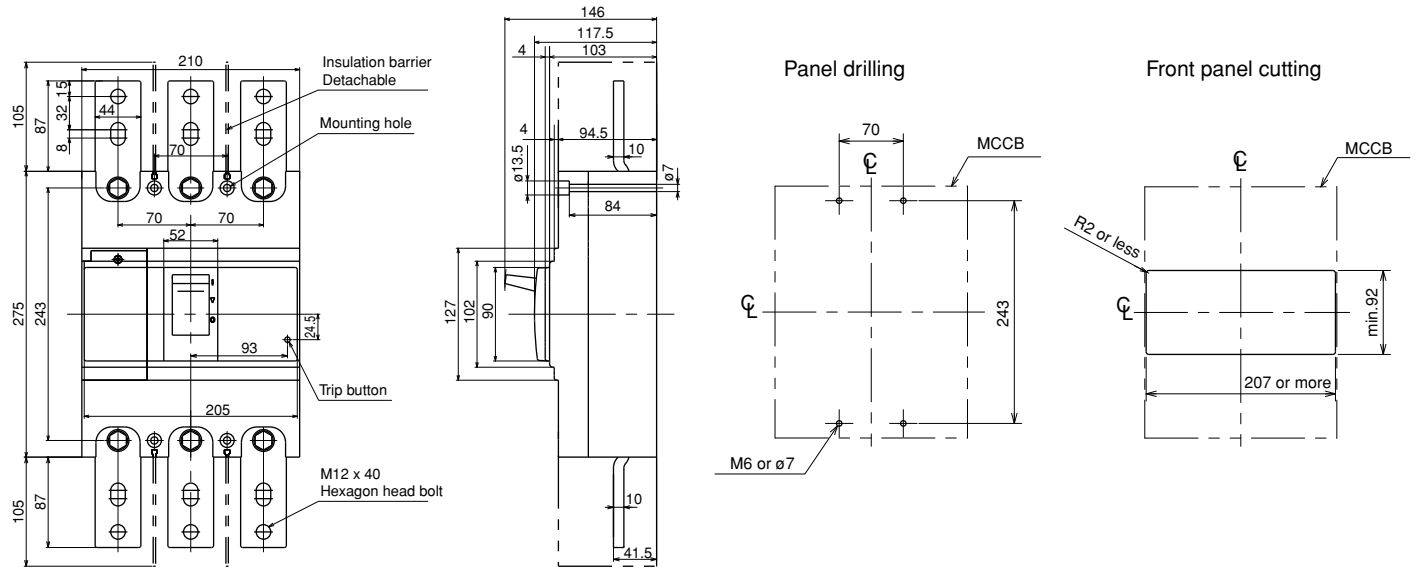


Molded Case Circuit Breakers
G-TWIN series
 Dimensions / Standard

■ Dimensions, mm

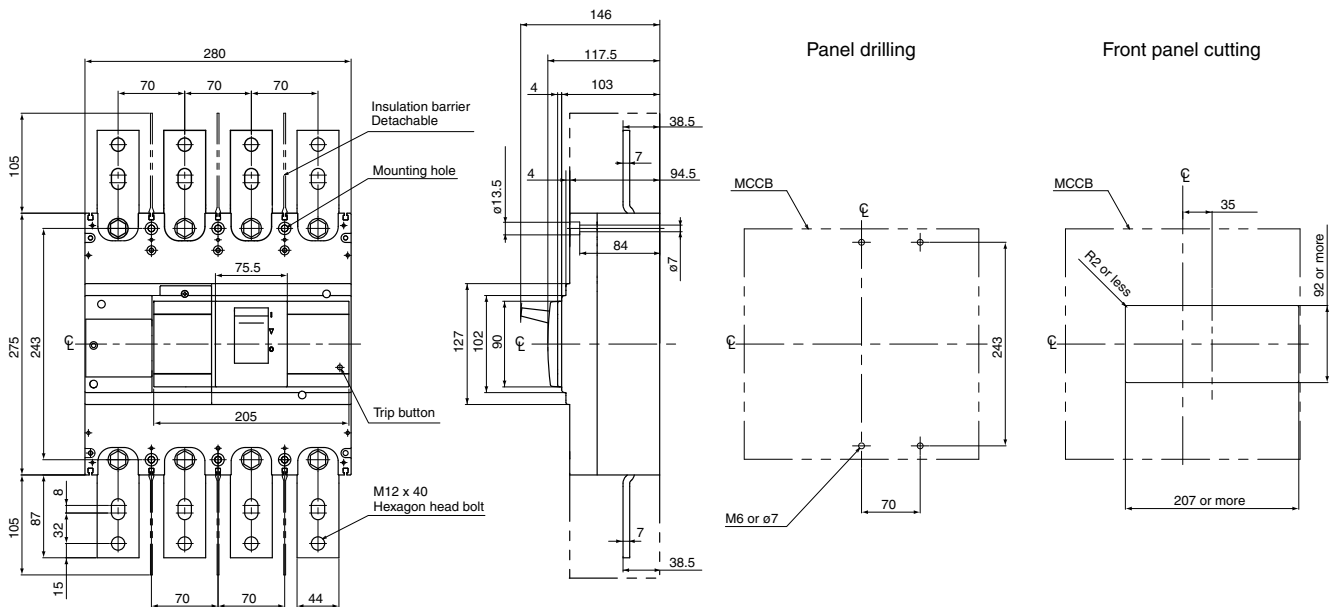
● Front mounting, front connection

BW800□-3P



06

BW800□-4P



Molded Case Circuit Breakers

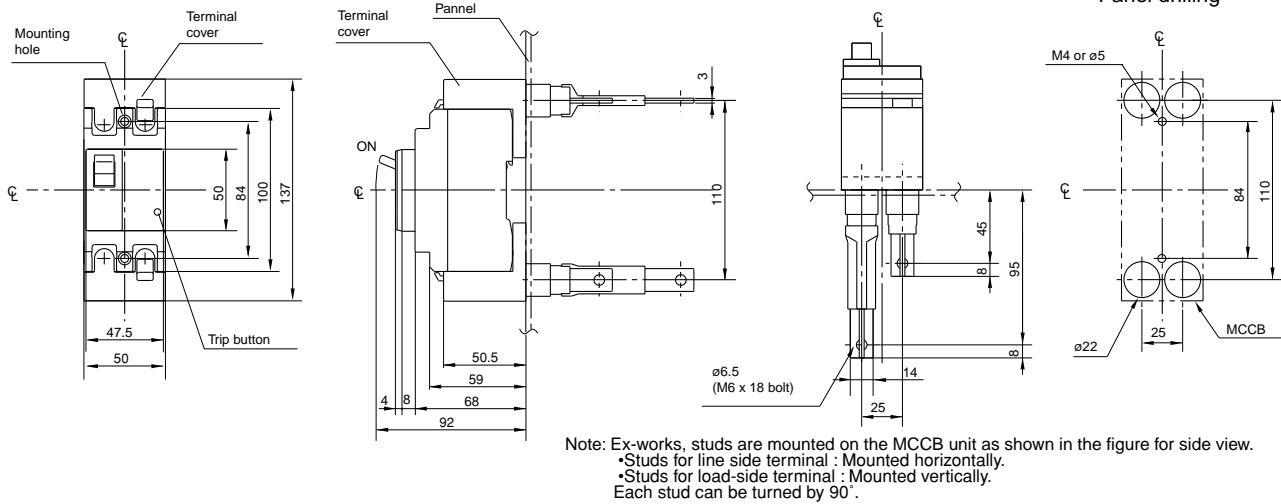
G-TWIN series

Dimensions / Standard

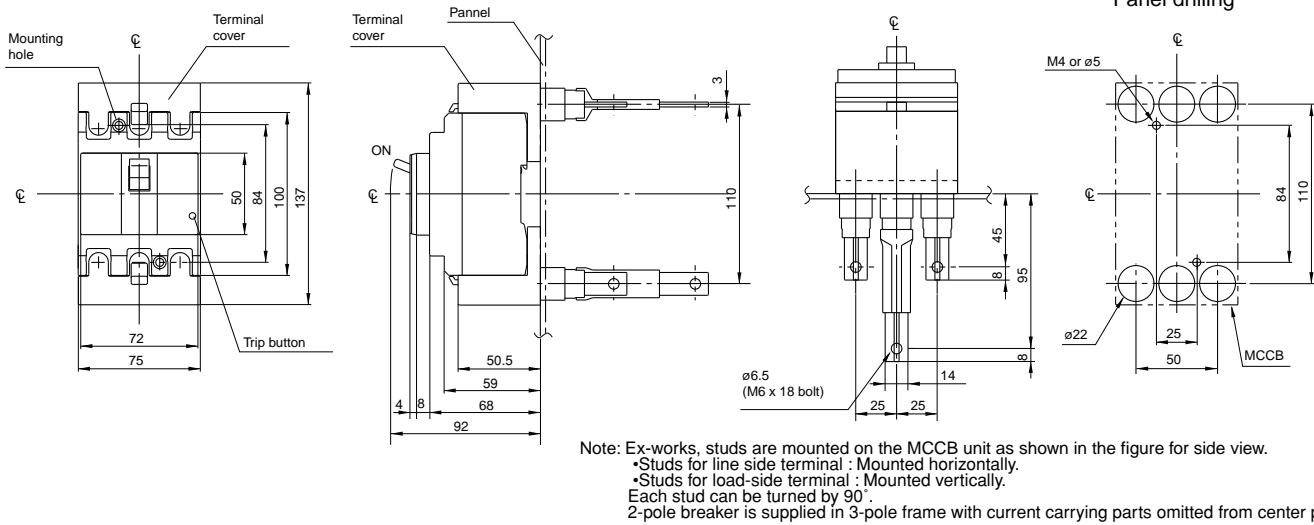
■ Dimensions, mm

● Front mounting, rear connection (type X)

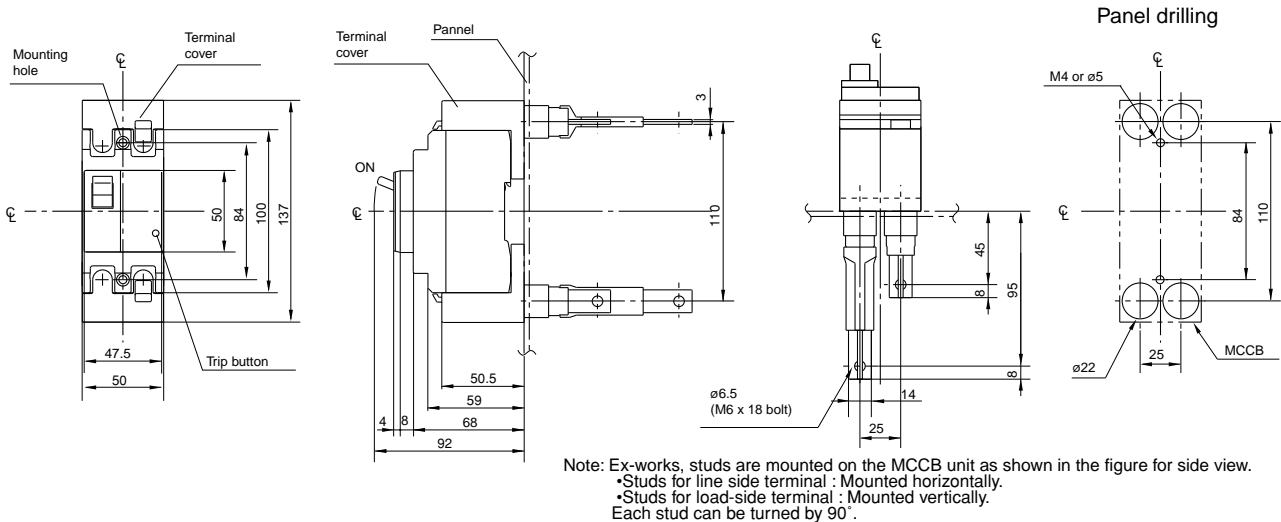
BW32□-2P, BW50□-2P



BW32□-3P, BW50□-3P



BW63□-2P



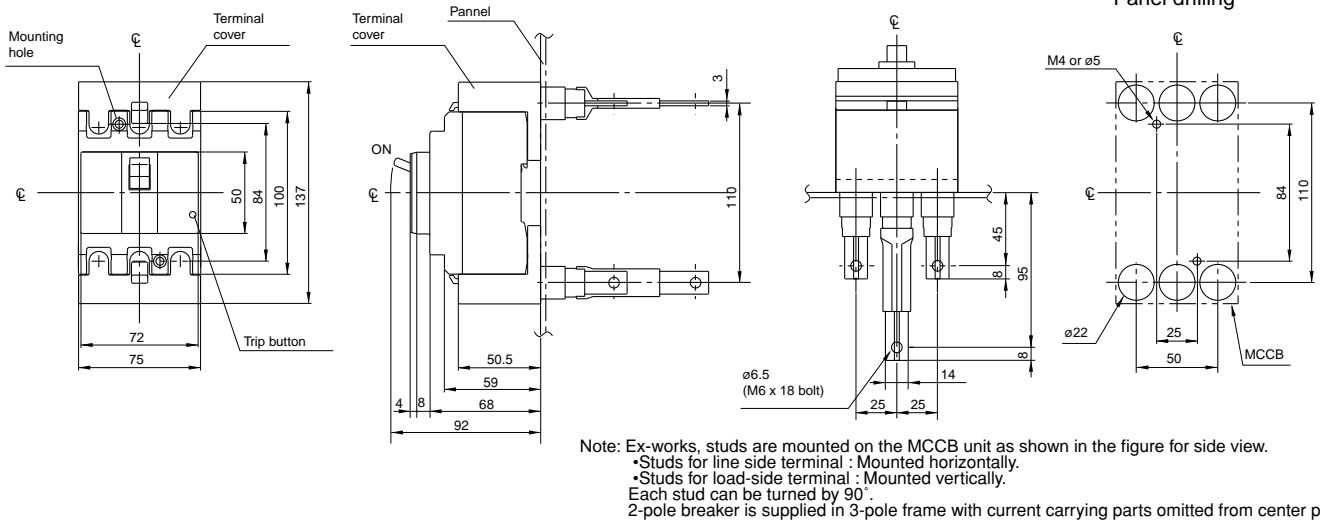
Molded Case Circuit Breakers

G-TWIN series

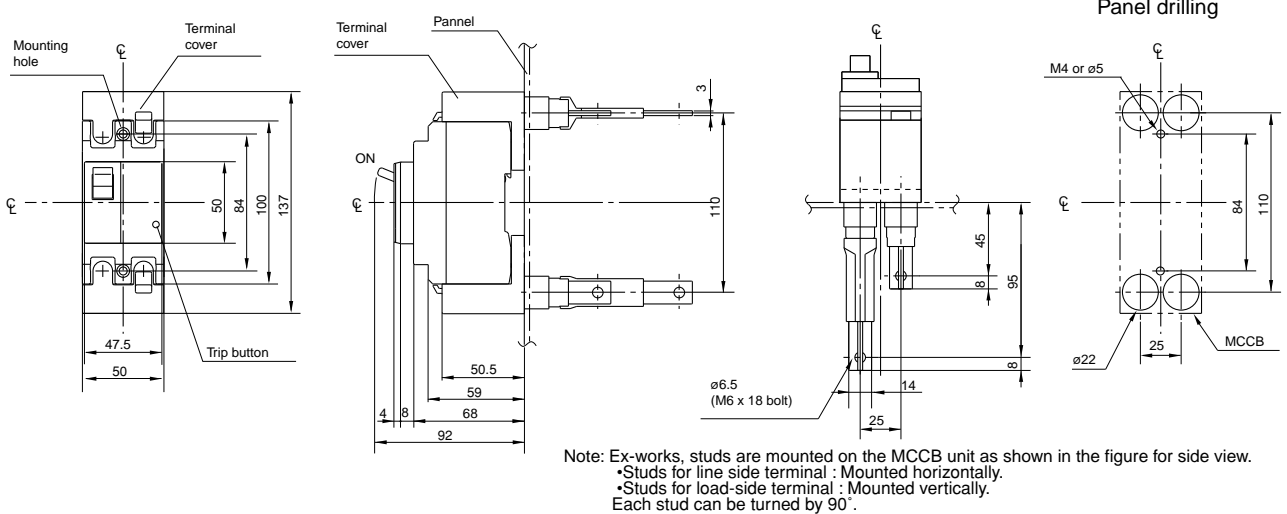
Dimensions / Standard

- Dimensions, mm
- Front mounting, rear connection (type X)

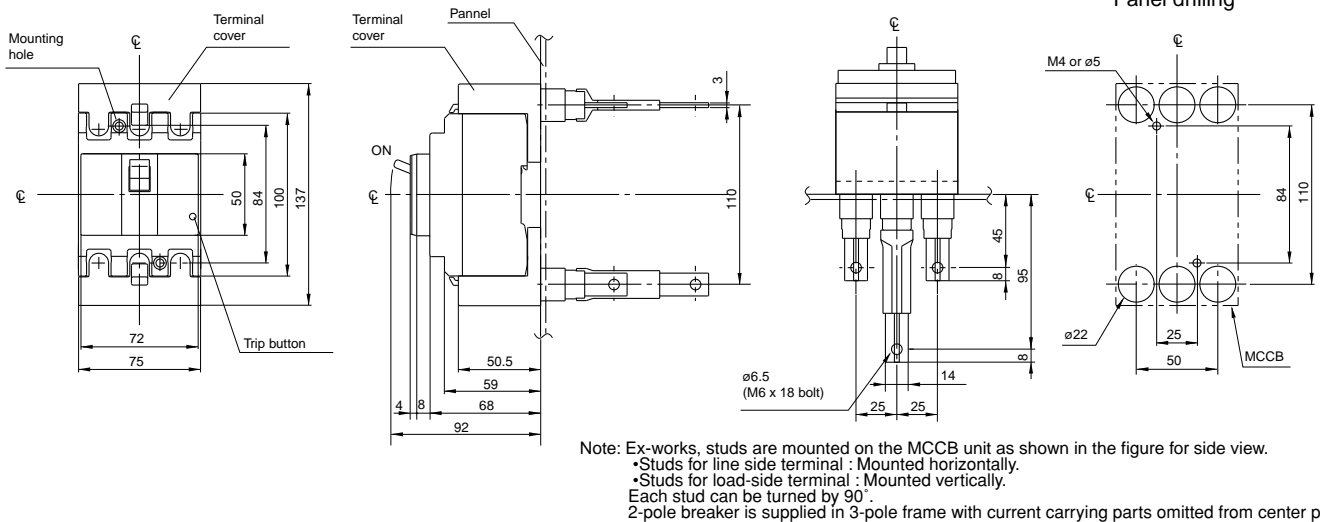
BW63□-3P



BW100□-2P



BW100□-3P



Molded Case Circuit Breakers

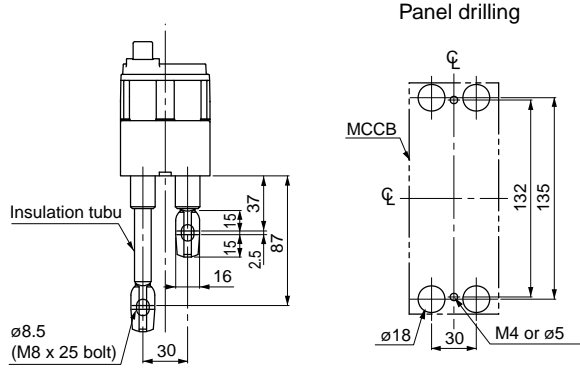
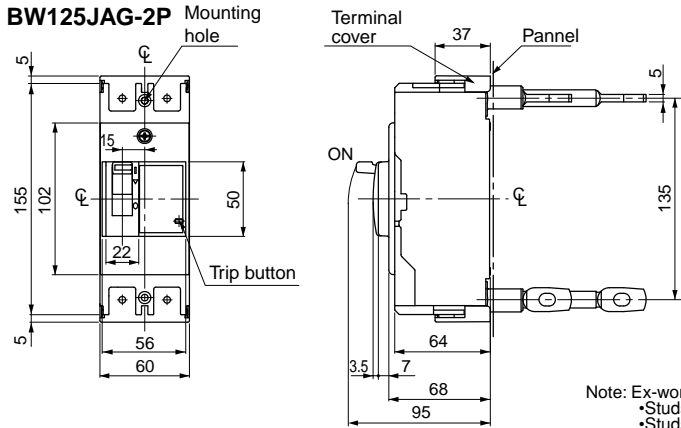
G-TWIN series

Dimensions / Standard

■ Dimensions, mm

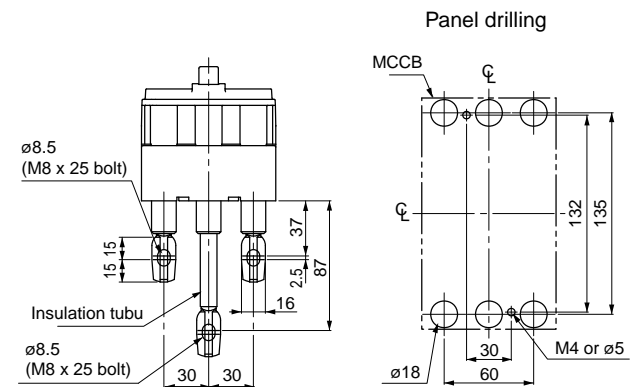
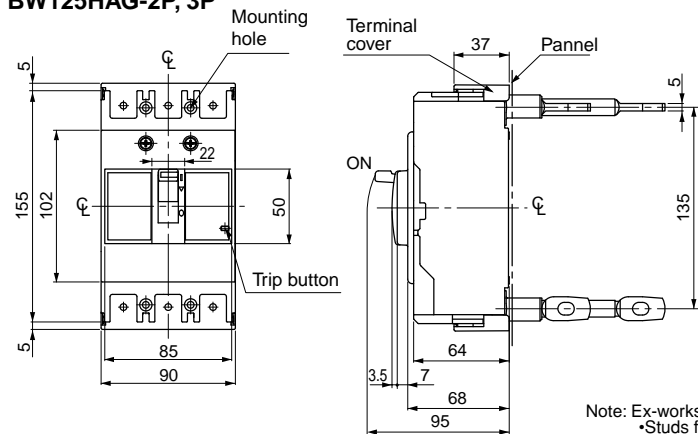
● Front mounting, rear connection (type X)

BW125JAG-2P



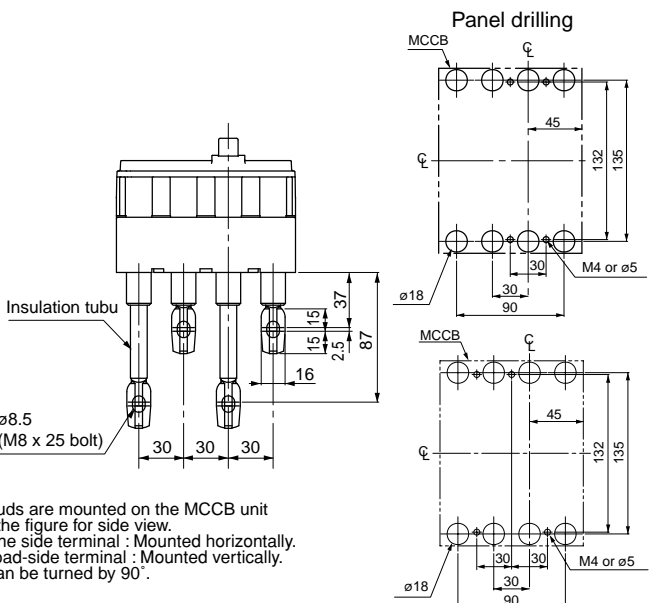
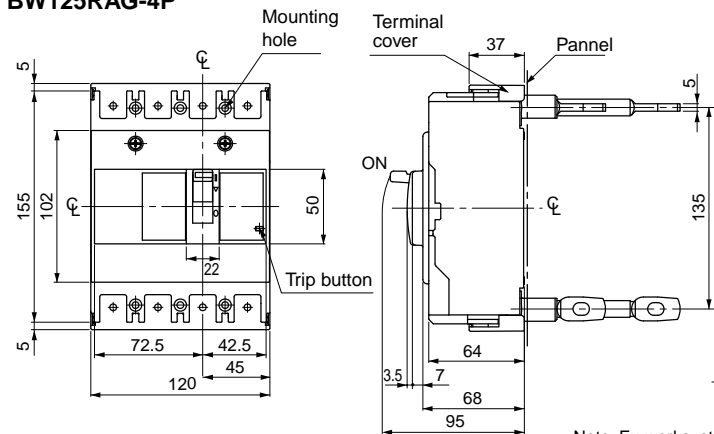
Note: Ex-works, studs are mounted on the MCCB unit as shown in the figure for side view.
 •Studs for line side terminal : Mounted horizontally.
 •Studs for load-side terminal : Mounted vertically.
 Each stud can be turned by 90°.

BW50HAG-2P, 3P, BW125JAG-3P BW125SAG-2P, 3P, BW125RAG-2P, 3P BW125HAG-2P, 3P



Note: Ex-works, studs are mounted on the MCCB unit as shown in the figure for side view.
 •Studs for line side terminal : Mounted horizontally.
 •Studs for load-side terminal : Mounted vertically.
 Each stud can be turned by 90°.
 2-pole breaker is supplied in 3-pole frame with current carrying parts omitted from center pole.

BW125JAG-4P BW125SAG-4P BW125RAG-4P



Note: Ex-works, studs are mounted on the MCCB unit as shown in the figure for side view.
 •Studs for line side terminal : Mounted horizontally.
 •Studs for load-side terminal : Mounted vertically.
 Each stud can be turned by 90°.

For V, N-type handle

Molded Case Circuit Breakers

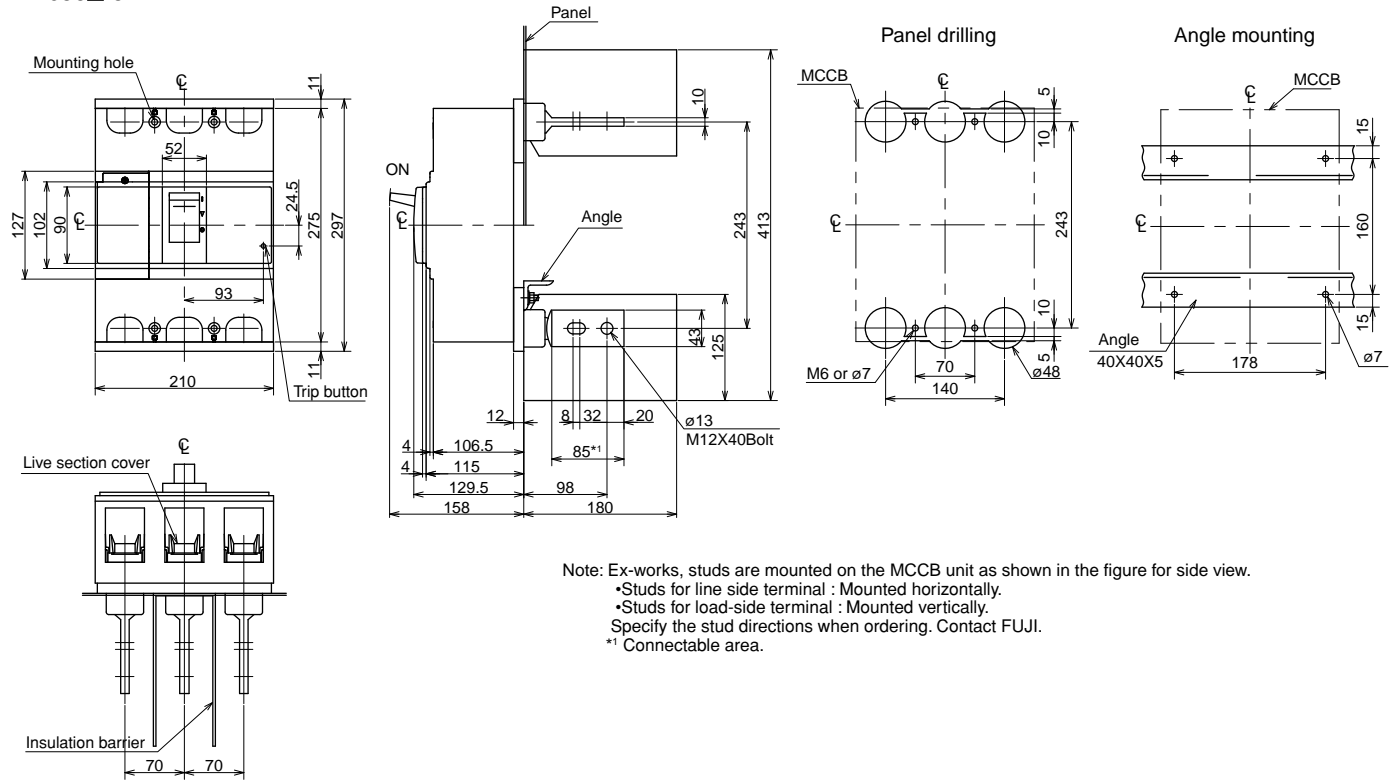
G-TWIN series

Dimensions / Standard

■ Dimensions, mm

● Front mounting, rear connection (type X)

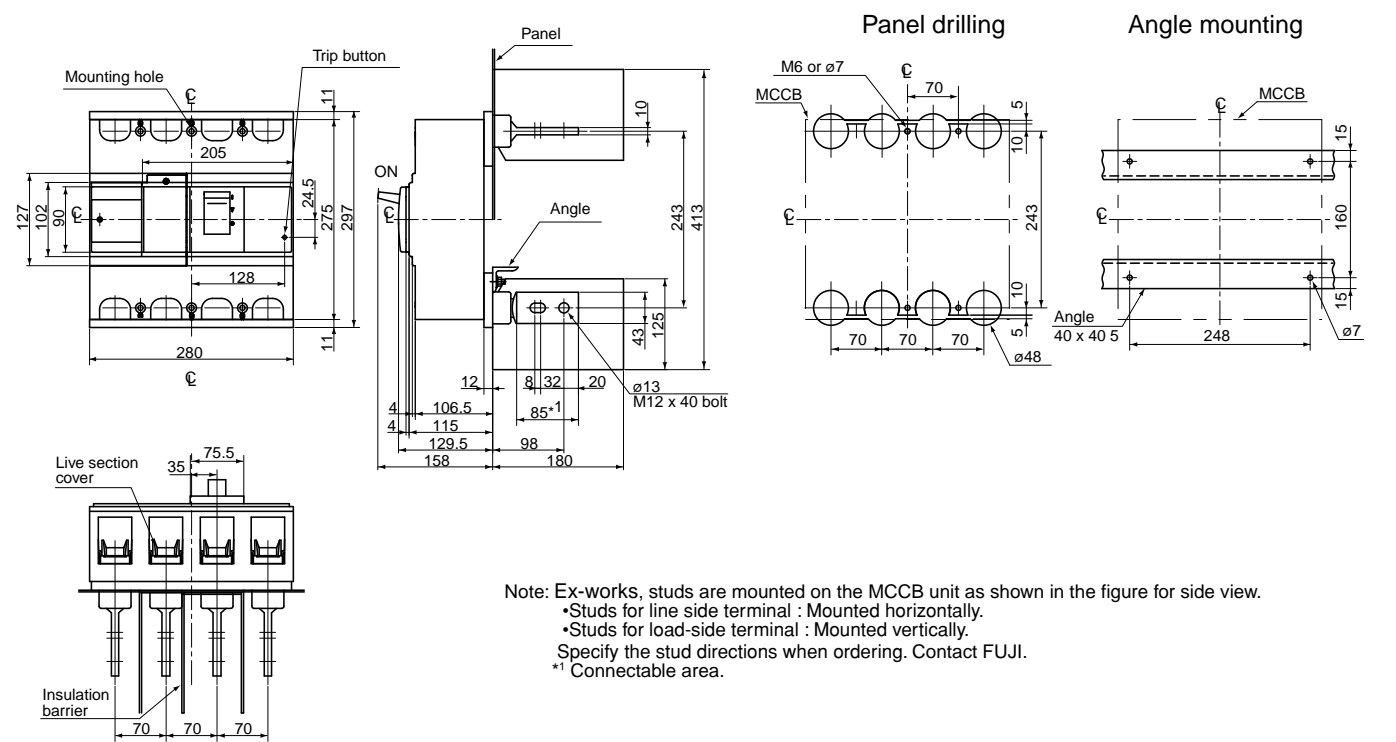
BW630□-3P



Note: Ex-works, studs are mounted on the MCCB unit as shown in the figure for side view.
 •Studs for line side terminal : Mounted horizontally.
 •Studs for load-side terminal : Mounted vertically.
 Specify the stud directions when ordering. Contact FUJI.
 *1 Connectable area.

06

BW630□-4P



Note: Ex-works, studs are mounted on the MCCB unit as shown in the figure for side view.
 •Studs for line side terminal : Mounted horizontally.
 •Studs for load-side terminal : Mounted vertically.
 Specify the stud directions when ordering. Contact FUJI.
 *1 Connectable area.

Molded Case Circuit Breakers

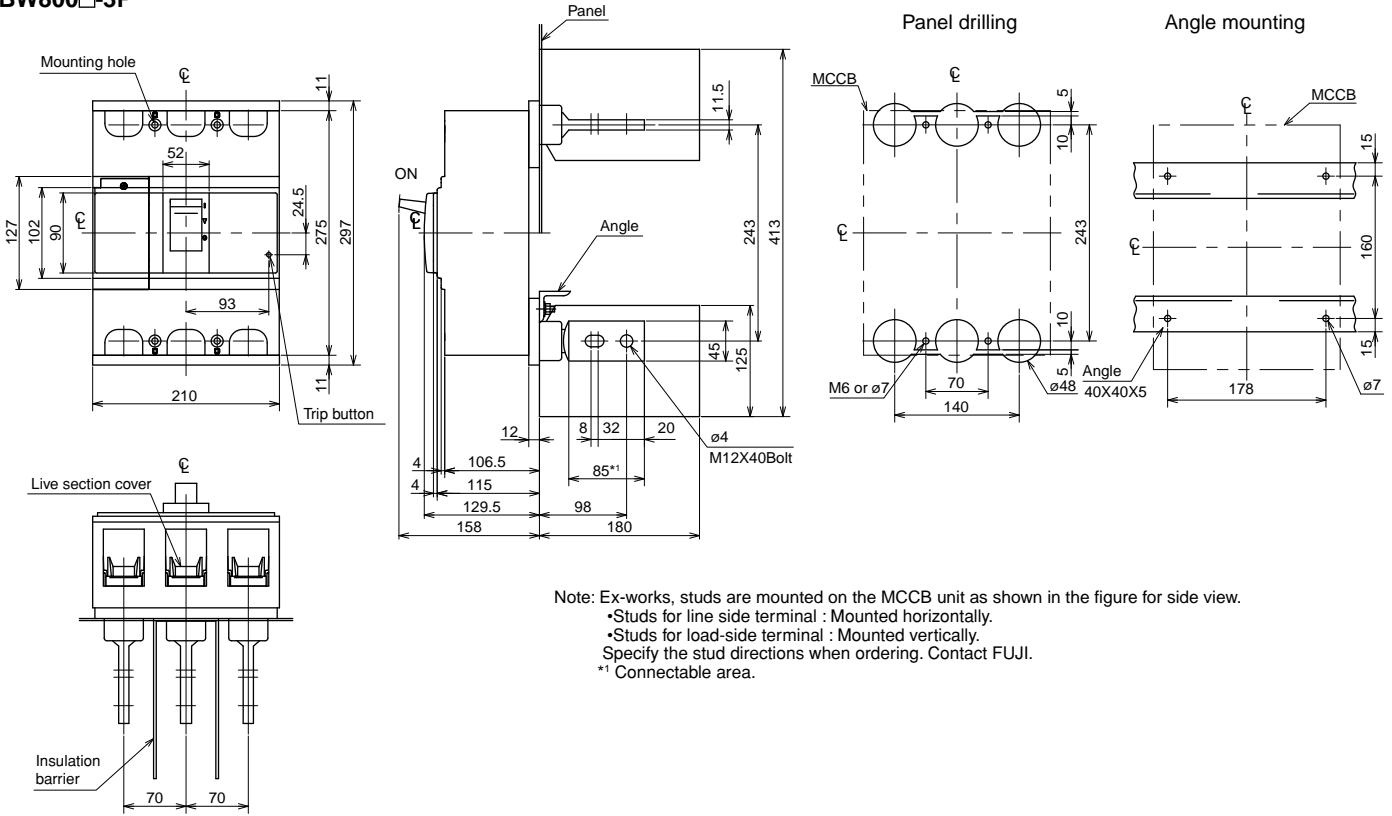
G-TWIN series

Dimensions / Standard

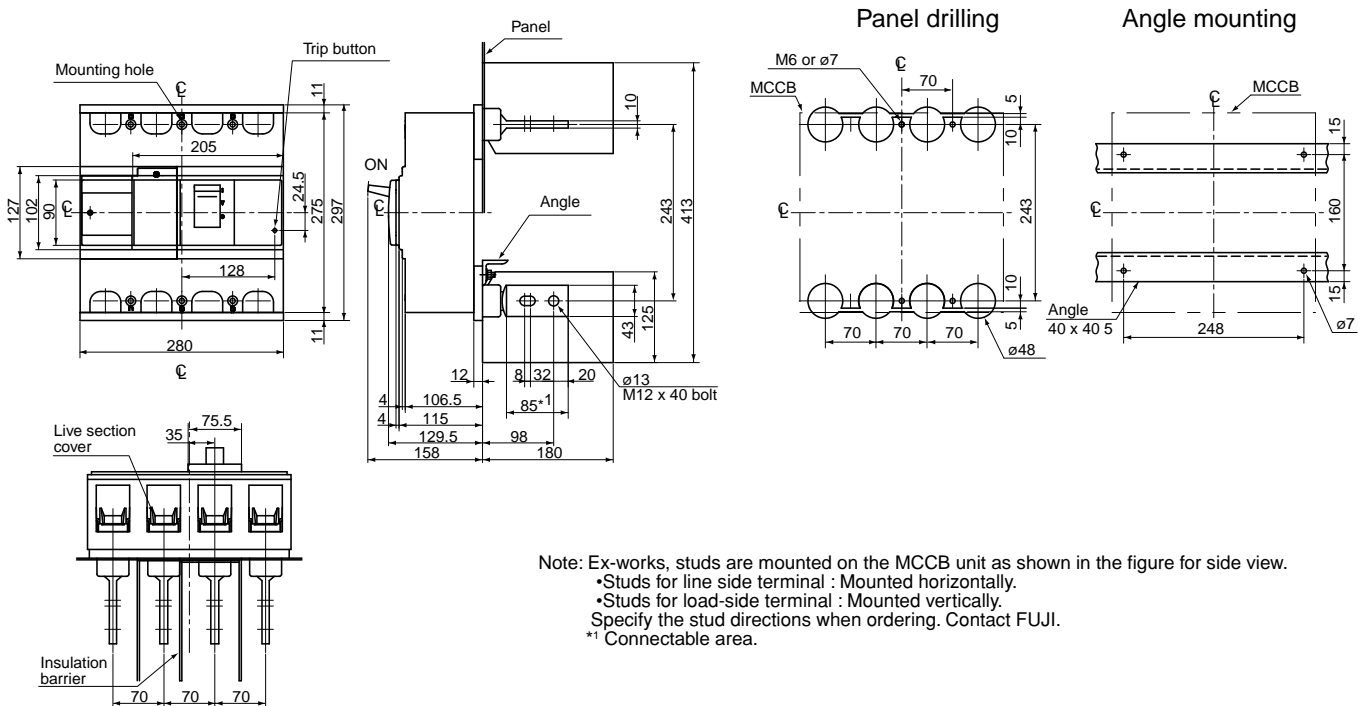
■ Dimensions, mm

● Front mounting, rear connection (type X)

BW800□-3P



BW800□-4P



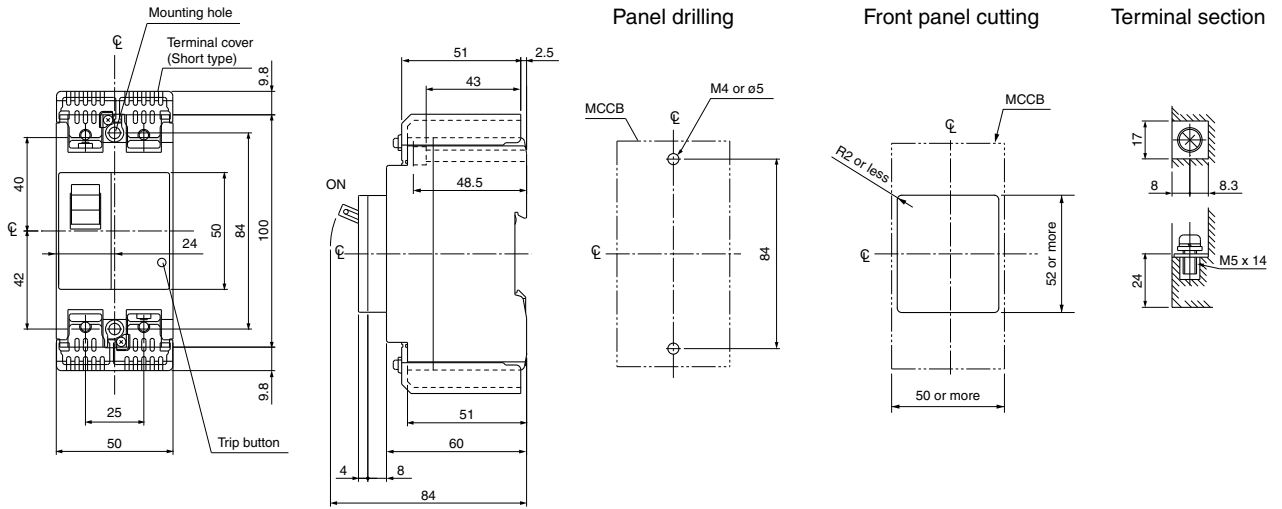
Molded Case Circuit Breakers

G-TWIN series

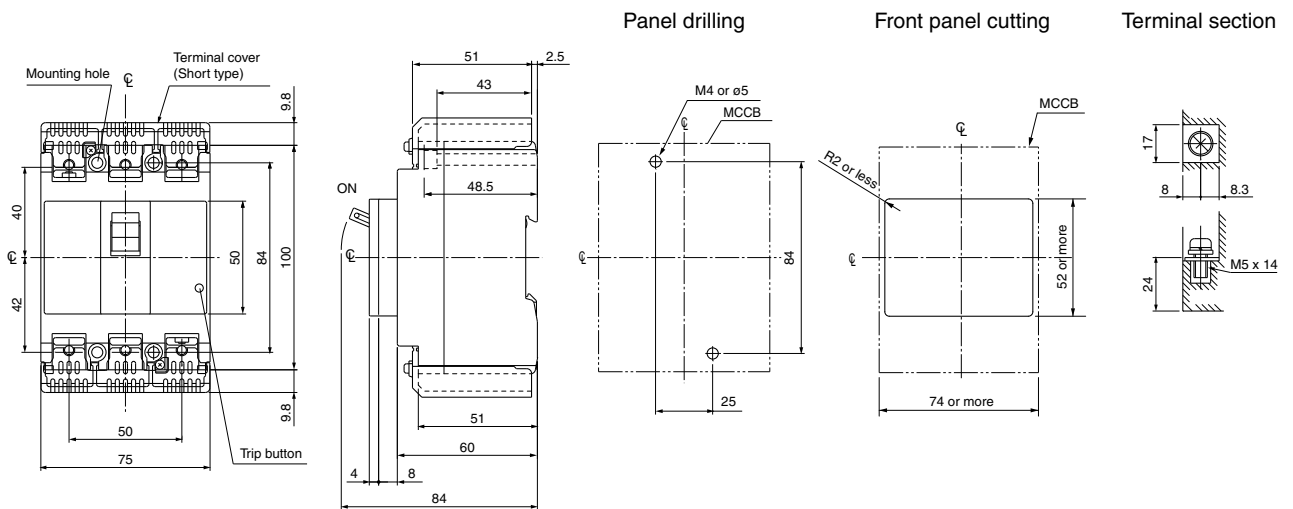
Dimensions / Global

- Dimensions, mm
- Front mounting, front connection

BW50RAGU-2P



BW50RAGU-3P



Molded Case Circuit Breakers

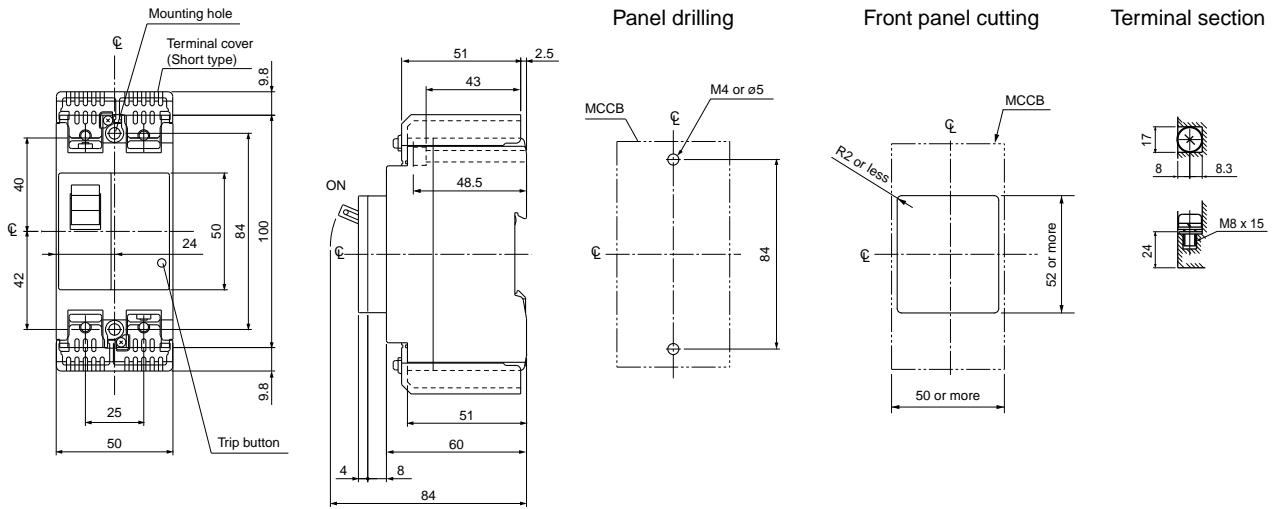
G-TWIN series

Dimensions / Global

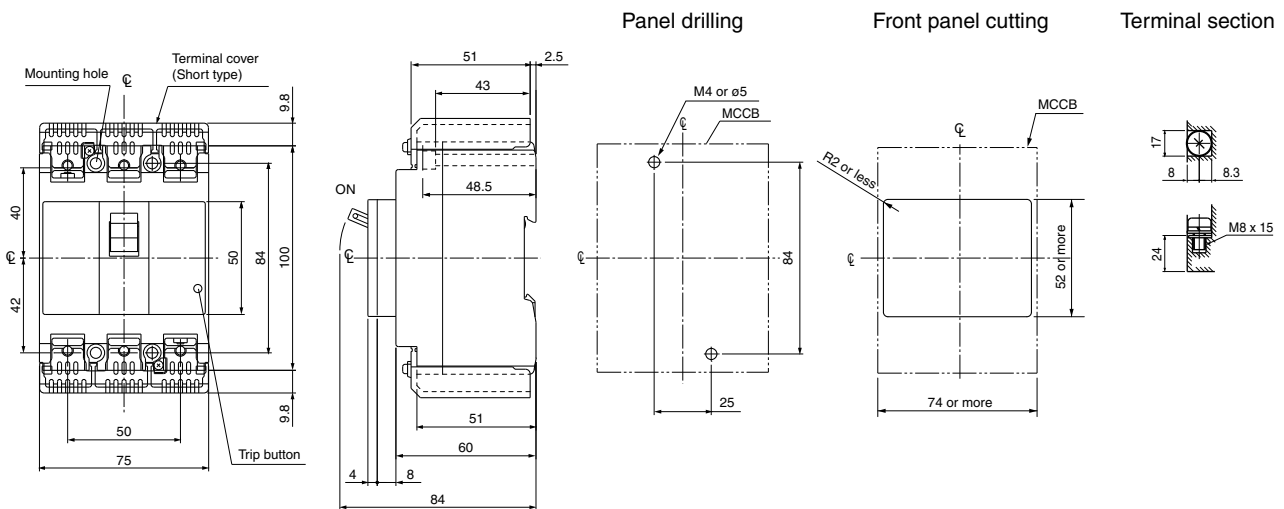
■ Dimensions, mm

- Front mounting, front connection

BW100EAGU-2P



BW100EAGU-3P



Molded Case Circuit Breakers

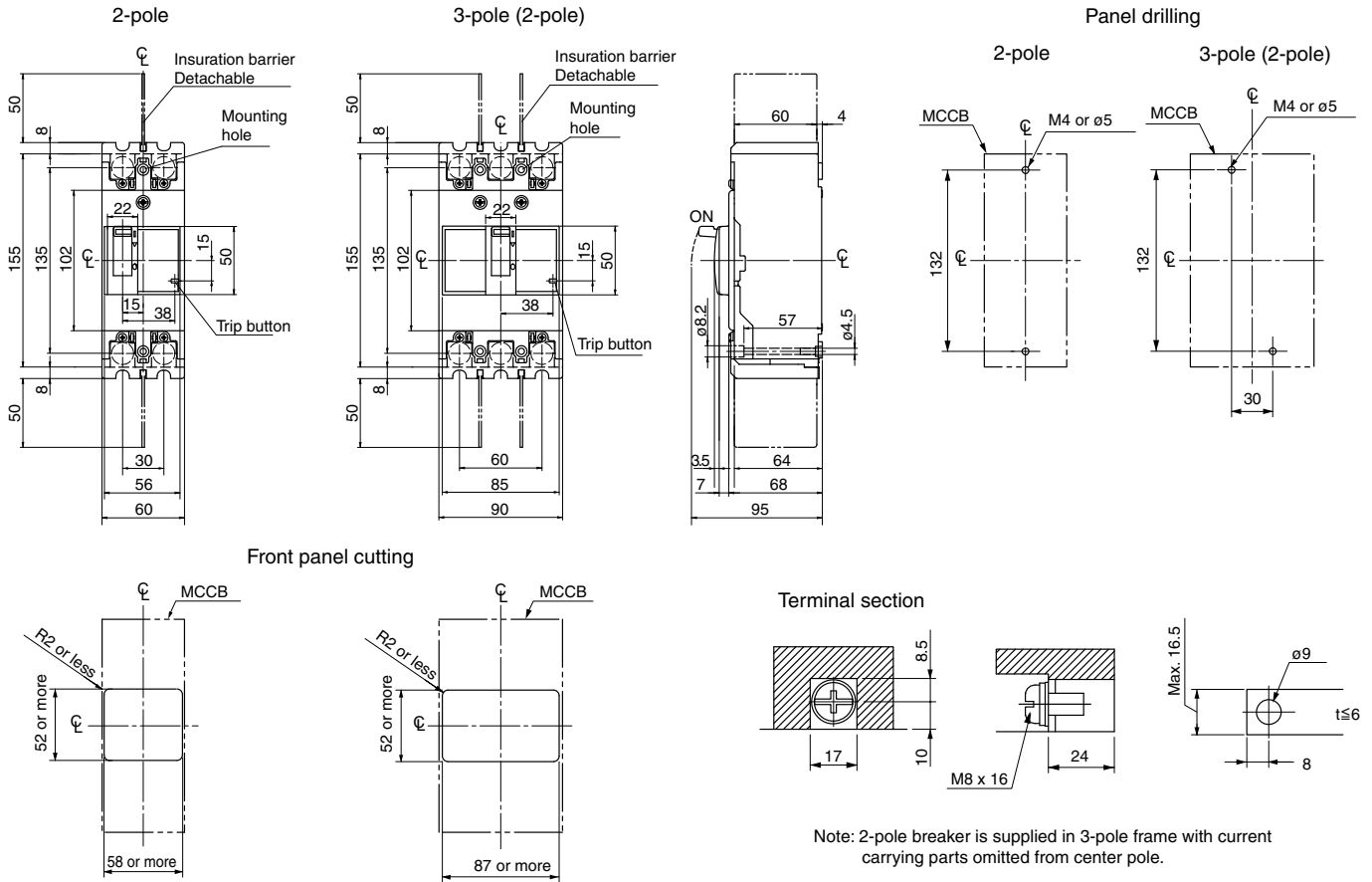
G-TWIN series

Dimensions / Global

■ Dimensions, mm

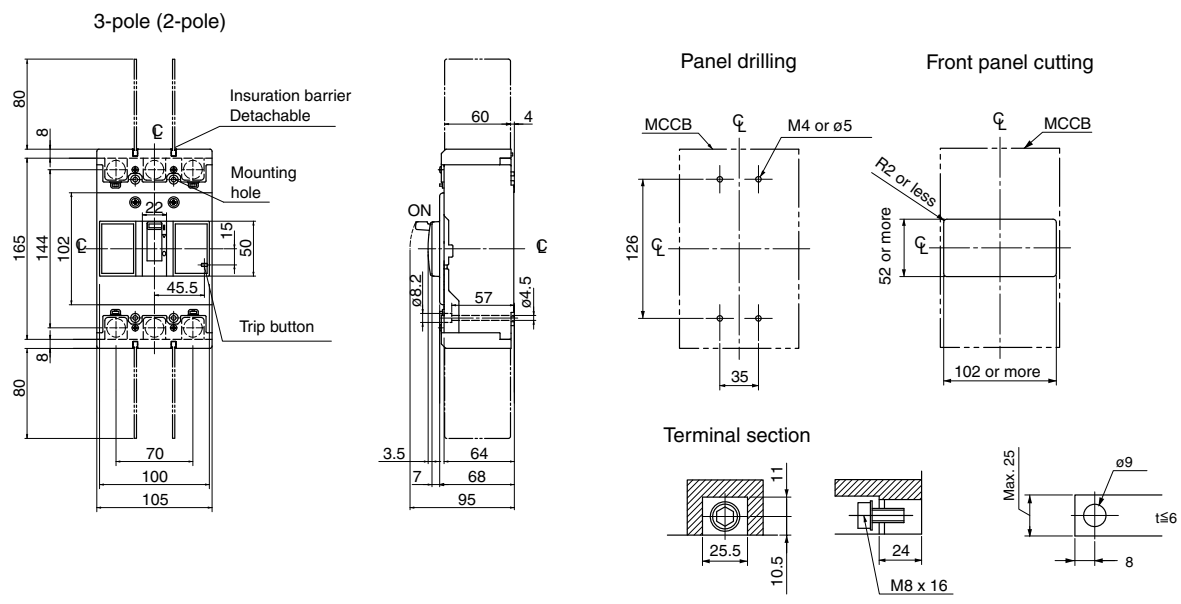
● Front mounting, front connection

BW125□U-2P, 3P



06

BW250□U-2P, 3P



Molded Case Circuit Breakers

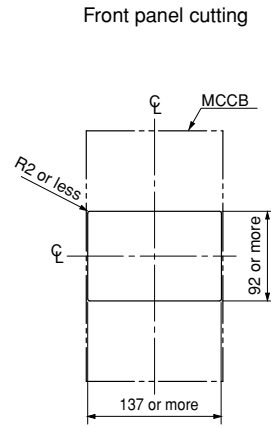
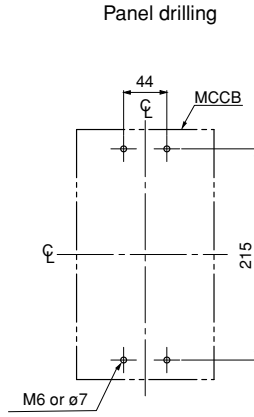
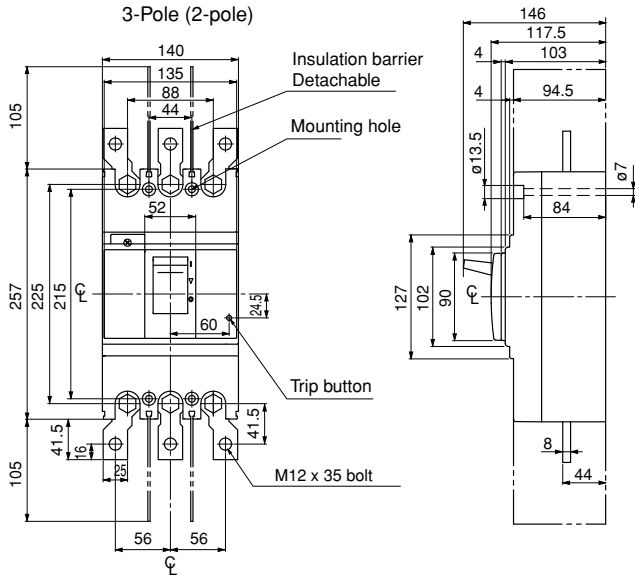
G-TWIN series

Dimensions / Global

■ Dimensions, mm

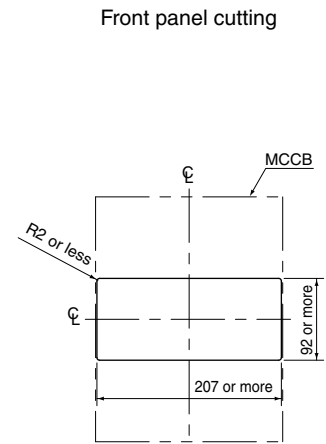
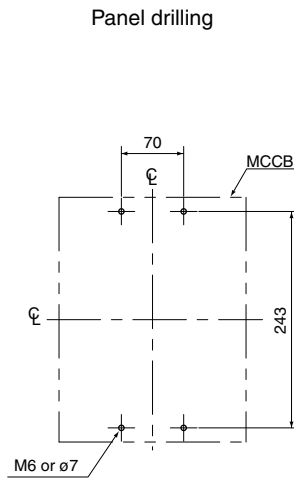
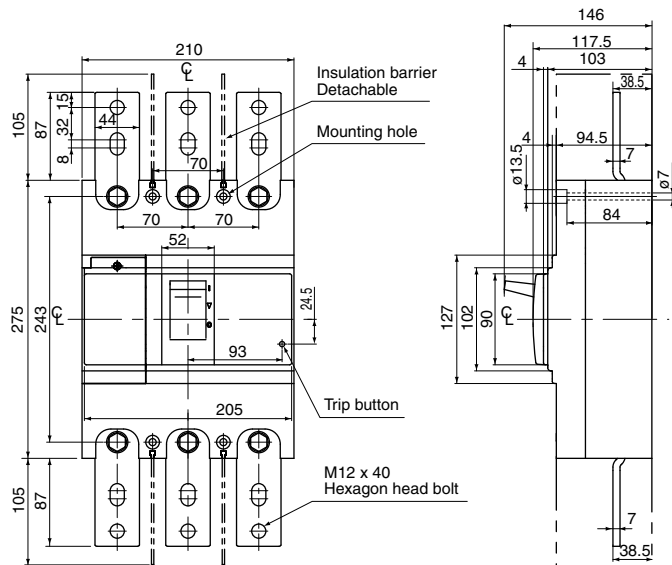
● Front mounting, front connection

BW400□U-2P, 3P



Note: 2-pole breaker is supplied in 3-pole frame with current carrying parts omitted from center pole.

BW630□U-3P

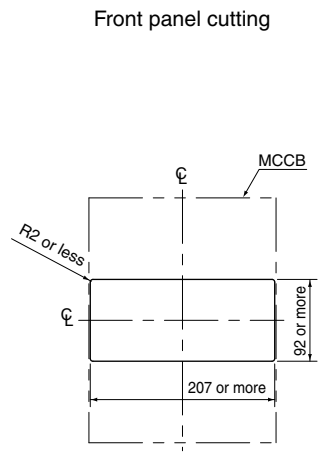
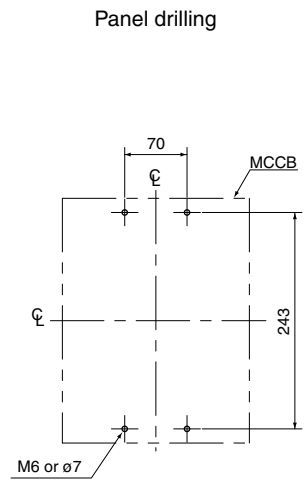
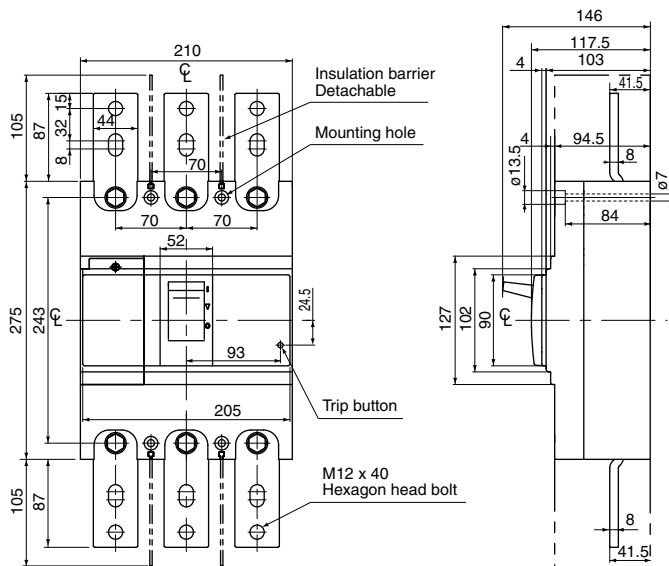


Molded Case Circuit Breakers
G-TWIN series
Dimensions / Global

■ **Dimensions, mm**

● **Front mounting, front connection**

BW800□U-3P



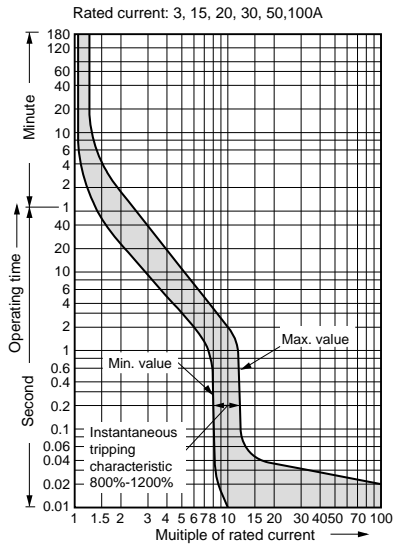
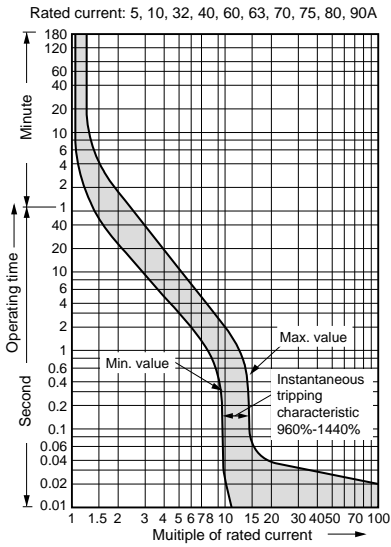
Molded Case Circuit Breakers

G-TWIN series

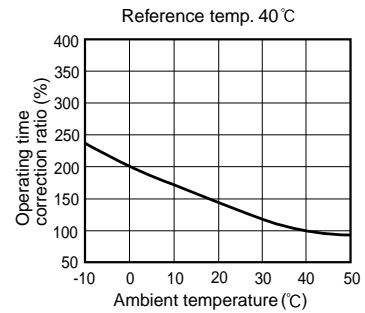
Characteristic curves

■ Characteristic curves / Line protection

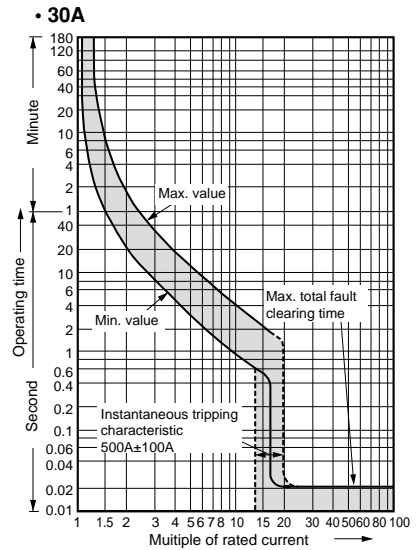
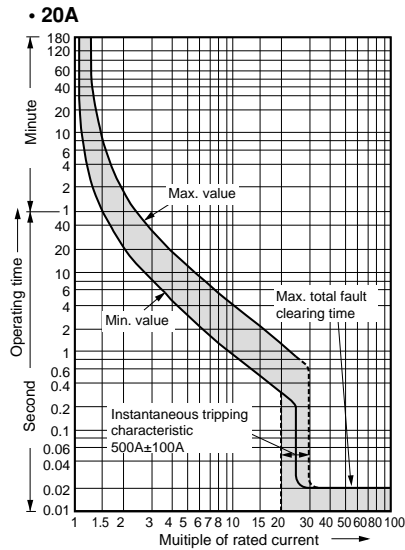
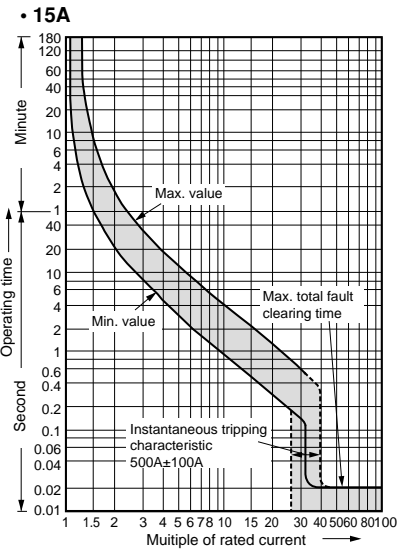
BW32, 50, 63, 100



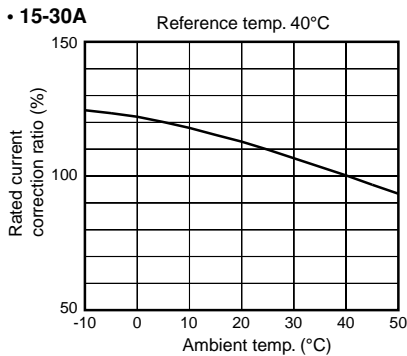
Temperature correction curve



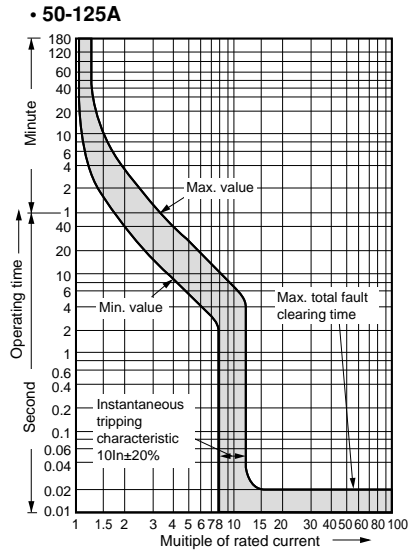
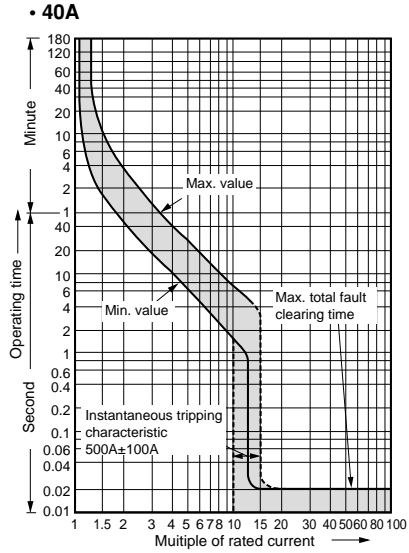
BW50HAG, BW125



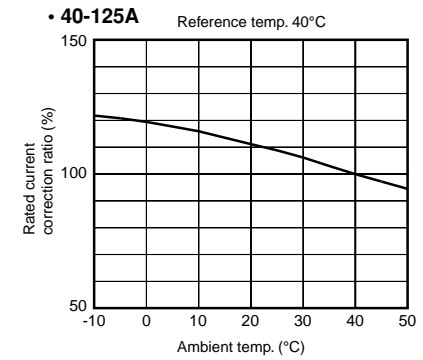
Temperature correction curve



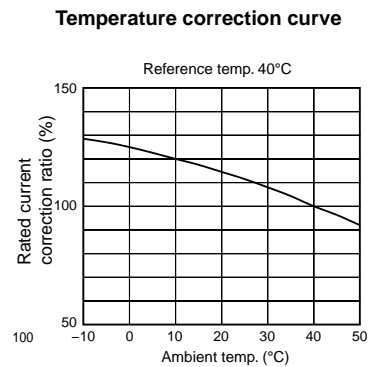
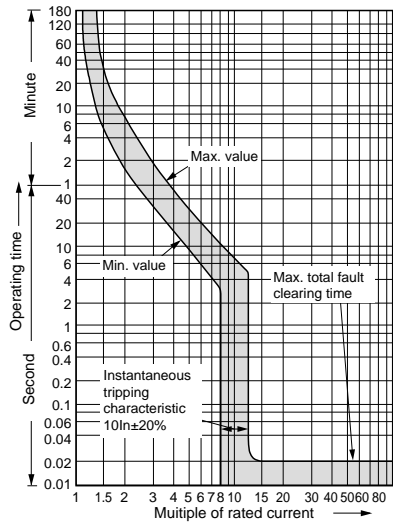
■ Characteristic curves / Line protection
BW50HAG, BW125



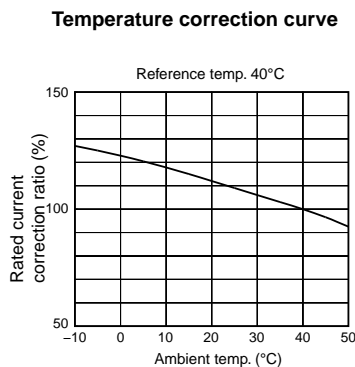
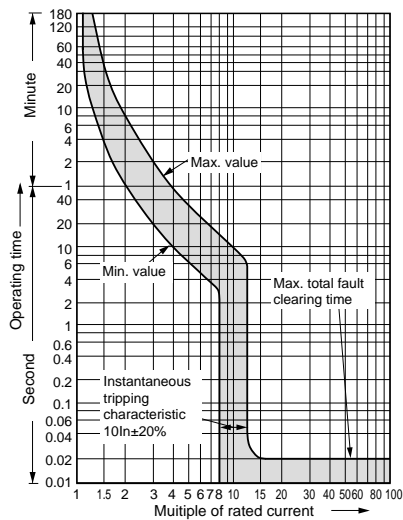
Temperature correction curve



BW160, 250



BW400



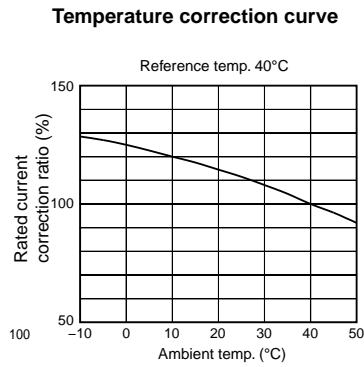
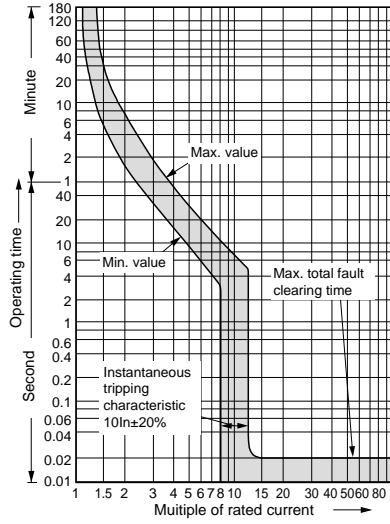
Molded Case Circuit Breakers

G-TWIN series

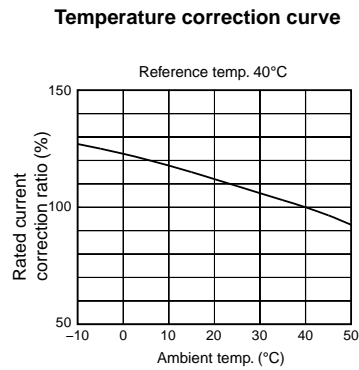
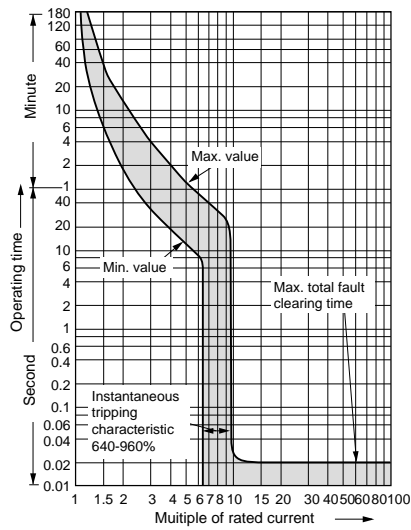
Characteristic curves

■ Characteristic curves / Line protection

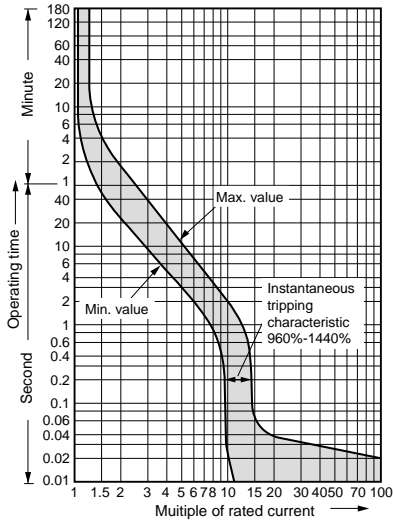
BW630



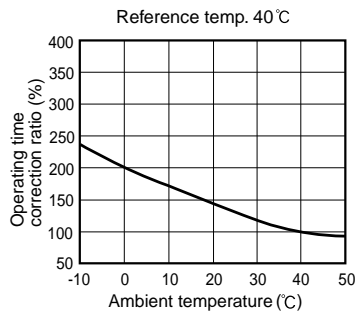
BW800



■ Characteristic curves / Motor protection
BW32, 50, 63, 100

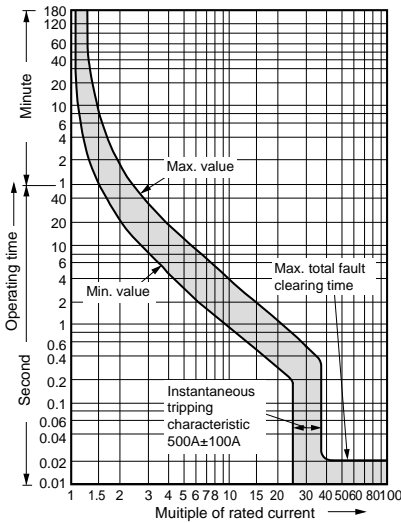


Temperature correction curve

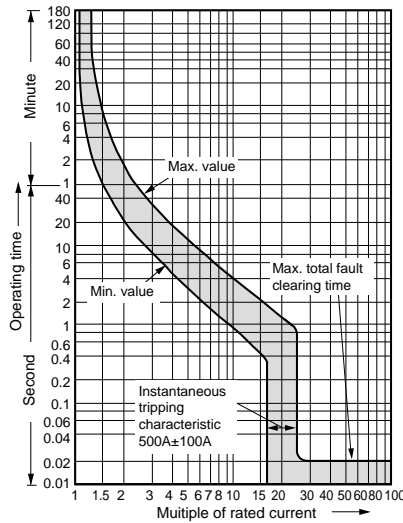


BW125

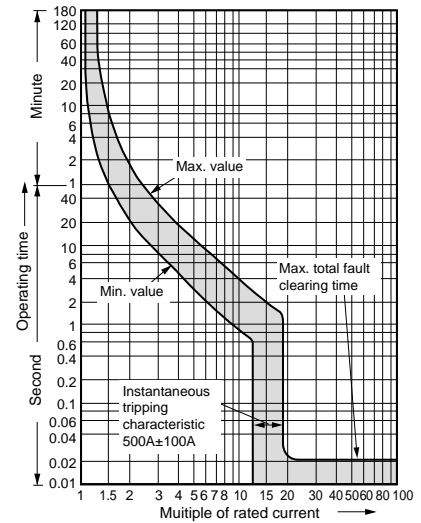
• 16A



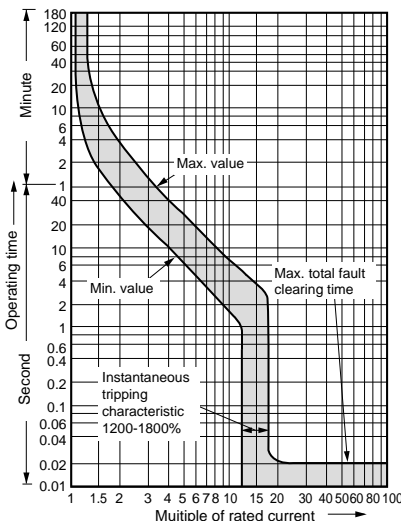
• 24A



• 32A

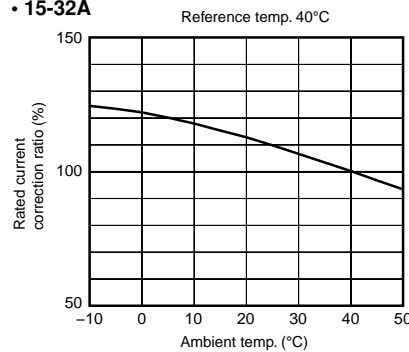


• 40-90A

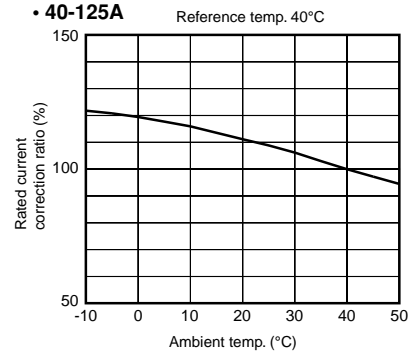


Temperature correction curve

• 15-32A



• 40-125A



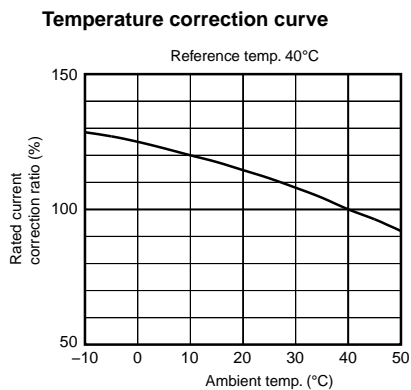
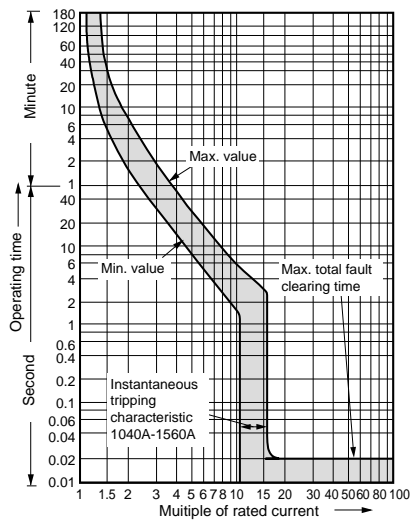
Molded Case Circuit Breakers

G-TWIN series

Characteristic curves

■ Characteristic curves / Motor protection

BW250



■ Variation of internal accessory
 • 32 to 100AF

Auxiliary switch (Type W)



This switch is used for indicator lamp or control circuit.
 See page 06/69.

Alarm switch (Type K)

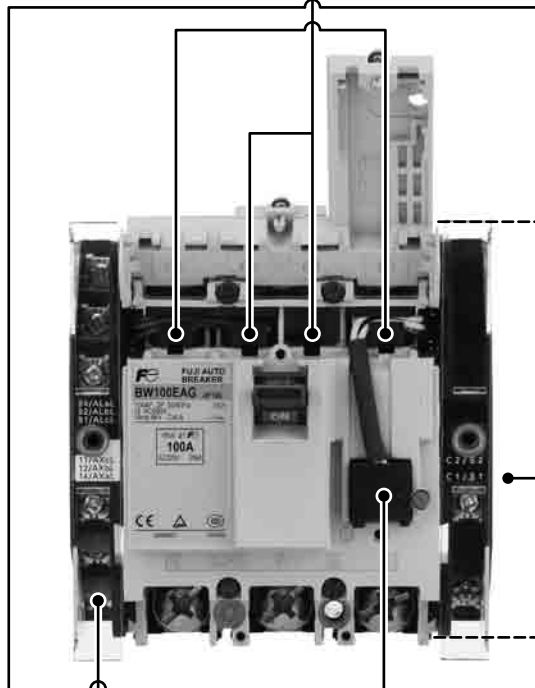


This switch can be connected to a warning lamp or buzzer to indicate when the breaker has been tripped.
 See page 06/69.

Shunt trip device (Type F)



The purpose of this accessory is to trip the breaker from a distance.
 See page 06/70.



Undervoltage trip device (Type R)



The device is designed to protect circuits from harmful voltage drops. It can also be used for remote control purposes. The trip operates when the voltage drops to less than 70% of nominal coil rating, and the breaker cannot be reset until the voltage recovers 85% of its normal rating.
 See page 06/70.

Terminal block (Type A)



A wiring terminal for internal accessories
 (Order with W, K or F)
 See page 06/71.

Molded Case Circuit Breakers

G-TWIN series

Accessories

■ Variation of internal accessory

• 125 to 250AF

Auxiliary switch (Type W)



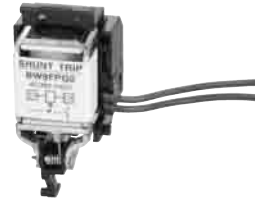
This switch is used for indicator lamp or control circuit.
See page 06/69.

Alarm switch (Type K)



This switch can be connected to a warning lamp or buzzer to indicate when the breaker has been tripped.
See page 06/69.

Shunt trip device (Type F)

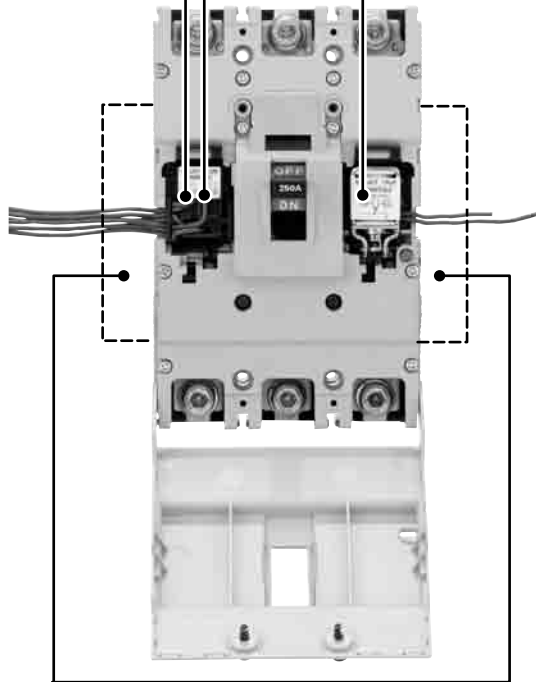


The purpose of this accessory is to trip the breaker from a distance.
See page 06/70.

Undervoltage trip device (Type R)



The device is designed to protect circuits from harmful voltage drops. It can also be used for remote control purposes. The trip operates when the voltage drops to less than 70% of nominal coil rating, and the breaker cannot be reset until the voltage recovers 85% of its normal rating.
See page 06/70.



Terminal block (Type A)



A wiring terminal for internal accessories (Factory-mounted)
See page 06/71.

■ Variation of internal accessory
 • 400 to 800AF

Alarm switch (Type K)



This switch can be connected to a warning lamp or buzzer to indicate when the breaker has been tripped. See page 06/69.

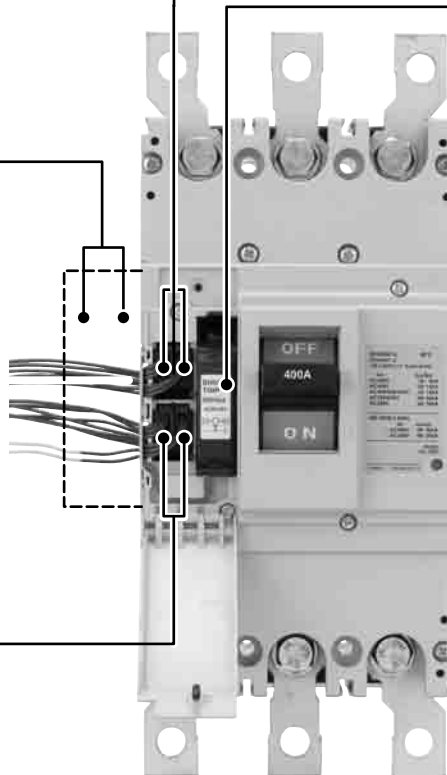
Shunt trip device (Type F)



The purpose of this accessory is to trip the breaker from a distance. See page 06/70.

Terminal block (Type A)

A wiring terminal for internal accessories (Factory-mounted)
 See page 06/71.



Auxiliary switch (Type W)



This switch is used for indicator lamp or control circuit. See page 06/69.

Undervoltage trip device (Type R)



The device is designed to protect circuits from harmful voltage drops. It can also be used for remote control purposes. The trip operates when the voltage drops to less than 70% of nominal coil rating, and the breaker cannot be reset until the voltage recovers 85% of its normal rating. See page 06/70.

06

Molded Case Circuit Breakers

G-TWIN series

Accessories

■ Variation of external accessory

External operating handles

• N-type

See page 06/79.



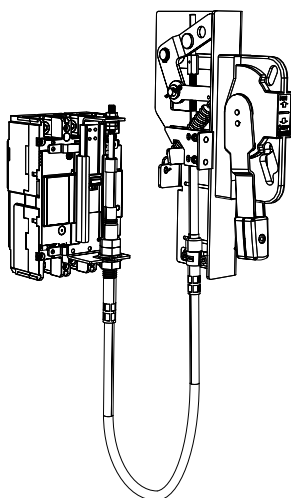
• V-type

See page 06/79.



• F-type

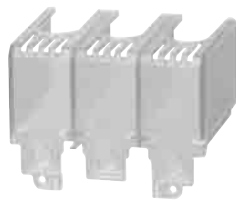
See page 06/79.



Terminal cover

Long type

See page 06/90.



Interphase barrier

See page 06/92.



Terminal cover

Short type

See page 06/91.

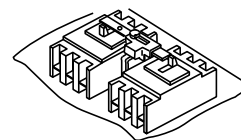
Steel enclosures

See page 06/88.



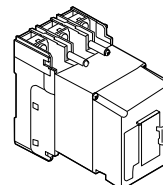
Mechanical interlock device

See page 06/75.



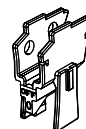
Motor-operating mechanism

See page 06/74.



Handle locking cover (L1)

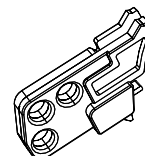
See page 06/93.



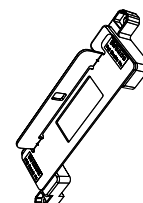
Padlocking device

See page 06/93.

• Cap type (Q1, QN)

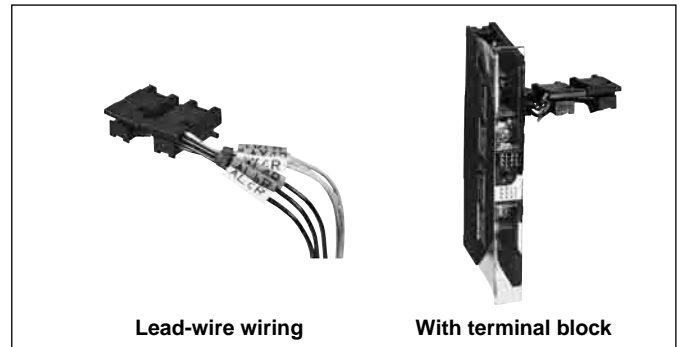


• Plate type (Q2)



■ Terminal blocks for auxiliary circuit

- It indicates the terminal No. of internal accessory. The connection method of internal accessory is lead-wire system and terminal block system.
- For the available configuration of internal accessory, see page 06/68.



• Terminal number of internal accessory

Accessory		32 – 250AF		400 – 800AF
		Left side mounting	Right side mounting	Left side mounting
Auxiliary switch	SPDT: W (1)*			
	2PDT: V (2)*			
Alarm switch	SPDT: K (8)*			
	2PDT: J (9)*			
Shunt trip device : F	With 1NO contact to prevent coil burn-out			---
	Continuous rating	---		
Undervoltage trip device : R				

Note: * () Code of Low level circuit

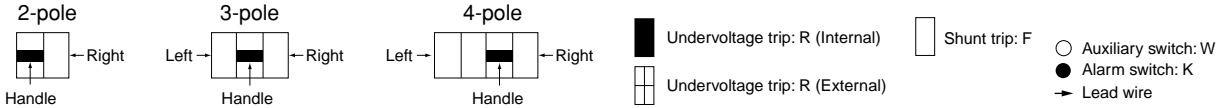
06

Molded Case Circuit Breakers

G-TWIN series

Internal accessories

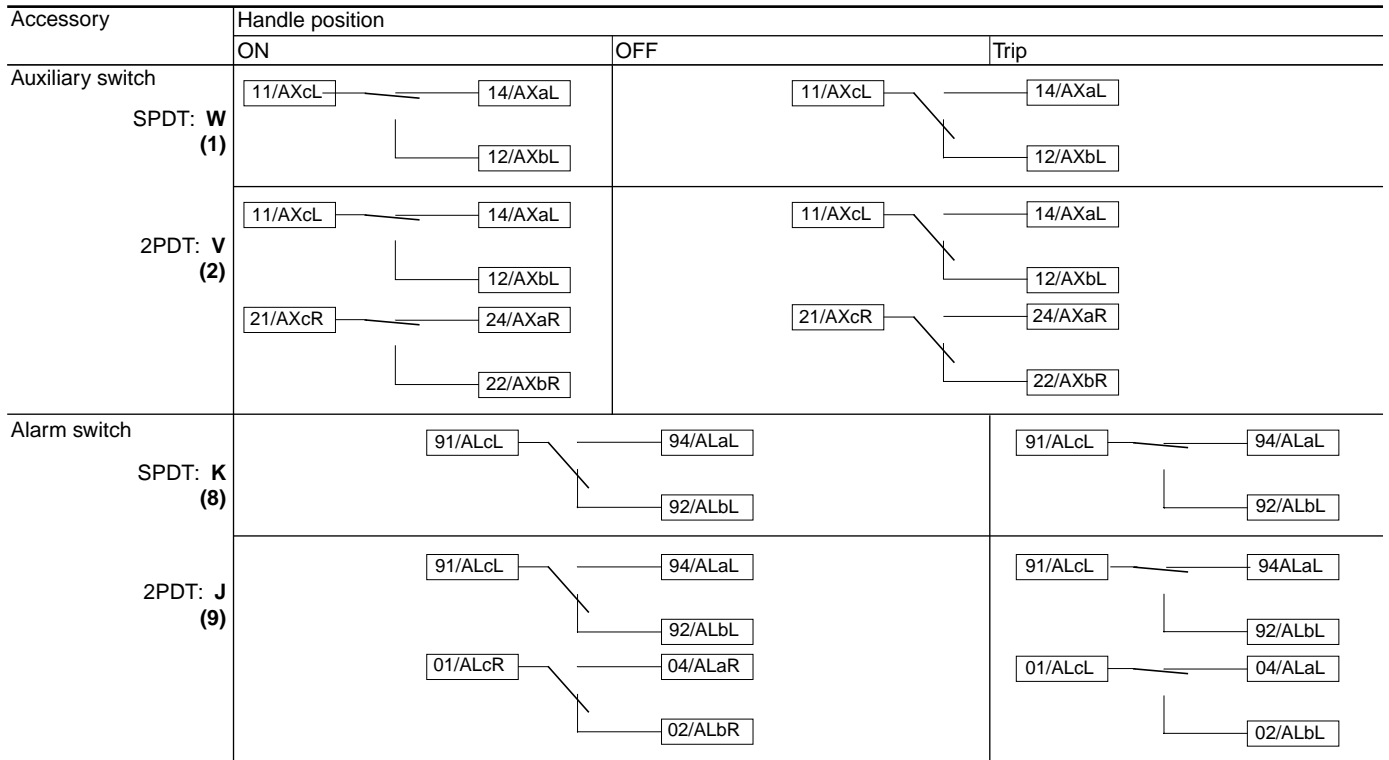
Available configurations



MCCB	BW32□-2P BW50□-2P BW63□-2P BW100□-2P	BW32□-3P BW50□-3P BW63□-3P BW100□-3P	BW125JAG-2P BW125JAGU-2P	BW125 BW160 BW250 (Except for BW125JAG-2P, BW125JAGU-2P)	BW400 BW630 BW800	
Pole	2	3	2	2, 3	4	2, 3, 4
Auxiliary switch SPDT: W (1)*						
Alarm switch SPDT: K (8)*						
Shunt trip: F						
Undervoltage trip: R	*2	*2				
W+K (1+8)						
Auxiliary switch 2PDT: V (2)						
Alarm switch 2PDT: J (9)						
V+K (2+8)						
W+J (1+9)						
V+J (2+9)						
W+F (1+F)						
W+R (1+R)	*2	*2				
K+F (8+F)						
K+R (8+R)	*2	*2				
W+K+F (1+8+F)						
W+K+R (1+8+R)	*2	*2				
V+F (2+F)						
V+R (2+R)		*2				
J+F (9+F)						
J+R (9+R)		*2				
V+K+F (2+8+F)						
V+K+R (2+8+R)		*2				
W+J+F (1+9+F)						
W+J+R (1+9+R)		*2				
V+J+F (2+9+F)				*1		
V+J+R (2+9+R)		*2		*1		

Notes: •The above table is applied to front mounting type, rear mounting type, flush mounting type, and plug-in mounting type.
 • Terminal block is attached on the same side of the accessory.
 • () Code of low level circuit □:See page 06/2.
 *1 Configurations with terminal block are not available.
 *2 Flush mounting, rear connection type breakers of 100AF or less are not available.

■ Operation of auxiliary switches(W) and alarm switches(K)



Note: Ring mark indication
 () Code of low level circuit

06

■ Ratings of auxiliary switches(W) and alarm switches(K)

• 32-100AF

	IEC60947-5-1			NECA C4505		Minimum load current
	Voltage (V)	Make/break current (A)		Voltage (V)	Make/break current (A)	
		AC 15	DC 13			
Standard type	125 AC	5	–	125 AC	5	5V DC 160mA 30V DC 30mA
	250 AC	5	–	250 AC	3	
	–	–	–	30 DC	4	
	125 DC	–	0.6	125 DC	0.4	
	250 DC	–	0.3	250 DC	0.2	
Low level circuit	–	–	–	30 DC	0.1	5V DC 1mA

• 125-800AF

	Rated thermal current (A)	Rated operational current (A)						Minimum load current
		AC			DC			
		Rated operational Voltage (V)	Res. load	Ind. load	Rated operational Voltage (V)	Res. load	Ind. load	
Standard type	5	24	5	5	24	4	3	5V DC 160mA 30V DC 30mA
		48	5	5	48	2.5	1	
		125	5	3	125	0.4	0.4	
		250	3	2	250	0.2	0.2	
Low level circuit	0.1	30	0.1	–	30	0.1	–	5V DC 1mA

Molded Case Circuit Breakers

G-TWIN series

Internal accessories

■ Rating of shunt trip (F)

MCCB type	AC		DC		Code	Time rating of coil	Opening time (ms)
	V	VA	V	W			
BW32 BW50 BW63 BW100	100-120	150	100-110	150	FAC100-120V/ DC100-110V	Continuous (With 1NO contact to prevent coil burn-out)	7-13
	200-240	150	–	–	FAC200-240V		
	380-450	200	–	–	FAC380-450V		
	24	150	24	150	FAC/DC24V		
BW125 BW160 BW250	24	50	24	50	FAC/DC24V		13-21
	48	50	48	50	FAC/DC48V		
	100-120	50	100-110	50	FAC100-120V/ DC100-110V		
	120-130	50	–	–	FAC120-130V		
	200-240	50	200-220	50	FAC200-240V/ DC200-220V		
	277	50	–	–	FAC277V		
	380-440	50	–	–	FAC380-440V		
BW400 BW630 BW800	24-48	2	24-48	2	FAC/DC24-48V	Continuous	8-20
	100-240	3	100-220	3	FAC100-240V DC100-220V		
	277	3	–	–	FAC277V		
	380-550	4	–	–	FAC380-550V		

Note: The operating tripping voltage range for shunt trip devices is 70% to 110% of the rated operating voltage.

■ Rating of undervoltage trip (R)

MCCB type	Installation	AC		DC		Code
		V	VA	V	W	
BW32 *2 BW50 *2 BW63 *2 BW100 *2	External	100 (50Hz)/ 100-110(60Hz)	2.8	–	–	RAC100(50Hz)/ 100-110V(60Hz)
		200 (50Hz)/ 200-220 (60Hz)	3.4	–	–	RAC200(50Hz)/ 200-220V(60Hz)
		400 (50Hz)/ 400-440 (60Hz)	4.4	–	–	RAC400(50Hz)/ 400-440V(60Hz)
		–	–	24	40	RDC24V RDC100-110V
BW125 *1 BW160 *1 BW250 *1	Internal	–	–	24	5	RDC24V
		–	–	48	5	RDC48V
		–	–	100-110	5	RDC100-110V
		–	–	125	5	RDC125V
		100-110	5	–	–	RAC100-110V
		110-130	5	–	–	RAC110V-130V
		200-240	5	–	–	RAC200-240V
		277	5	–	–	RAC277V
		380-415	5	–	–	RAC380-415V
		440-480	5	–	–	RAC440V-480V
BW400 *2 BW630 *2 BW800 *2	Internal	24	2	24	2	RAC/DC24V
		48	2	48	2	RAC/DC48V
		100-110	3	100-110	3	RAC/DC100-110V
		120-130	3	125	3	RAC120-130V/DC125V
		200-240	3	200-220	3	RAC200-240V/DC200-220V
		277	3	–	–	RAC277V
380-480	4	–	–	RAC380-480V		

Notes: • The operating voltages of undervoltage tripping devices are as follows:

Tripping voltage: 35% to 70% of rated voltage, closing voltage: 85% to 110% of rated voltage.

*1 Reset-allowed type: When the breaker handle is in the OFF or RESET state, tripping does not occur even if the R coil is not energized. Turning ON with the R coil not energized causes normal tripping.

*2 Reset-prohibited type: When the R coil is not energized, reset operation cannot reset the tripped breaker to the OFF state.

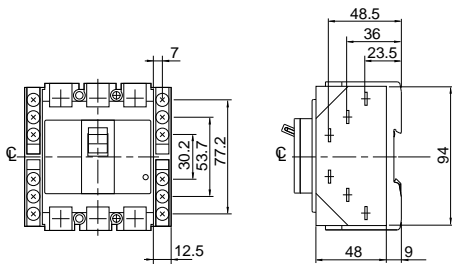
Molded Case Circuit Breakers G-TWIN series Internal accessories

Lead wire specification

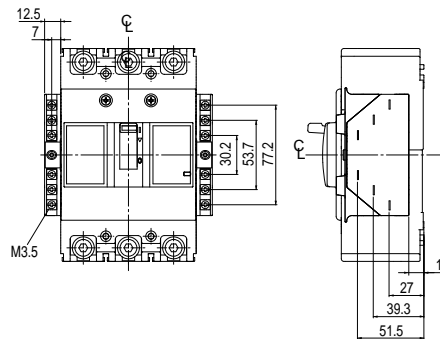
AF	Pole	wire size	Wire length
32 to 100AF	-	0.4mm ² (AWG22)	Ca 500mm
125 to 250AF	2P, 3P	0.5mm ² (AWG20)	
	4P		
400 to 800AF	2P, 3P	0.5mm ²	Ca 500mm
	4P		Ca 400 to 450mm

Terminal blocks

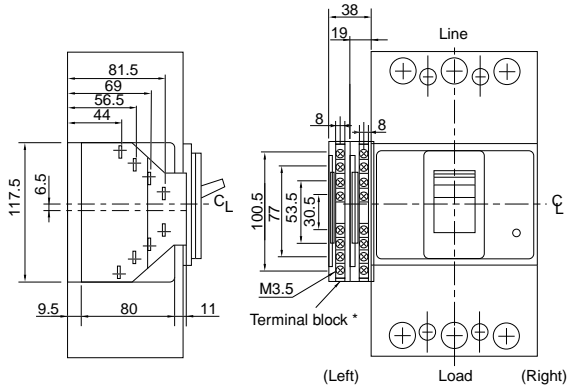
32AF, 50AF, 63AF, 100AF



125AF, 160AF, 250AF



400AF, 630AF, 800AF

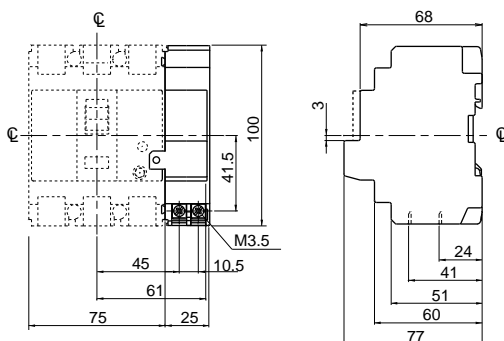


Notes:

- * If the chosen combination has more than 8 terminals, 2 terminal blocks are mounted.
- * Mount the terminal block on the surface on which the accessories are mounted. See the table of the combinations of internal accessories on pages 06/68. for information on the accessory mounting position.
- Available wire: Solid wire: 1.6ø Stranded wire: 2mm²
- Terminal blocks are available as factory mounted only.

Undervoltage trip device

32AF, 50AF, 63AF, 100AF



Mass: 0.15kg

Molded Case Circuit Breakers

G-TWIN series

Internal accessories

■ Type number

Internal accessories (Sold separately)

• 32, 50, 63, 100AF IEC/EN/GB/JIS conformed

Accessory	Type				Operating voltage
	Lead wire system		Terminal block system		
	Left side	Right side	Left side	Right side	
Auxiliary switch	BZ6WL10C	BZ6WR10C	BZ6WL10CA	BZ6WR10CA	
Auxiliary switch (low level circuit)	BZ6WDL10C	BZ6WDR10C	BZ6WDL10CA	BZ6WDR10CA	
Alarm switch	BZ6KL10C	BZ6KR10C	BZ6KL10CA	BZ6KR10CA	
Alarm switch (low level circuit)	BZ6KDL10C	BZ6KDR10C	BZ6KDL10CA	BZ6KDR10CA	
Auxiliary switch + Alarm switch	BZ6WKL10C	BZ6WKR10C	BZ6WKL10CA	BZ6WKR10CA	
Auxiliary switch + Alarm switch (low level circuit)	BZ6WDKDL10C	BZ6WDKDR10C	BZ6WDKDL10CA	BZ6WDKDR10CA	
Shunt trip device	-	BZ6FA10C	-	BZ6FA10CA	
	-	BZ6FK10C	-	BZ6FK10CA	200-240V AC
	-	BZ6FP10C	-	BZ6FP10CA	380-450V AC
	-	BZ6FR10C	-	BZ6FR10CA	24V AC/DC
Undervoltage trip device	-	-	-	BZ6R210C	100V AC 50Hz/100-110V AC 60Hz
	-	-	-	BZ6R110C	110V AC 50Hz/110-127V AC 60Hz
	-	-	-	BZ6RW10C	200V AC 50Hz/200-220V AC 60Hz
	-	-	-	BZ6R410C	220V AC 50Hz/220-240V AC 60Hz
	-	-	-	BZ6R510C	230V AC 50Hz/230-240V AC 60Hz
	-	-	-	BZ6R810C	240V AC 50Hz
	-	-	-	BZ6R010C	380V AC 50Hz 380-415V AC 60Hz
	-	-	-	BZ6R910C	400V AC 50Hz 400-440V AC 60Hz
	-	-	-	BZ6RF10C	24V DC
	-	-	-	BZ6RT10C	100-110V DC

• 50, 100AF IEC/EN/GB/JIS/UL/CSA conformed

Accessory	Type				Operating voltage
	Lead wire system		Terminal block system		
	Left side	Right side	Left side	Right side	
Auxiliary switch	BZ6WL10CU	BZ6WR10CU	BZ6WL10CAU	BZ6WR10CAU	
Auxiliary switch (low level circuit)	BZ6WDL10CU	BZ6WDR10CU	BZ6WDL10CAU	BZ6WDR10CAU	
Alarm switch	BZ6KL10CU	BZ6KR10CU	BZ6KL10CAU	BZ6KR10CAU	
Alarm switch (low level circuit)	BZ6KDL10CU	BZ6KDR10CU	BZ6KDL10CAU	BZ6KDR10CAU	
Auxiliary switch + Alarm switch	BZ6WKL10CU	BZ6WKR10CU	BZ6WKL10CAU	BZ6WKR10CAU	
Auxiliary switch + Alarm switch (low level circuit)	BZ6WDKDL10CU	BZ6WDKDR10CU	BZ6WDKDL10CAU	BZ6WDKDR10CAU	
Shunt trip device	-	BZ6FA10CU	-	BZ6FA10CAU	
	-	BZ6FK10CU	-	BZ6FK10CAU	200-240V AC
	-	BZ6FP10CU	-	BZ6FP10CAU	380-450V AC
Undervoltage trip device	-	-	-	BZ6R210CAU	100V AC 50Hz/100-110V AC 60Hz
	-	-	-	BZ6RW10CAU	110V AC 50Hz/110-127V AC 60Hz
	-	-	-	BZ6R910CAU	200V AC 50Hz/200-220V AC 60Hz

Molded Case Circuit Breakers
G-TWIN series
Internal accessories

• 125, 160, 250AF IEC/EN/GB/JIS/UL/CSA conformed

Accessory	Type				Operating voltage
	Lead wire system		Terminal block system		
	Left side	Right side	Left side	Right side *	
Auxiliary switch	BW9W1SG0	BW9W1SG0-R	BW9W1SG0-A	-	-
Auxiliary switch (low level circuit)	BW9W1DG0	BW9W1DG0-R	- *		
Alarm switch	BW9K1SG0	BW9K1SG0-R	BW9K1SG0-A		
Alarm switch (low level circuit)	BW9K1DG0	BW9K1DG0-R	- *		
Auxiliary switch + Alarm switch	BW9WKSG0	BW9WK1SG0-R	BW9WKSG0-A		
Auxiliary switch + Alarm switch (low level circuit)	BW9WKDG0	BW9WK1DG0-R	- *		
Shunt trip device	BW9FRG0	BW9FRG0	BW9FRG0-A		24V AC/DC
	BW9FSG0	BW9FSG0	BW9FSG0-A		48V AC/DC
	BW9FAG0	BW9FAG0	BW9FAG0-A		100-120V AC/100-110V DC
	BW9F1G0	BW9F1G0	BW9F1G0-A		120-130V AC
	BW9FKG0	BW9FKG0	BW9FKG0-A		200-240V AC/200-220V DC
	BW9FBG0	BW9FBG0	BW9FBG0-A		277V AC
	BW9FPG0	BW9FPG0	BW9FPG0-A		380-440V AC
	BW9FHG0	BW9FHG0	BW9FHG0-A		440-480V AC
	BW9FJG0	BW9FJG0	BW9FJG0-A		500-550V AC
	Undervoltage trip devices	BW9RGAR	-	BW9RGAR-A	
BW9RGAS			BW9RGAS-A		48V DC
BW9RGAL			BW9RGAL-A		100-110V DC
BW9RGA5			BW9RGA5-A		125V DC
BW9RGAA			BW9RGAA-A		100-110V AC
BW9RGAT			BW9RGAT-A		110-130V AC
BW9RGAK			BW9RGAK-A		200-240V AC
BW9RGAB			BW9RGAB-A		277V AC
BW9RGAP			BW9RGAP-A		380-415V AC
BW9RGAH			BW9RGAH-A		440-480V AC

Note: * Factory-mounted

• 400, 630, 800AF IEC/EN/GB/JIS/UL/CSA conformed

Accessory	Type		Operating voltage
	Lead wire system	Terminal block system *	
	Left side		
Auxiliary switch x 1	BW9W1SHA	-	-
Auxiliary switch x 2	BW9W2SHA		
Auxiliary switch (low level circuit) x 1	BW9W1DHA		
Auxiliary switch (low level circuit) x 2	BW9W2DHA		
Alarm switch x 1	BW9K1SHA		
Alarm switch x 2	BW9K2SHA		
Alarm switch (low level circuit) x 1	BW9K1DHA		
Alarm switch (low level circuit) x 2	BW9K2DHA		
Shunt trip device	BW9FHA-R		24-48V AC/DC
	BW9FHA-A		100-240V AC/100-220V DC
	BW9FHA-B		277V AC
	BW9FHA-P		380-550V AC
Undervoltage trip devices	BW9RHA-R		24V AC/DC
	BW9RHA-S		48V AC/DC
	BW9RHA-A		100-110 AC/DC
	BW9RHA-1		120-130V AC/125V DC
	BW9RHA-K		200-240V AC/200-220V DC
	BW9RHA-B		277V AC
	BW9RHA-P		380-480V AC

Note: * Factory-mounted

Molded Case Circuit Breakers

G-TWIN series

External accessories

Motor-operated breakers

■ Description

The breaker is fitted with a motor operating mechanism which enables ON, OFF and RESET operations to be carried out electronically by remote control.

The breakers do not conform to IEC and EN standard.



■ Type and ratings

MCCB type	Motor rating			Power source capacity	Mass (kg)
	Operating voltage	Operating time	Time rating		
BW32□-3P□M, BW50□-3P□M, BW63□-3P□M, BW100□-3P□M	100V DC	0.1s	15s per on-off operation	500VA	1.2
	100/110V AC 200/220V AC				1.3

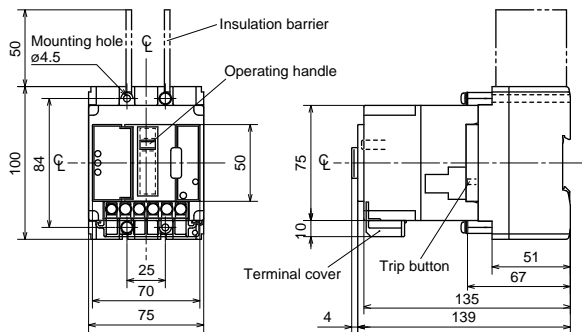
■ Ordering information

Specify the following:

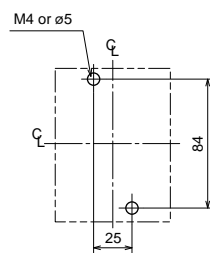
1. Type number
2. Motor operating voltage

■ Dimensions, mm / Front mounting, front connection

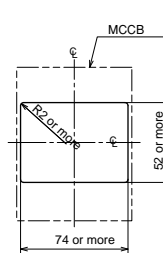
BW32□-3P, BW50□-3P, BW63□-3P, BW100□-3P,



Panel drilling



Panel cutting

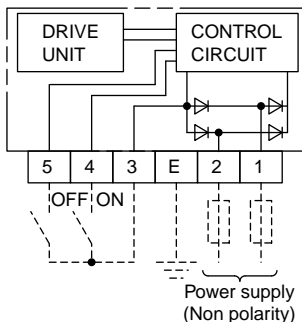


Mass: 1.2kg (BW32 or BW50 type with motor operating mechanism)
1.3kg (BW63 or BW100 type with motor operating mechanism)

- Notes:
- Trip button operation can be carried out at right side of the breaker.
 - IEC 35mm wide mounting rail is not available.

■ Wiring diagrams

100/110V AC, 200/220V AC, 100V DC



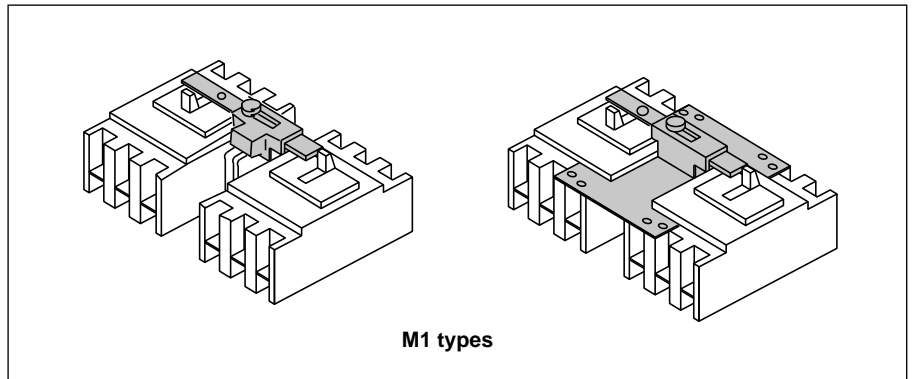
Mechanical interlocking devices

■ Description

These interlocking devices are mounted on the two separate breakers to prevent them from both being closed at the same time. A sliding mechanism that can be locked with a padlock is used. (The padlock is not included.)

They are designed for use when changing over power supplies.

These can be mounted to 3 types of breakers: front-mounting front-connection type, front-mounting rear-connection type (type X), and plug-in mounting type (type P). Interlock devices for flush mounting type breakers (type E, Y) are also available.



■ Type and applicable breakers

Type	Breaker type
BZ6M110C2	BW32AAG-2P, BW32SAG-2P BW50AAG-2P, BW50EAG-2P, BW50SAG-2P, BW50RAG-2P BW63EAG-2P, BW63SAG-2P, BW63RAG-2P BW100EAG-2P
BZ6M110C3	BW32AAG-3P, BW32SAG-3P BW50AAG-3P, BW50EAG-3P, BW50SAG-3P, BW50RAG-3P BW63EAG-3P, BW63SAG-3P, BW63RAG-3P BW100AAG-3P, BW100EAG-3P
BW9M1CA-2	BW125JAG-2P
BW9M1CA-3	BW125JAG-3P, BW125SAG-2P, BW125SAG-3P, BW125RAG-2P, BW125RAG-3P
BW9M1CA-4	BW125JAG-4P, BW125SAG-4P, BW125RAG-4P
BW9M1GA-3	BW160EAG-2P, BW160EAG-3P, BW160JAG-2P, BW160JAG-3P BW160SAG-2P, BW160SAG-3P, BW160RAG-2P, BW160RAG-3P BW250EAG-2P, BW250EAG-3P, BW250JAG-2P, BW250JAG-3P BW250SAG-2P, BW250SAG-3P, BW250RAG-2P, BW250RAG-3P
BW9M1GA-4	BW160JAG-4P, BW160SAG-4P, BW160RAG-4P BW250JAG-4P, BW250SAG-4P, BW250RAG-4P
BW9M1HA-3	BW400EAG-2P, BW400EAG-3P, BW400SAG-2P, BW400SAG-3P BW400RAG-2P, BW400RAG-3P, BW400HAG-2P, BW400HAG-3P
BW9M1HA-4	BW400RAG-4P, BW400HAG-4P
BW9M1JA-3	BW630EAG-3P, BW630RAG-3P, BW630HAG-3P BW800EAG-3P, BW800RAG-3P, BW800HAG-3P

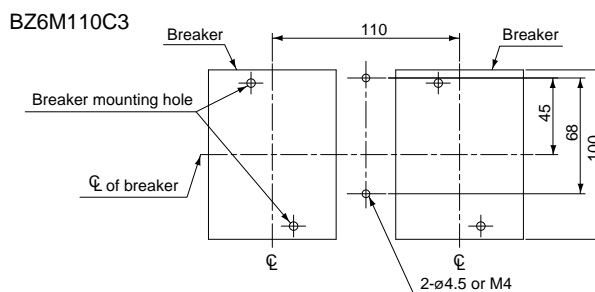
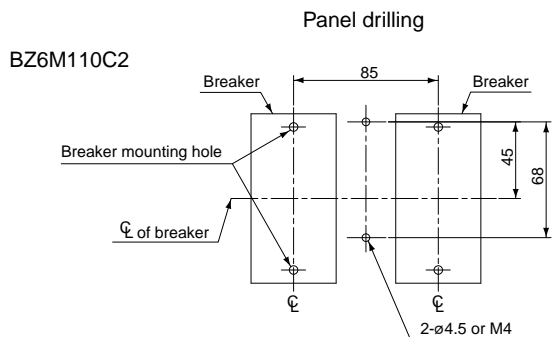
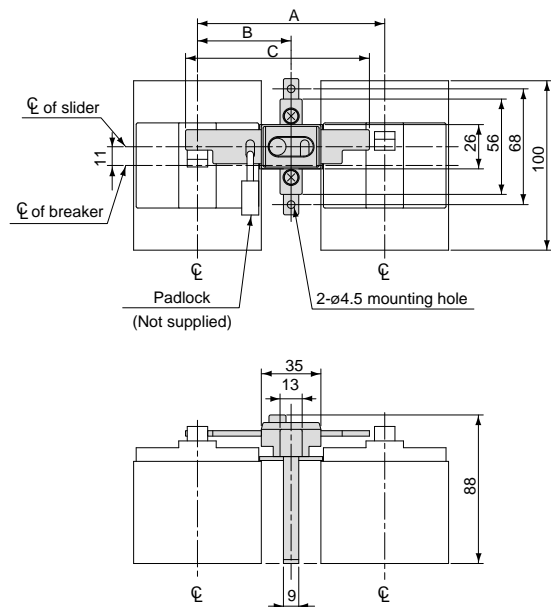
Molded Case Circuit Breakers

G-TWIN series

External accessories

■ Dimensions, mm

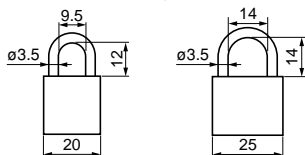
• 32AF to 100AF



Type	Dimensions, mm			Mass (kg)
	A	B	C	
BZ6M110C2	85	42.5	83	0.11
BZ6M110C3	110	55	108	0.12

Notes:

- BZ6M110C2 is not available for padlock.
- Applicable padlock(ø3.5) dimensions, mm
- External installation forms F and R are not applicable to the MCCB on the left of the diagram.



■ Dimensions, mm
 • 125AF to 250AF

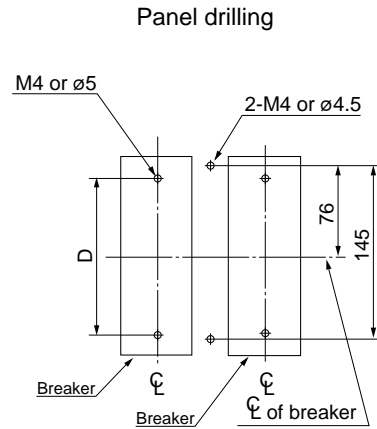
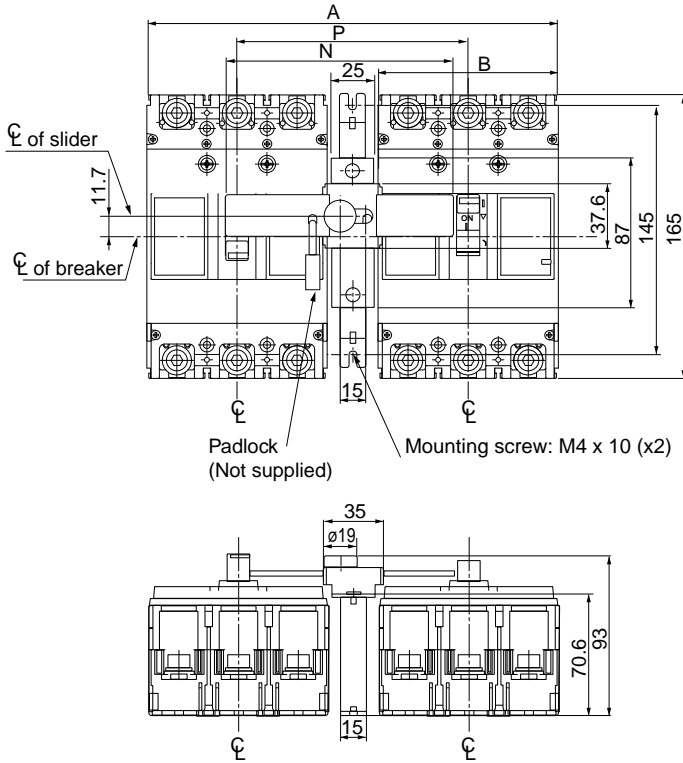


Fig.1

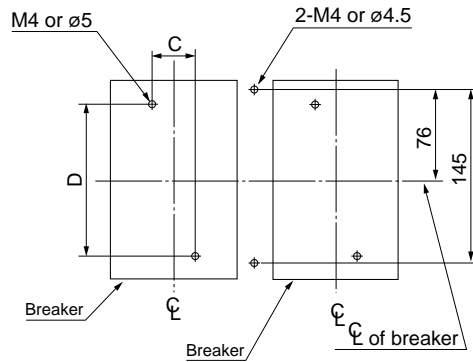
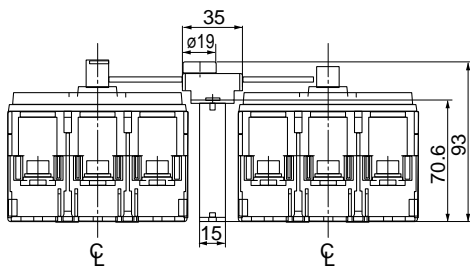


Fig.2

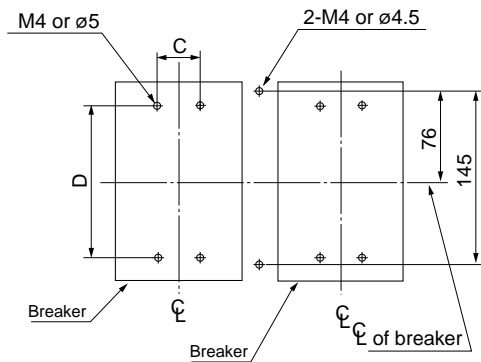


Fig.3

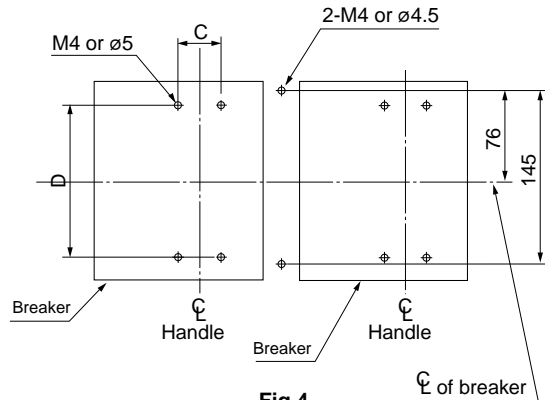
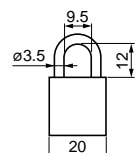


Fig.4

Type	Dimensions, mm						Panel Drilling	Mass(Kg)
	P	N	A	B	C	D		
BW9M1CA-2	90	88	150	60	—	132	Fig.1	
BW9M1CA-3	120	118	210	90	30	132	Fig.2	
BW9M1CA-4	150	148	270	102	30	132	Fig.4	
BW9M1GA-3	135	133	240	105	35	126	Fig.3	
BW9M1GA-4	170	168	310	140	35	126	Fig.4	

Notes: • The dimensions and Breaker mounting holes for back surface mounting are different from those given above. Inquire for details.
 • If a padlock is required, use a commercially available padlock with the dimensions shown in the diagram at the right.
 • External installation forms F and R are not applicable to the MCCB on the left of the diagram.



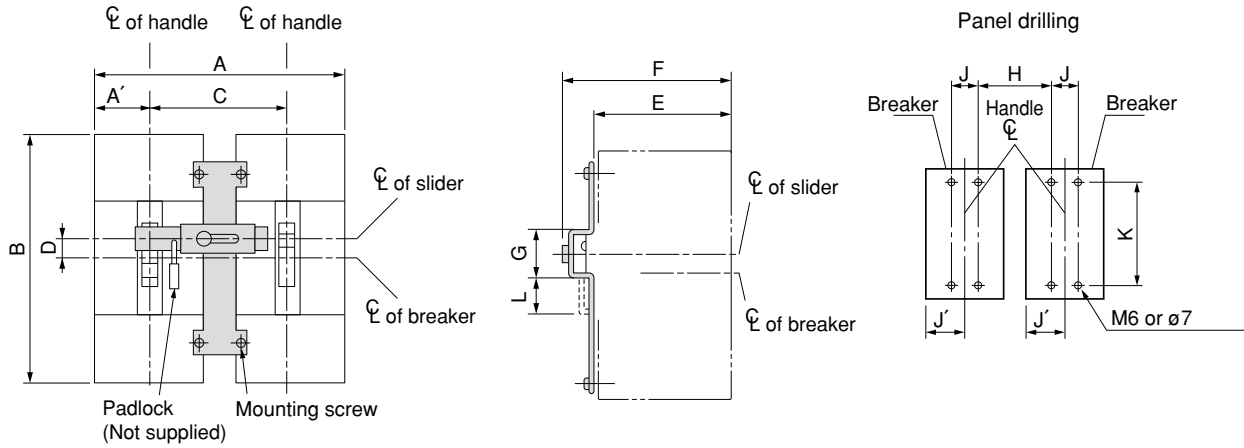
06

Molded Case Circuit Breakers

G-TWIN series

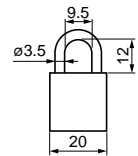
External accessories

■ Dimensions, mm
 • 400AF to 800AF



Type	Dimensions, mm											Mass(Kg)
	A (A')	B	C	D	E	F	G	H	J (J')	K	L	
BW9M1HA-3	355 (70)	257	215	20	94.5	132.5	54.5	171	44 (70)	215	38	
BW9M1HA-4	470 (140)	257	260	20	94.5	132.5	54.5	216	44 (140)	215	38	
BW9M1JA-3	500 (105)	275	290	20	94.5	132.5	54.5	220	70 (105)	243	38	

- Notes:
- The dimensions and Breaker mounting holes for back surface mounting are different from those given above. Inquire for details.
 - If a padlock is required, use a commercially available padlock with the dimensions shown in the diagram at the right.
 - External installation forms F and R are not applicable to the MCCB on the left of the diagram.



External operating handles

■ **Description**

Molded case circuit breaker handles are generally directly manual-operated but when mounted in motor control centers or on control panels they are sometimes required to be operated externally. To meet such applications FUJI offers the following three types of handles.

N type handle

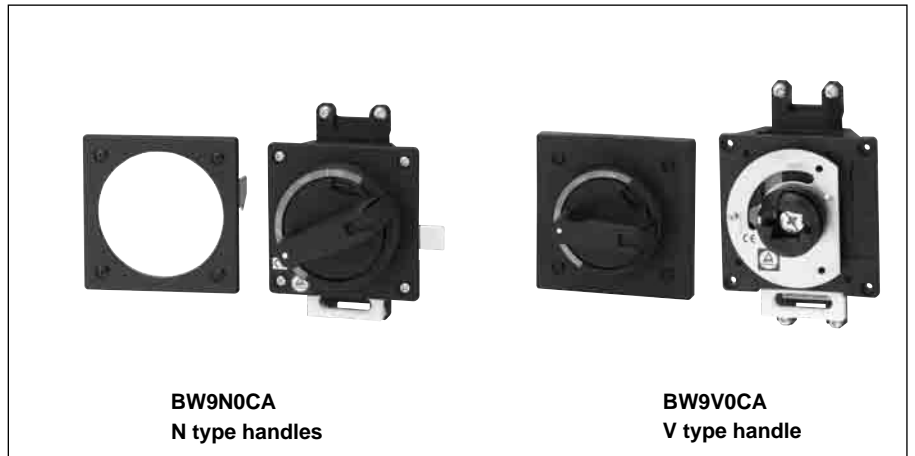
This type has a knob handle directly attached to the breaker. It is easily fitted by cutting a hole in the panel, which is provided with a door interlock. They may be fitted to all breakers up to 800 ampere frame sizes. Conformed to EN60947-1 isolation function. Available for EN60204-1 power breaking device. Conformed to UL489 (File No.E93289)

V type handle

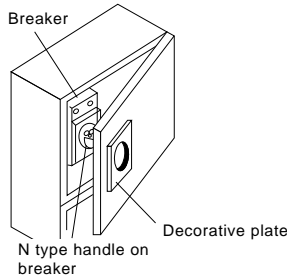
The V type handle may be fitted to breakers of up to 800AF. A separately sold extension shaft provides distance adjustment between the handle and breaker. Conformed to EN60947-1 isolation function. Available for EN60204-1 power breaking device. Conformed to UL489 (File No.E93289)

F type handle

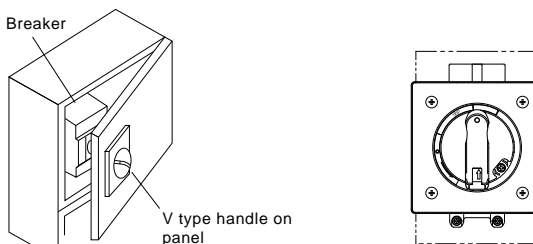
The F type handle may be fitted to breakers of 125 to 400AF. It is a flange type handle, which is commonly used in the North American market. The drive section of the breaker and the external operating handle are connected with an optional cable. Positioning between the breaker and the external operating handle is not required. Conformed to UL489 (File No.E93289)



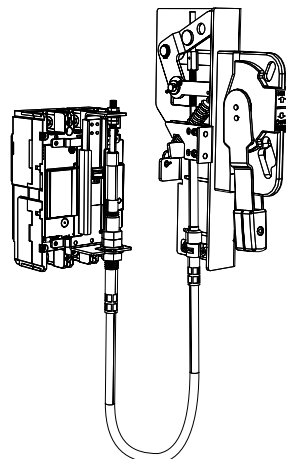
N type handles



V type handles



F type handles



Molded Case Circuit Breakers

G-TWIN series

External accessories

N type handles

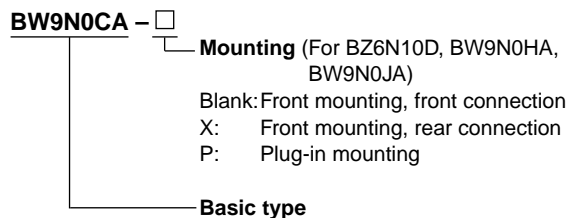
MCCB	N type handle
BW32	BZ6N10D
BW50	
BW63	
BW100	
BW125	BW9N0CA
BW160	BW9N0GA
BW250	
BW400	BW9N0HA
BW630	BW9N0JA
BW800	

V type handles

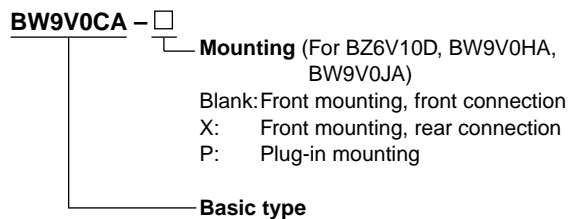
MCCB	V type handle
BW32	BZ6V10D
BW50	
BW63	
BW100	
BW125	BW9V0CA
BW160	BW9V0GA
BW250	
BW400	BW9V0HA
BW630	BW9V0JA
BW800	

■ Type number nomenclature

• N type handle



• V type handle

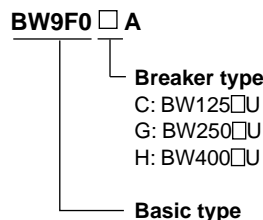


Note:
 To order a V handle for front-mounting rear connection breakers, add "-X" to the type number; for plug-in mounting breakers, add "-P" to the type number.

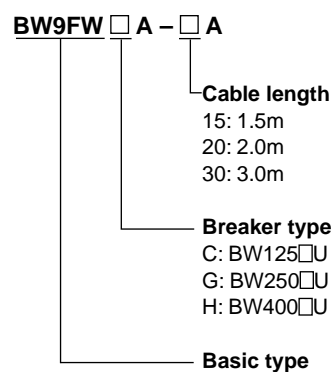
F type handles

MCCB	N type handle
BW125	BW9F0CA
BW250	BW9F0GA
BW400	BW9F0HA

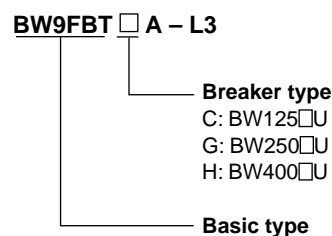
• F type handle



Cable (For F type)



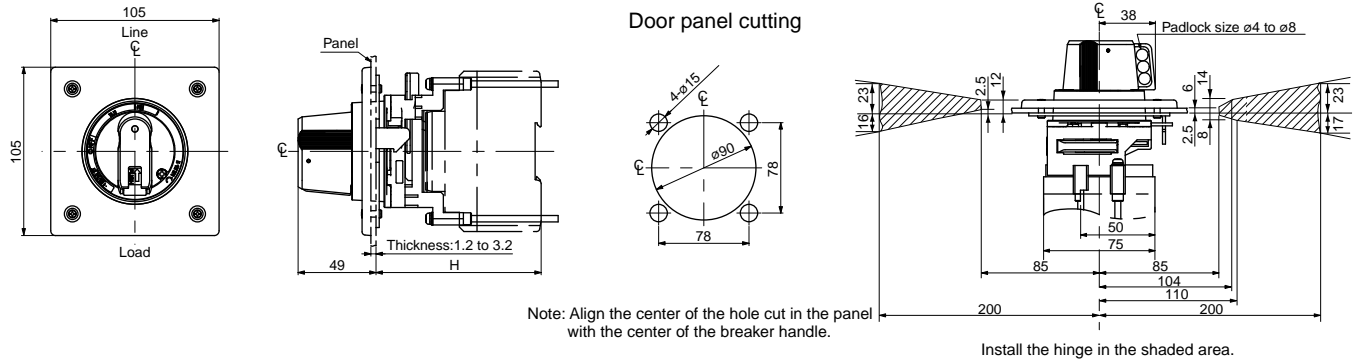
Terminal cover (For F type)



■ Dimensions, mm

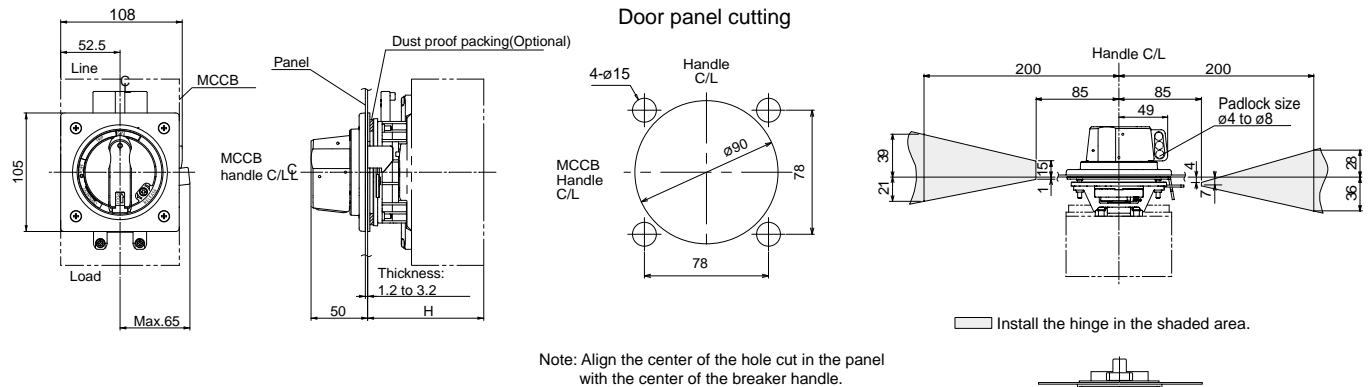
N type handle

• **BZ6N10D**



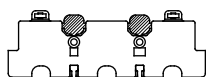
MCCB	Handle type	Dust proof packing	Mounting screw	H (mm)	Mass (kg)
BW32	BZ6N10D	Provided	M4 x 85	103	0.47
BW50	BZ6N10D-X	Provided	Contact FUJI.	111	
BW63	BZ6N10D-P			111	
BW100					

• **BW9N0CA, BW9N0GA**



MCCB	Handle type	Dust proof packing	Mounting screw	H (mm)	Mass (kg)
BW125	BW9N0CA *1	BZ-NP-1C	M4 x 85	103±2	0.56
BW160	BW9N0GA *2	BZ-NP-1C	M4 x 85	103±2	0.56
BW250					

- Notes:
- The handle lock bars do not hold the entire door. Obtain a support bracket for the panel separately.
 - Remove the handle lock bar before opening the door. (Turn the handle in the open direction.) The lock bar will be damaged if the door is opened with force while the lock bar is engaged.
 - Engage the door interlock securely before turning ON the power.
 - *1 The Terminal Cover and Handle cannot be attached at the same time for the BW125JAG-2P or BW125RAGU-2P. Select the BW125JAG-3P or BW125RAGU-3P to use a Handle.
 - *2 The terminal cover will cover the mounting screws for the Breaker. When attaching the terminal cover, a portion of the terminal cover will need to be removed. Remove portion A in the following diagram.

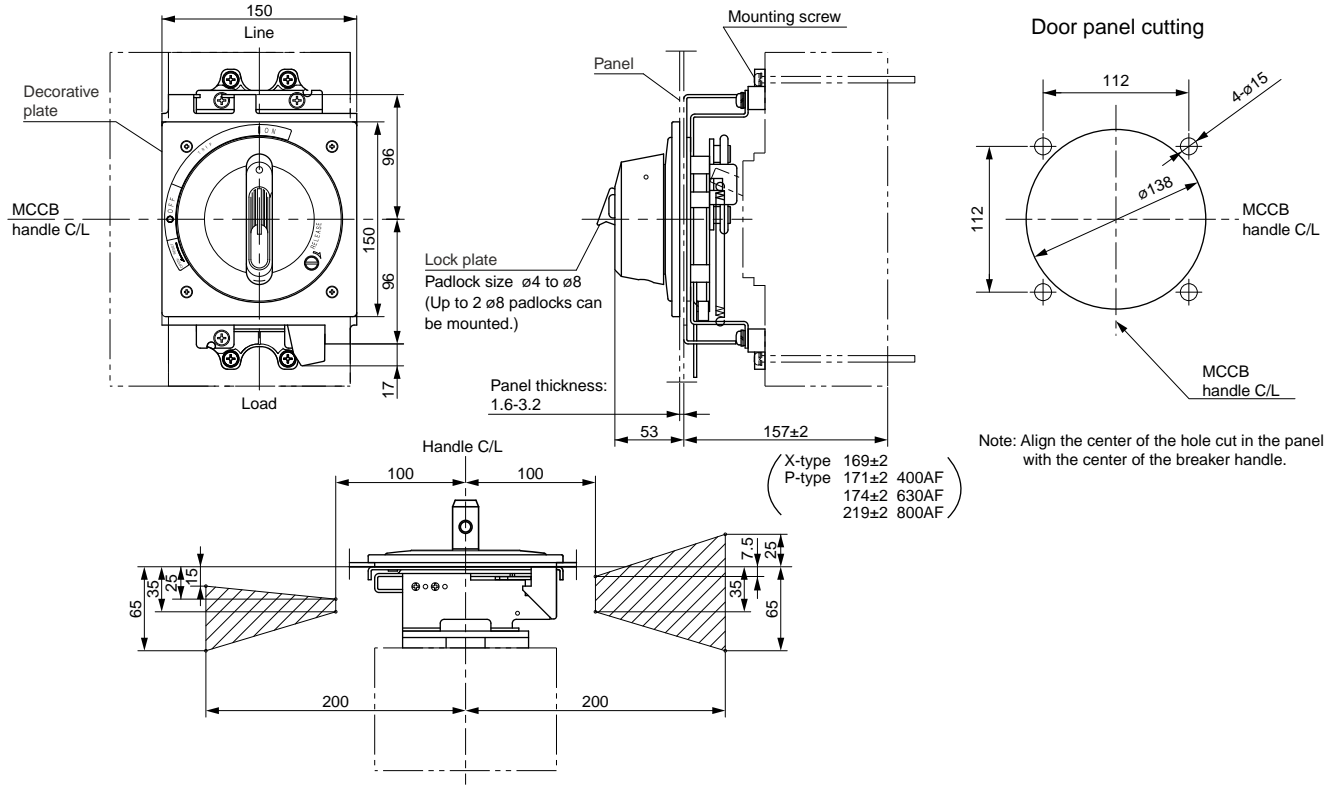


Molded Case Circuit Breakers

G-TWIN series

External accessories

• BW9N0HA, BW9N0JA



Install the door hinge in the shaded area.

MCCB	Handle type	Dust proof packing	Mounting screw	Mass (kg)
BW400	BW9N0HA BW9N0HA-X BW9N0HA-P	BZ-NP-2	M6 x 110 M6 x 115 Contact FUJI.	1.9
BW630 BW800	BW9N0JA BW9N0JA-X BW9N0JA-P	BZ-NP-2	M6 x 110 M6 x 115 Contact FUJI.	1.9

- Notes:
- The handle lock bars do not hold the entire door. Obtain a support bracket for the panel separately.
 - Remove the handle lock bar before opening the door. (Turn the handle in the open direction.)
The lock bar will be damaged if the door is opened with force while the lock bar is engaged.
 - Engage the door interlock securely before turning ON the power.
 - Not available for side mounting.

Molded Case Circuit Breakers

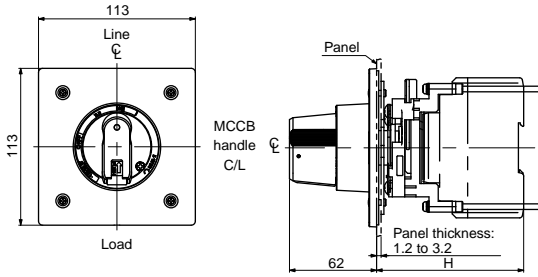
G-TWIN series

External accessories

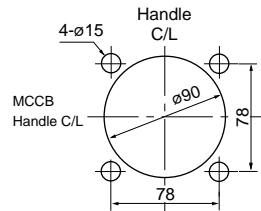
■ Dimensions, mm

V type handle

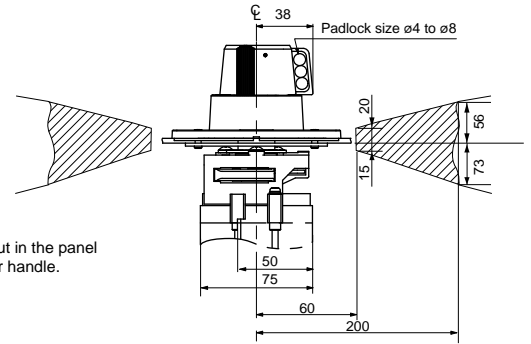
• BZ6V10D



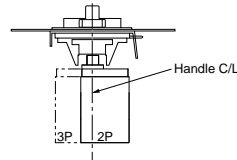
Door panel cutting



Door hinge installation area



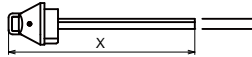
Note: Align the center of the hole cut in the panel with the center of the breaker handle.



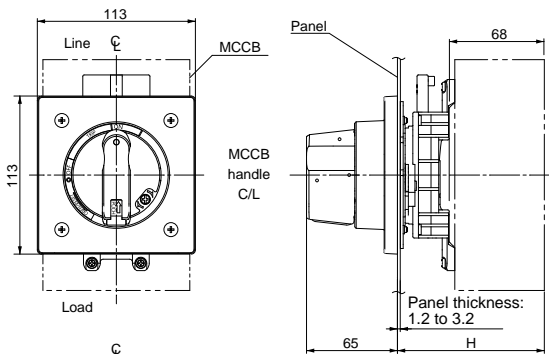
Install the door hinge in the shaded area.

Optional shaft BZ6VS1D

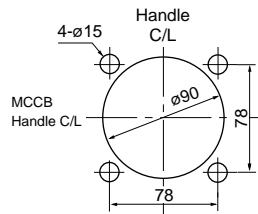
X = H - 105



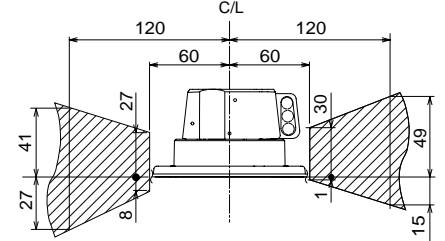
• BW9V0CA, BW9V0GA



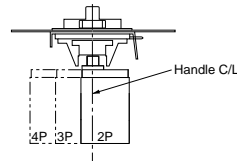
Door panel cutting



Door hinge installation area



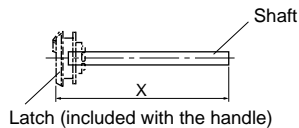
Note: Align the center of the hole cut in the panel with the center of the breaker handle.



Install the door hinge in the shaded area.

Optional shaft BW9VSG0

X = H - 95



06

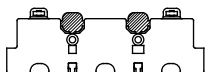
Molded Case Circuit Breakers

G-TWIN series

External accessories

MCCB	Handle type	Optional shaft	Standard type H	With the optional shaft (X=154)		Mounting screw	Mass (kg)
				H	Area in which the hinge with H can be installed		
BW32 BW50 BW63 BW100	BZ6V10D	BZ6VS1D	105±2	250±2	140 to 250	M4 x 80	0.64
	BZ6V10D-X		113±2	258±2	150 to 258	Contact FUJI.	0.64
	BZ6V10D-P		113±2	258±2	150 to 258	Contact FUJI.	0.64
BW125	BW9V0CA	BW9VSG0	105±2	250±2	140 to 250	M4 x 85	0.67
BW160*2 BW250*2	BW9V0GA		105±2	250±2	140 to 250	M4 x 85	0.67

- Notes:
- The handle lock bars do not hold the entire door. Obtain a support bracket for the panel separately.
 - Remove the handle lock bar before opening the door. (Turn the handle in the open direction.)
The lock bar will be damaged if the door is opened with force while the lock bar is engaged.
 - Engage the door interlock securely before turning ON the power.
 - Not available for side mounting.
- *1 The Terminal Cover and Handle cannot be attached at the same time for the BW125JAG-2P or BW125RAGU-2P. Select the BW125JAG-3P or BW125RAGU-3P to use a Handle.
- *2 The terminal cover will cover the mounting screws for the Breaker. When attaching the terminal cover, a portion of the terminal cover will need to be removed. Remove portion A in the following diagram.

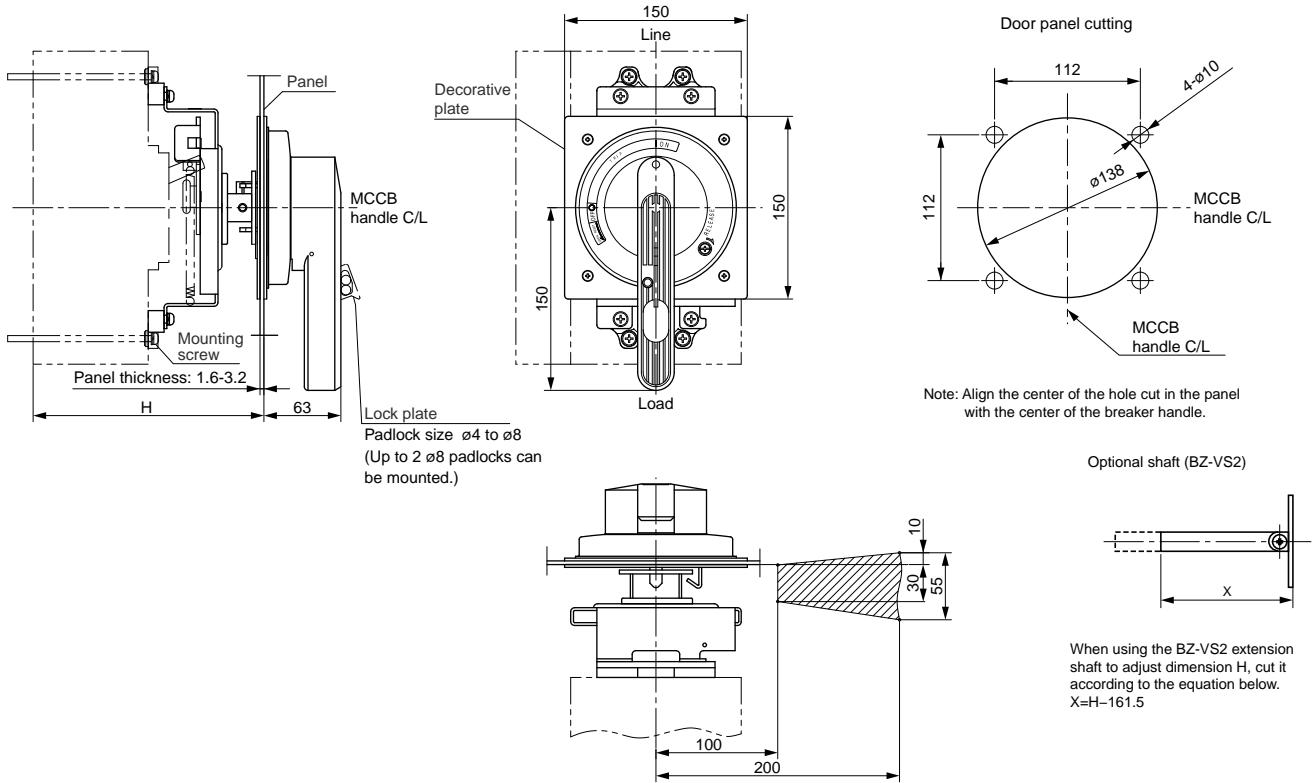


Molded Case Circuit Breakers

G-TWIN series

External accessories

• BW9V0HA, BW9V0JA



Install the door hinge in the shaded area.

MCCB	Handle type	Optional shaft	Standard type H	With the optional shaft (X=154)		Mass (kg)
				H	Area in which the hinge with H can be installed	
BW400	BW9V0HA	BZ-VS2	190±2	250±2	202 to 250	2.2
	BW9V0HA-X		202±2	262±2	214 to 262	
	BW9V0HA-P		204±2	264±2	216 to 264	
BW630	BW9V0JA	BZ-VS2	190±2	250±2	202 to 250	2.2
	BW9V0JA-X		202±2	262±2	214 to 262	
	BW9V0JA-P		207±2	267±2	219 to 269	
BW800	BW9V0JA	BZ-VS2	190±2	250±2	202 to 250	2.2
	BW9V0JA-X		202±2	262±2	214 to 262	
	BW9V0JA-P		252±2	312±2	264 to 312	

- Notes:
- The handle lock bars do not hold the entire door. Obtain a support bracket for the panel separately.
 - Remove the handle lock bar before opening the door. (Turn the handle in the open direction.)
The lock bar will be damaged if the door is opened with force while the lock bar is engaged.
 - Engage the door interlock securely before turning ON the power.
 - Not available for side mounting.

Molded Case Circuit Breakers

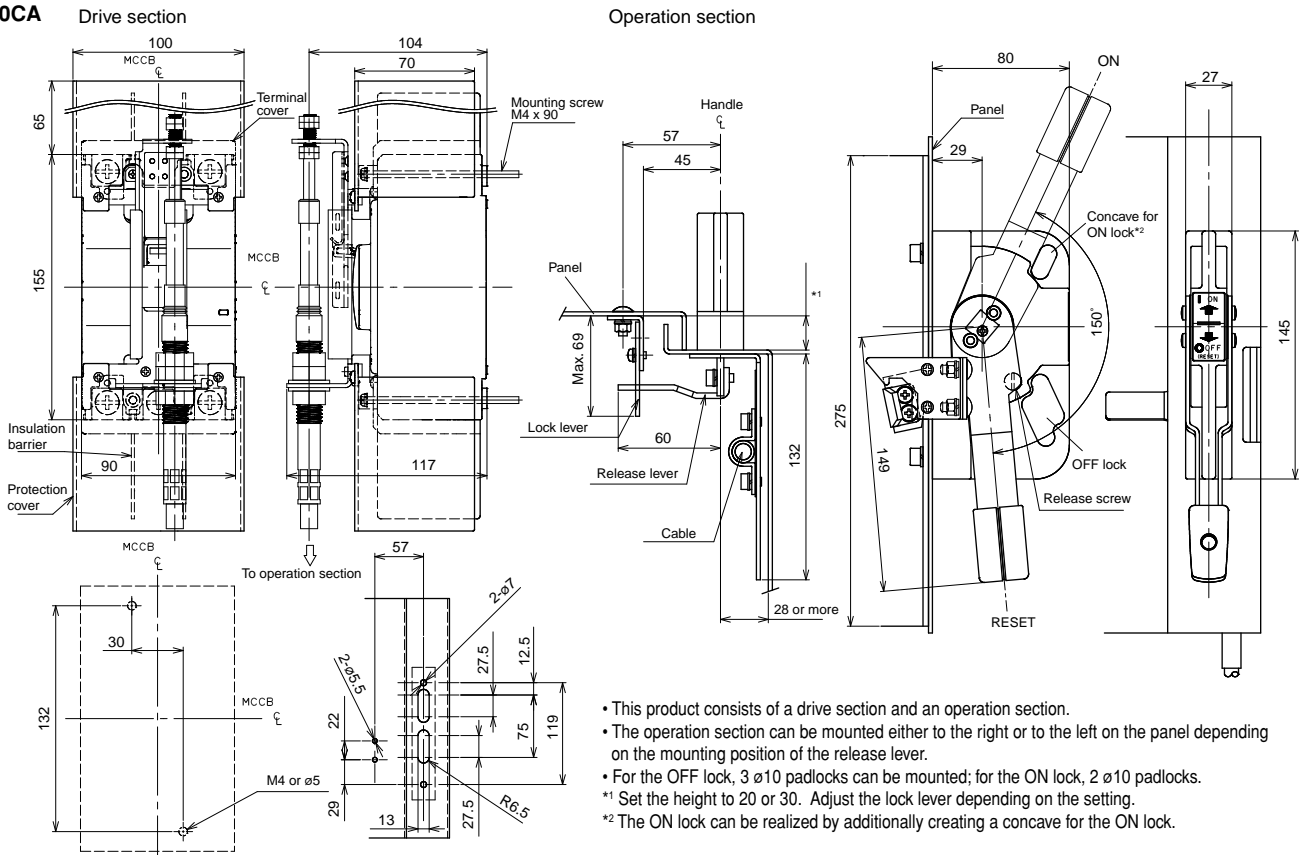
G-TWIN series

External accessories

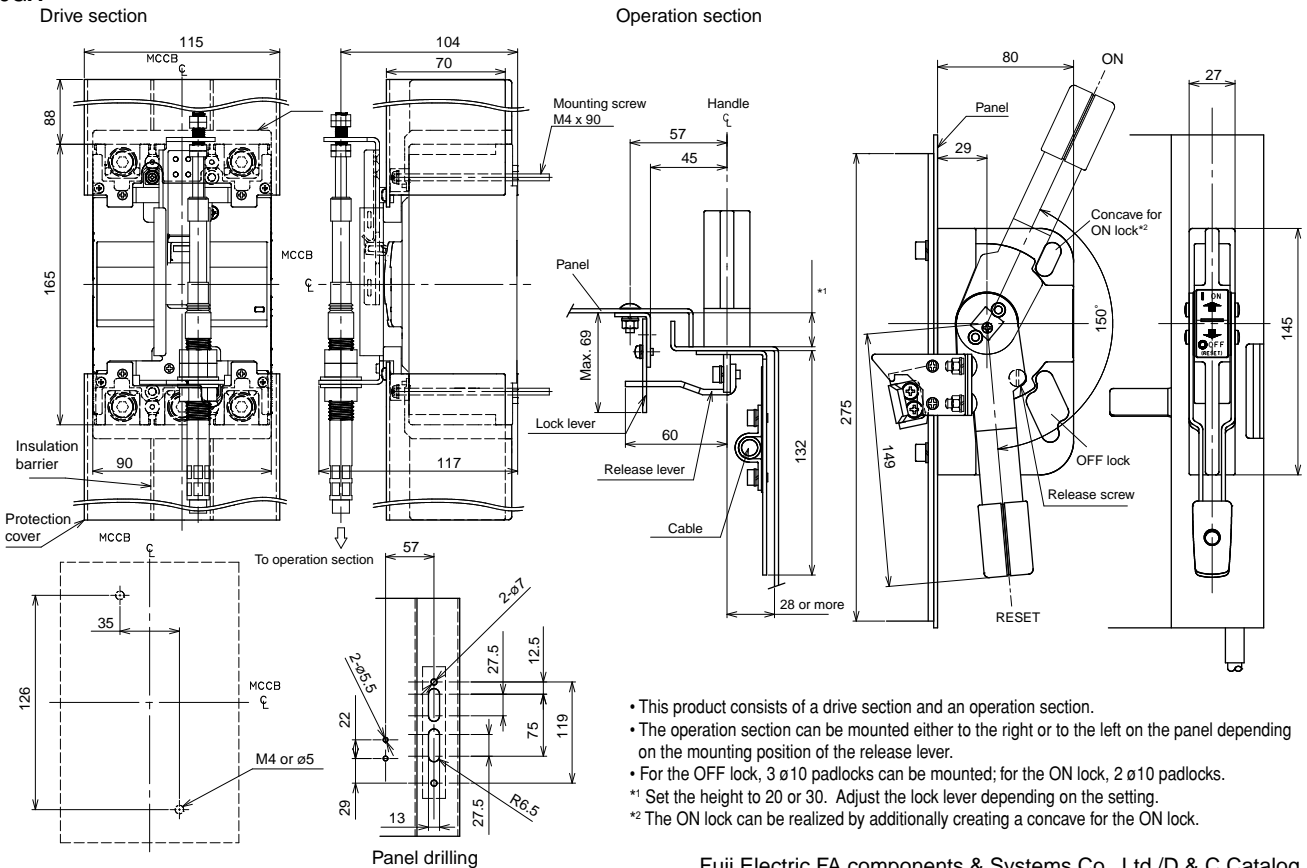
■ Dimensions, mm

F type handle

• BW9F0CA



• BW9F0GA

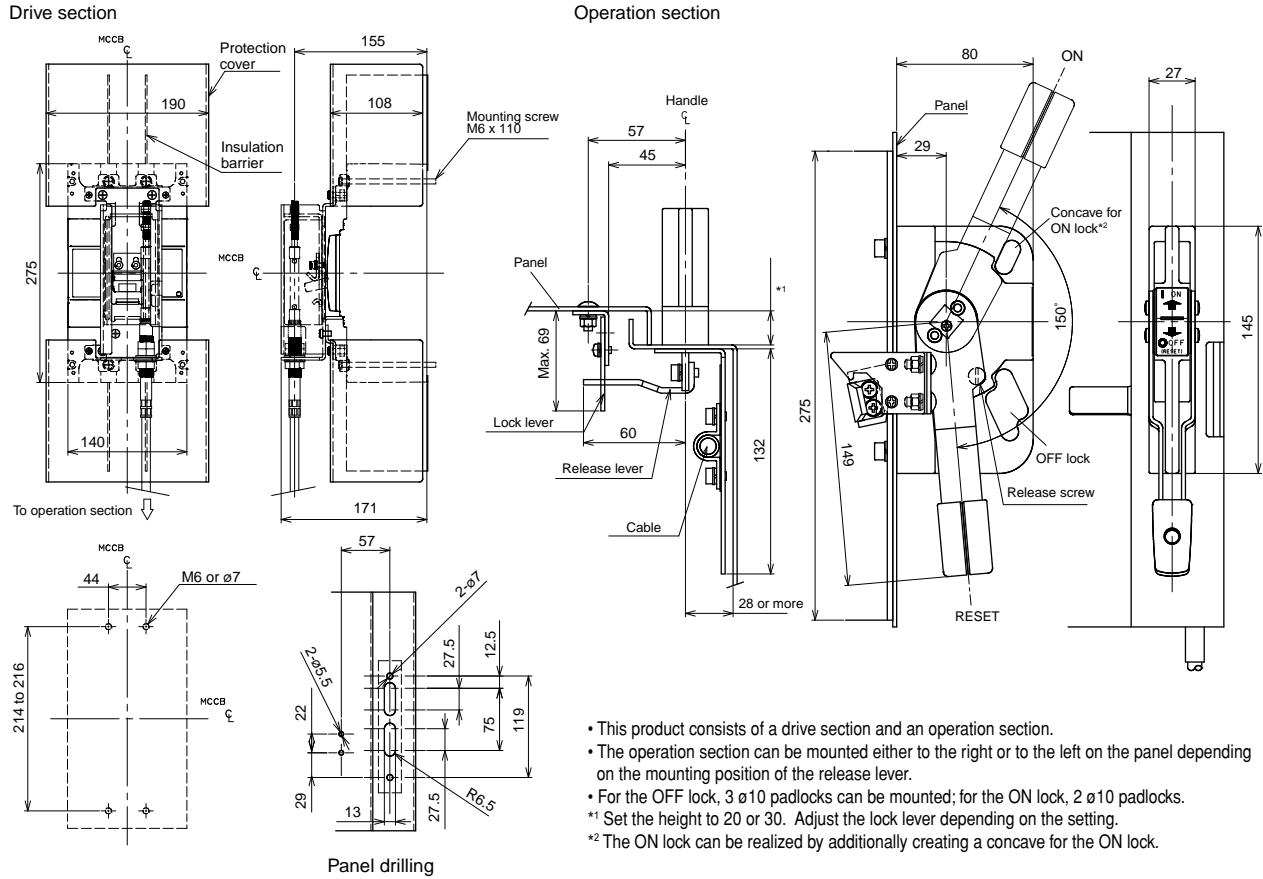


Molded Case Circuit Breakers

G-TWIN series

External accessories

• BW9F0HA



- This product consists of a drive section and an operation section.
- The operation section can be mounted either to the right or to the left on the panel depending on the mounting position of the release lever.
- For the OFF lock, 3 ø10 padlocks can be mounted; for the ON lock, 2 ø10 padlocks.
- *1 Set the height to 20 or 30. Adjust the lock lever depending on the setting.
- *2 The ON lock can be realized by additionally creating a concave for the ON lock.

06

MCCB *	Handle type	Cable		Terminal cover
		Type	Length (m)	
BW125JAGU-3P BW125RAGU-2P BW125RAGU-3P	BW9F0CA	BW9FWCA-15A BW9FWCA-20A BW9FWCA-30A	1.5 2.0 3.0	BW9FBTCA-L3
BW250EAGU-2P BW250EAGU-3P BW250JAGU-2P BW250JAGU-3P BW250RAGU-2P BW250RAGU-3P	BW9F0GA	BW9FWGA-15A BW9FWGA-20A BW9FWGA-30A	1.5 2.0 3.0	BW9FBTGA-L3
BW400EAGU-2P BW400EAGU-3P BW400SAGU-2P BW400SAGU-3P BW400RAGU-2P BW400RAGU-3P BW400HAGU-2P BW400HAGU-3P	BW9F0HA	BW9FWHA-15A BW9FWHA-20A BW9FWHA-30A	1.5 2.0 3.0	BW9FBTHA-L3

Note: * Not available for BW125JAGU-2P

Molded Case Circuit Breakers

G-TWIN series

External accessories

Steel enclosures

■ Description

Steel enclosures are available in three types — two with V-type handle which allows the operation from the outside and other with the operating handle of the breaker extending from it to allow it to be directly switched ON or OFF from outside the enclosure.

Enclosures with V-type handles are provided with a door interlocking mechanism which prevents the door from being opened in the ON condition.

Knockout holes for wiring use are provided as shown in the diagram.



■ Type of enclosures

MCCB	Enclosure		
	Standard *1	With V-type handle Dustproof *1*2	Rainproof *1*2
BW32 BW50 BW63	BZ6C10C2 *3 BZ6C10C3	BW9UVBA-3A *3	BW9UWBA-3A *3
BW100	BZ6C25C2 *3 BZ6C25C3 *3	BW9UVBA-3B *3	BW9UWBA-3B *3
BW125	BW9UCCA-2 BW9UCCA-3	BW9UVCA-3	BW9UWCA-3
BW250	BW9UCGA-3	BW9UVGA-3	BW9UWGA-3
BW400	BZ-C60B	BW9UVHA-3	BW9UWHA-3
BW630 BW800	BZ-C70B	BW9UVJA-3	—

*1 No models are available for four-pole products.

*2 The appearance of dust-proof and rain-proof models differs from the photograph (400A frames and higher).

*3 Combination with external accessories(R) is not possible.

■ Ordering information

Specify the following:

1. Type number of enclosures

■ Dimensions, mm

Fig.1 Standard

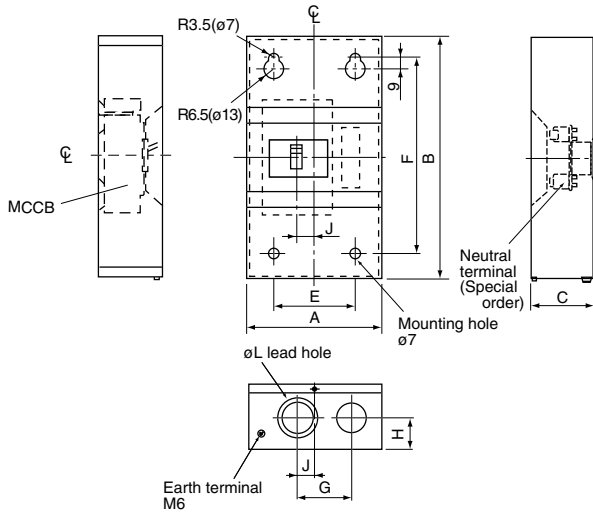


Fig.2 With V type handle
 BW9UVBA-3A, BW9UVBA-3B
 BW9UVCA-3, BW9UVGA-3

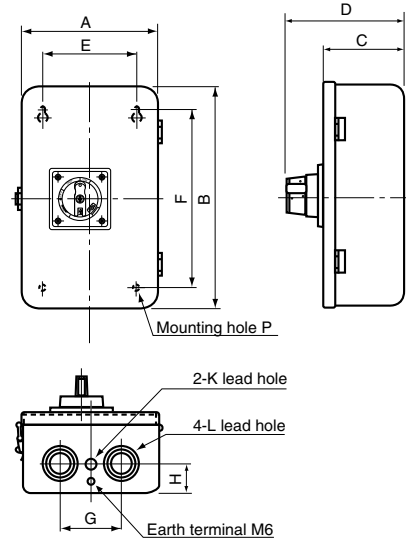
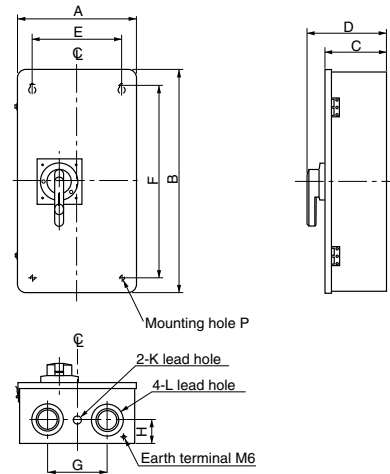
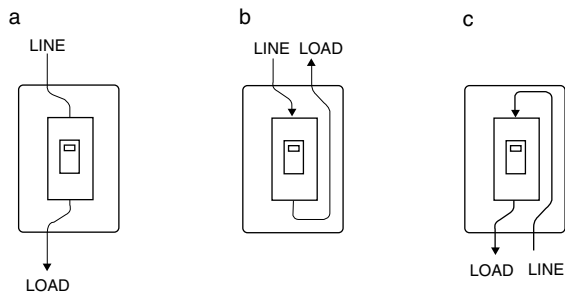


Fig.3. With V type handle
 BW9UVHA-3, BW9UVJA-3



■ Connection method diagrams



Type	Connection	Fig.	A	B	C	D	E	F	G	H	J	K	L	P		
BZ6C10C2	a, b, c	1	135	225	95	-	90	170	65	40	25	-	ø35, ø22	-		
BZ6C10C3																
BZ6C25C2			200	320	95	-	120	240	80	40	25	-	ø45, ø30	-		
BZ6C25C3																
BW9UCCA-2			200	320	103	-	120	240	80	40	25	-	ø45, ø30	-		
BW9UCCA-3																
BW9UCGA-3			400	750	175	-	300	650	200	80	100	-	ø106, ø78, ø63	-		
BZ-C60B																
BZ-C70B			2	1	180	300	114	178.5	100	220	70	40	-	-	ø28, ø35, ø43	ø7
BW9UVBA-3A																
BW9UVBA-3B	250	400			142	206.5	170	320	110	50	-	ø23	ø35, ø52, ø63	ø9		
BW9UVCA-3																
BW9UVGA-3	400	750			206	269	300	650	200	80	-	ø28	ø63, ø78, ø106	ø12		
BW9UVHA-3																
BW9UVJA-3	3	1	400	750	206	269	300	650	200	80	-	ø28	ø63, ø78, ø106	ø12		
BW9UVJA-3																

Molded Case Circuit Breakers

G-TWIN series

External accessories

Terminal covers

■ Description

These terminal covers are used as guards to prevent accidental touch with live line terminations. These terminal covers can be fitted to either line or load side.

● Up to 400AF

Short type: BW9BT A-S

- Snap-on fitting

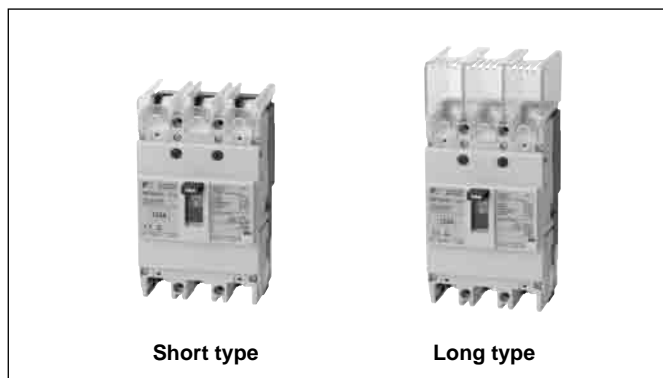
Long type: BW9BT A-L

- Crimp connection use


● 630, 800AF

Long type: BW9BTJA-L

- Transparent



Long type

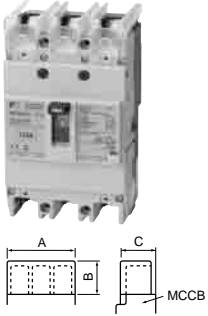
Type		No. of poles	MCCB	Dimensions (mm)			Packing quantity	Appearance
Transparent	Gray			A	B	C		
BW9BTAA-L2	BW9BTAA-L2W	2	BW32□-2P BW50□-2P BW63□-2P BW100□-2P	50	40	53	2	<ul style="list-style-type: none"> • Preventing exposure of live section when amplifier's terminals are connected • Snap-on mounting 
BW9BTAA-L3	BW9BTAA-L3W	2, 3	BW32□-3P BW50□-3P BW63□-3P BW100□-3P	75	40	53	2	
BW9BTCA-L2	BW9BTCA-L2W	2	BW125JAG-2P	60	40	66.5	2	
BW9BTCA-L3	BW9BTCA-L3W	2, 3	BW50HAG-2P BW50HAG-3P BW125RAG-2P BW125HAG-2P BW125□-3P	90	40	66.5	2	
BW9BTCA-C3	—	2, 3	BW125RAG-2P BW125□-3P	90	60	66.5	2	
BW9BTCA-L4	BW9BTCA-L4W	4	BW125JAG-4P BW125RAG-4P	120	40	66.5	2	
BW9BTGA-L3 *1	BW9BTGA-L3W *1	2, 3	BW160□-2P BW160□-3P	105	50	66.5	2	
BW9BTGA-L4 *1	BW9BTGA-L4W *1	4	BW160□-4P	140	50	66.5	2	
BW9BTGA-C3	—	2, 3	BW250□-2P BW250□-3P	105	75	66.5	2	
BW9BTGA-L3 *1	BW9BTGA-L3W *1	2, 3	BW250□-2P BW250□-3P	105	50	66.5	2	
BW9BTGA-L4 *1	BW9BTGA-L4W *1	4	BW250□-4P	140	50	66.5	2	
BW9BTHA-L3 *2	BW9BTHA-L3W *1	2, 3	BW400□-2P BW400□-3P	172	110	98	2	
BW9BTHA-L4 *2	—	4	BW400□-4P	220	110	98	2	
BW9BTJA-L3	BW9BTJA-L3W	3	BW630□-3P BW800□-3P	230	135	97.5	2	
BW9BTJA-L4	BW9BTJA-L4W	4	BW630□-4P BW800□-4P	280	155	98	2	

Molded Case Circuit Breakers

G-TWIN series

External accessories

Short type

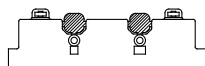
Type		No. of poles	MCCB	Dimensions (mm)			Packing quantity	Appearance
Transparent	Gray			A	B	C		
BW9BTAA-S2	BW9BTAA-S2W	2	BW32□-2P BW50□-2P BW63□-2P BW100□-2P	50	10	53	2	<ul style="list-style-type: none"> Preventing exposure of live section when amplifier's terminals are connected Snap-on mounting 
BW9BTAA-S3	BW9BTAA-S3W	2, 3	BW32□-3P BW50□-3P BW63□-3P BW100□-3P	75	10	53	2	
BW9BTCA-S2	BW9BTCA-S2W	2	BW125JAG-2P	60	8	66.5	2	
BW9BTCA-S3	BW9BTCA-S3W	2, 3	BW50HAG-2P BW50HAG-3P BW125RAG-2P BW125HAG-2P BW125□-3P	90	8	66.5	2	
BW9BTCA-S4	BW9BTCA-S4W	4	BW125JAG-4P BW125RAG-4P	120	8	66.5	2	
BW9BTGA-S3 * ¹	BW9BTGA-S3W * ¹	2, 3	BW160□-2P BW160□-3P BW250□-2P BW250□-3P	105	8	66.5	2	
BW9BTGA-S4 * ¹	BW9BTGA-S4W * ¹	4	BW160□-4P BW250□-4P	140	8	66.5	2	
BW9BTHA-S3 * ³	BW9BTHA-S3W * ²	2, 3	BW400□-2P BW400□-3P	140	65	98	2	
BW9BTHA-S4 * ³	BW9BTHA-S4W * ²	4	BW400□-4P	185	65	98	2	

Notes: • A gray-white terminal cover comes standard with the Global Series 125AF and 250AF.

*¹ When using the external operating handle, part of the terminal cover () must be cut away.

*² Crimp terminals for 325 mm² are not available.

*³ This type of cover can be mounted on the 400AF when flat terminals are not used.



Molded Case Circuit Breakers

G-TWIN series

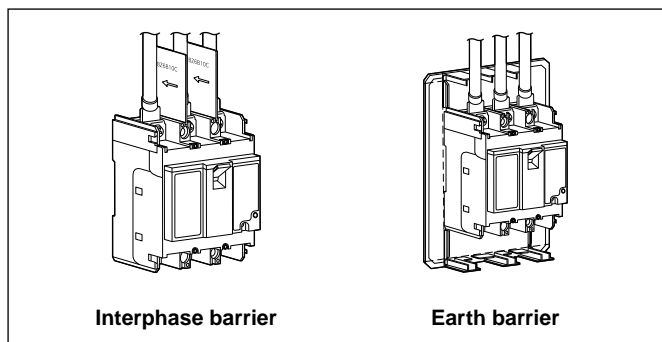
External accessories

Insulation barriers

■ Description

The interphase barriers are provided on frame size of 32AF to 800AF breakers for front mounting. The barriers are installed in the molded slots between terminals.

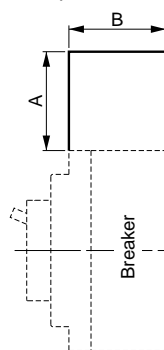
The earth barrier is used to increase the insulation with the mounting plate surface when two crimp terminals are wired. Installation of these barriers after wiring is possible even when an external accessory is installed.



Interphase barrier

MCCB	Interphase barrier				
	Type	Dimensions (mm)		Packing quantity	Mass (g)
		A	B		
BW32 BW50AAG, EAG BW50SAG, RAG BW63 BW100	BZ6B10C	50	49	4	23
BW50HAG, BW125	BW9BPCA	50	60	2	15
BW160 BW250	BW9BPGA	80	60	2	25
BW400 BW630 BW800	B-43A	105	95	4	130

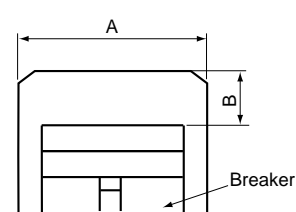
Interphase barrier



Earth barrier

MCCB	Earth barrier				
	Type	Dimensions (mm)		Packing quantity	Mass (g)
		A	B		
BW32□-2P BW50□-2P BW63□-2P BW100□-2P	BZ6BL10C2	100 (50, 75) ^{*1}	43 (30) ^{*1}	1	33
BW32□-3P BW50□-3P BW63□-3P BW100□-3P	BZ6BL10C3	125 (75, 100) ^{*1}	43 (30) ^{*1}	1	41

Earth barrier



Note: ^{*1} Can be cut to dimensions

Padlocking device and handle locking cover

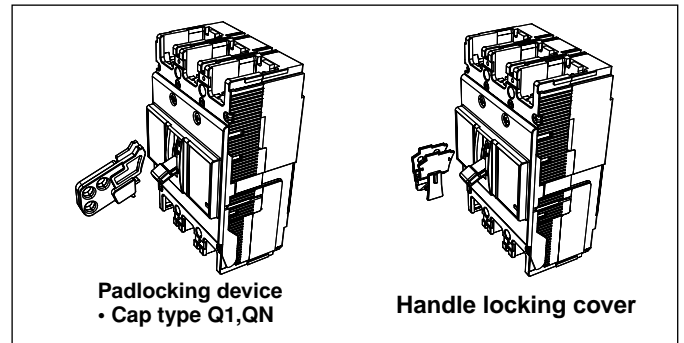
■ **Description**

• **Padlocking device**

These padlocking device lock the Breaker handle in the OFF position. Use a commercially available padlock with a shackle diameter of 3.5 to 5mm (5mm for the BZ6L10CA).

• **Handle locking covers (Order Separately)**

These simple handle locking covers can be easily installed by the user. Tripping is possible while the Breaker is locked ON.



MCCB	Padlocking device			Handle locking cover
	Q1: Cap type	QN: Scissors type	Q2: Plate type	
BW32 BW50AAG, EAG, SAG, RAG BW63 BW100	BZ6L10CA	—	▲ *1*4	BZ6L10C
BW50HAG, BW125 BW160 BW250	BW9Q1CA *5		BW9Q2CA *3 BW9Q2GA	BW9L1CA
BW400 BW630 BW800	▲ *1	BW9QNHA *2	BW9Q2HA BW9Q2JA	BW9L1HA

Notes:

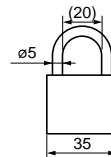
*1 Specify Locks when ordering the Breaker. (▲: Factory-mounted)

*2 ON and OFF locking is possible.

*3 Not applicable to the BW125JA□-2P (models with a width of 60 mm).

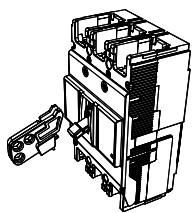
*4 If a padlock is required, use a commercially available padlock with the dimensions shown in the diagram at the right.

*5 Three padlocks with shackles from 3.5 to 8 mm in diameter can be attached.

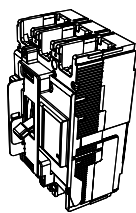


Padlocking device

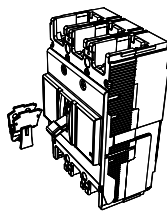
• **Cap type Q1**



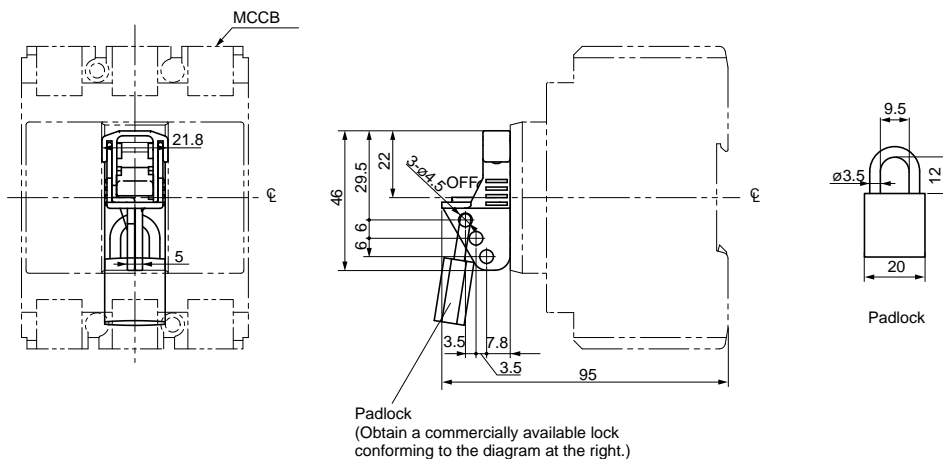
• **Plate type Q2**



Handle locking cover



Q1: BZ6L10CA (OFF-locking Padlocking device)



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