

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

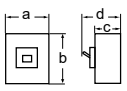
AC415V Icu	50AF
65kA	H53BAM

Molded Case Circuit Breakers

G-TWIN series

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		
		DC	250V	-	2.5/2*1		
			GB14048.2	AC	400V	1.5/1	2.5/2
					230V	2.5/2	5/3
		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.

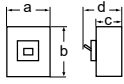
*2 Electrical Appliance and Material Safety Law of Japan

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		
		GB14048.2	DC	250V	-		2.5/2*1		5/3*1		5/3*1		40/20	
				400V	1.5/1		2.5/2		7.5/4		10/5		-	
			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	-	-	-	-	-	-	-	○	○	○		

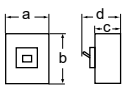
●: Approved ○: Available -: Not available ▲: Factory-mounted accessory
 Note: *1 Specify DC only when ordering circuit breakers for DC circuit.
 *2 Electrical Appliance and Material Safety Law of Japan

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			
		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	-	-	-	-	-	-		

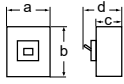
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Note: *1 Specify DC only when ordering circuit breakers for DC circuit.

*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		
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		100	
		c	60		60	
		d	84		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.
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Molded Case Circuit Breakers

G-TWIN series

Wire size and terminal

■ Wire size and crimp terminal

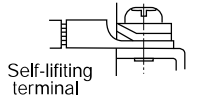
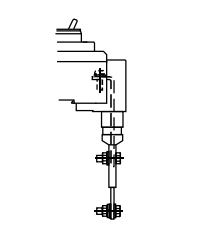
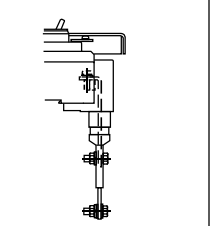
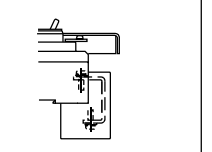
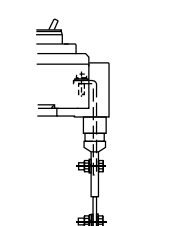
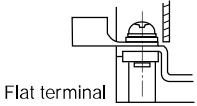
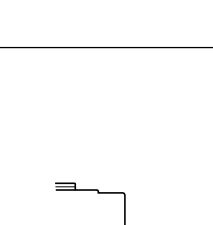
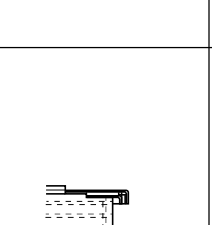

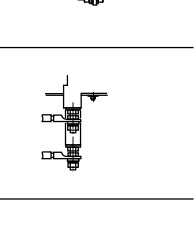

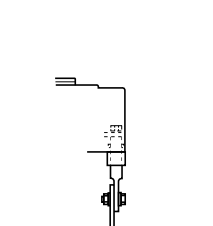
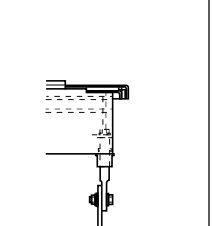

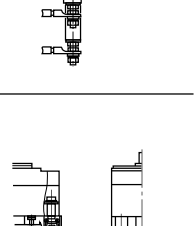

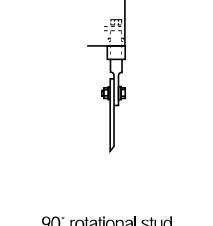
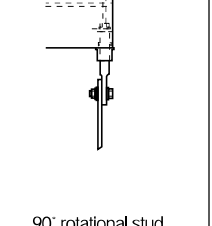

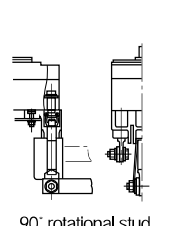
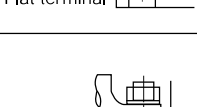
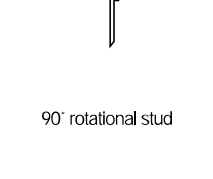
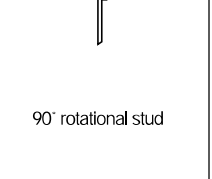

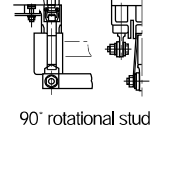
The following is the size recommendations for crimp terminals.

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 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"/>	
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"/>	
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	BW250EAG-3P175 <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	
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.

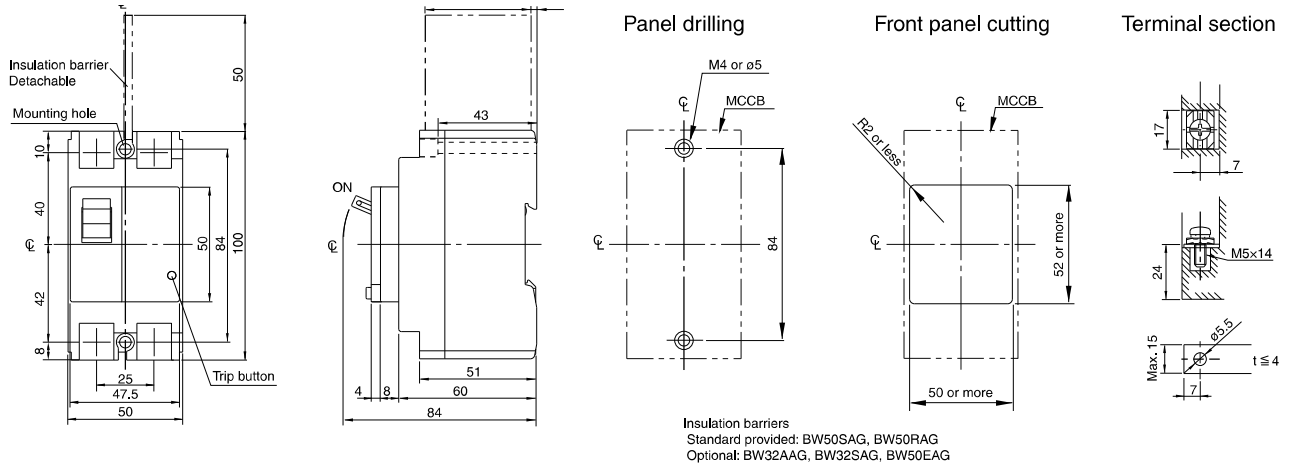
Molded Case Circuit Breakers

G-TWIN series

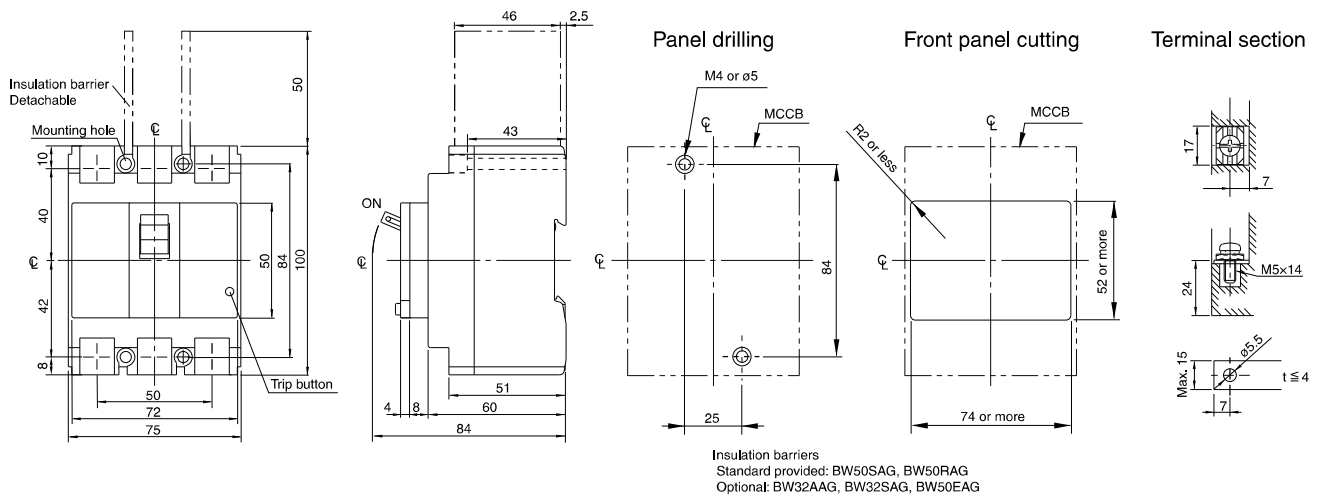
Dimensions / Standard

- Dimensions, mm
- Front mounting, front connection

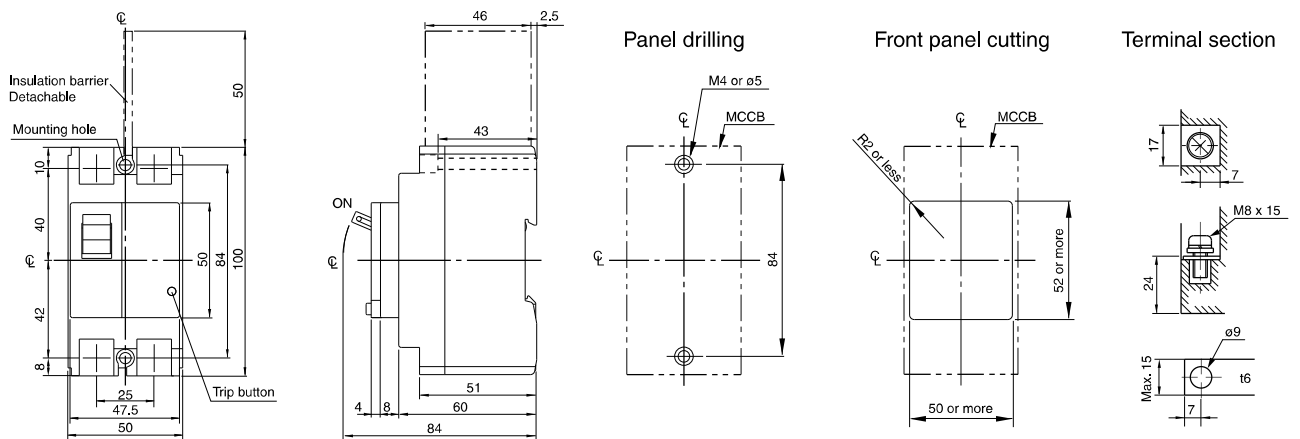
BW32□-2P, BW50□-2P



BW32□-3P, BW50□-3P



BW63□-2P



Molded Case Circuit Breakers

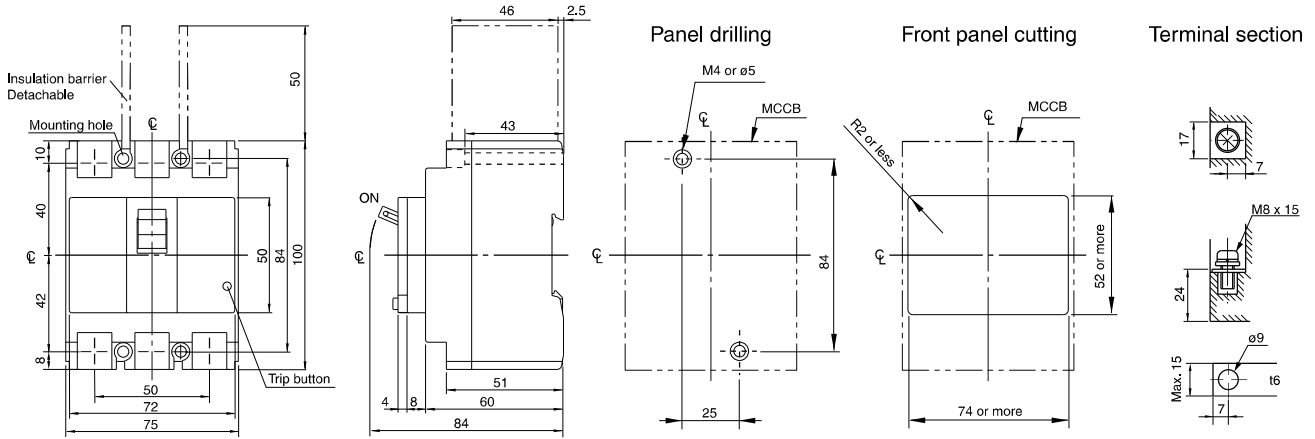
G-TWIN series

Dimensions / Standard

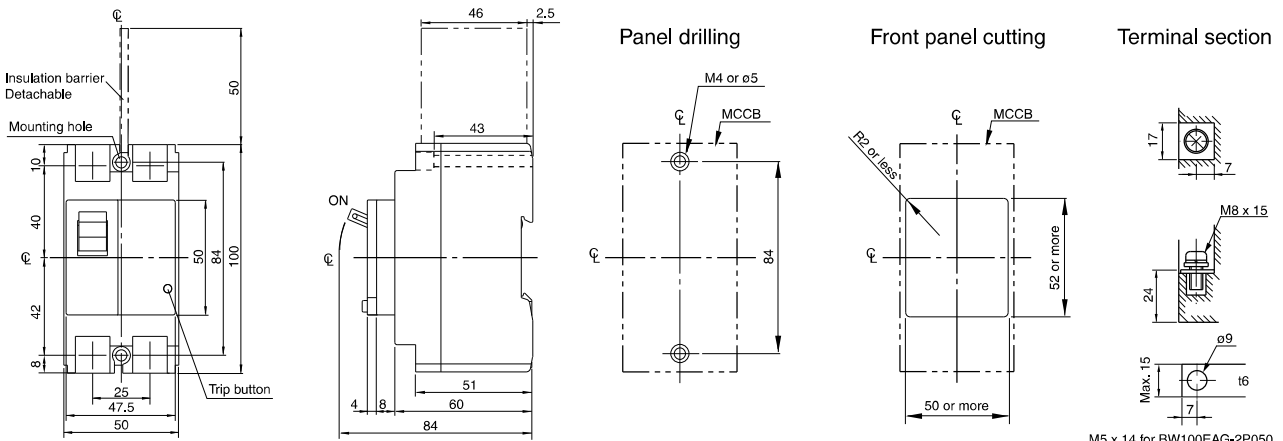
■ Dimensions, mm

● Front mounting, front connection

BW63□-3P

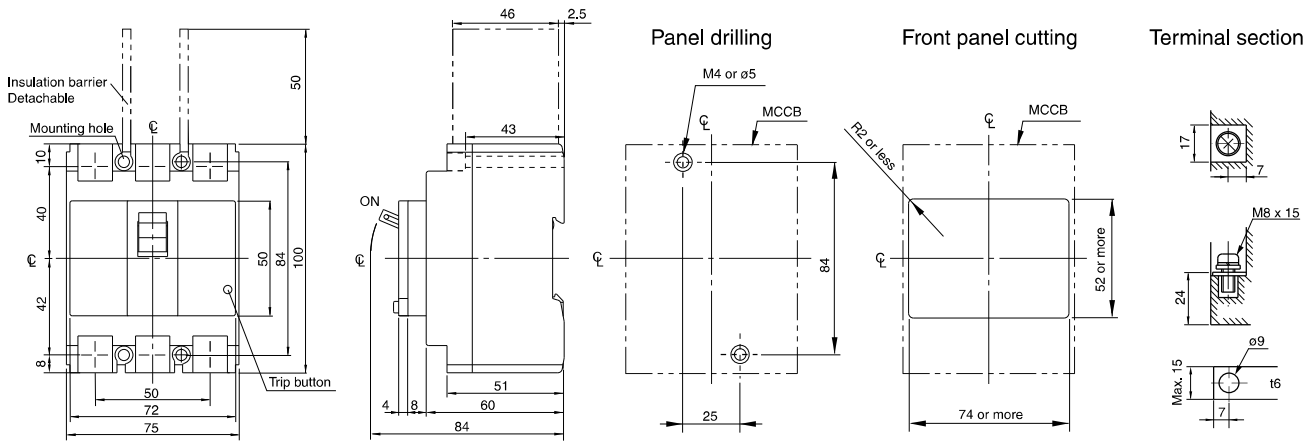


BW100□-2P



M5 x 14 for BW100EAG-2P050

BW100□-3P



Insulation barriers
Standard provided: BW100EAG
Optional: BW100AAG

M5 x 14 for BW100EAG-3P050

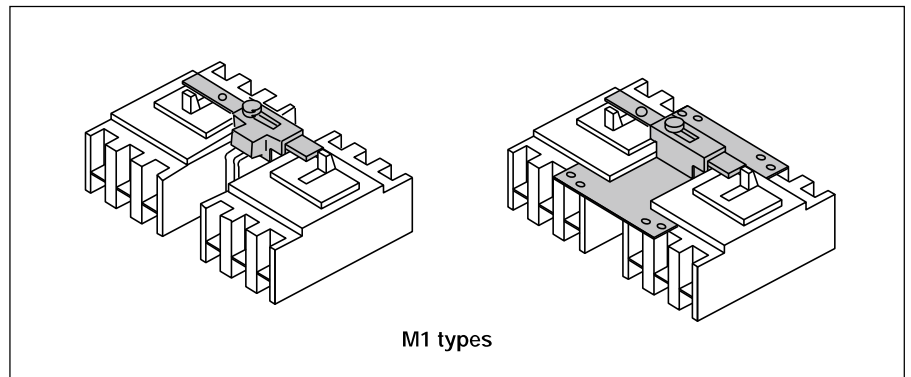
Mechanical interlocking devices

■ 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

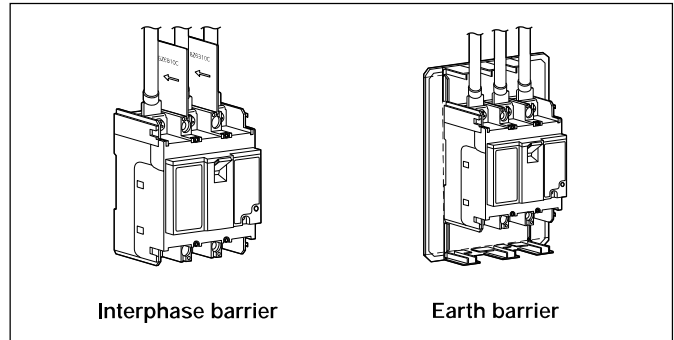
External accessories

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.

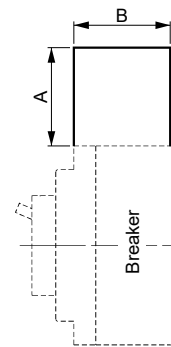
The earth barrier is used to increase the insulation with the mounting plate surface when two crimp terminals are wired. Installation of these barriers after wiring is possible even when an external accessory is installed.



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

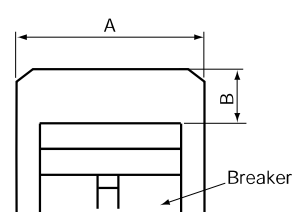
Interphase barrier



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

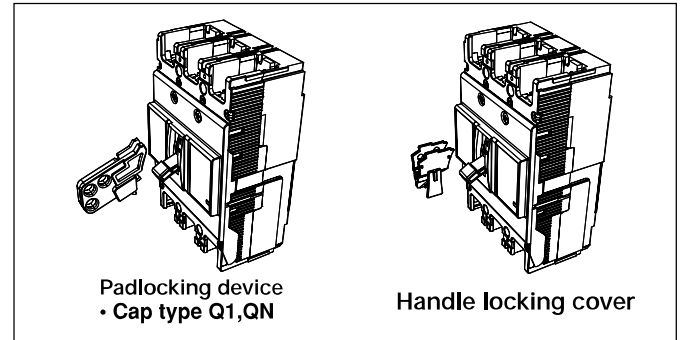
■ Description

• **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	BZ6L10CA	-	▲ *1*4	BZ6L10C
BW50AAG, EAG, SAG, RAG				
BW63				
BW100				
BW50HAG, BW125	BW9Q1CA *5		BW9Q2CA *3	BW9L1CA
BW160			BW9Q2GA	
BW250				
BW400	▲ *1	BW9QNHA *2	BW9Q2HA	BW9L1HA
BW630			BW9Q2JA	
BW800				

Notes:

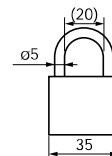
*1 Specify Locks when ordering the Breaker. (▲: Factory-mounted)

*2 ON and OFF locking is possible.

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

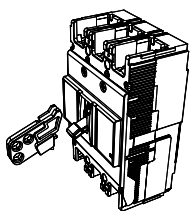
*4 If a padlock is required, use a commercially available padlock with the dimensions shown in the diagram at the right.

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

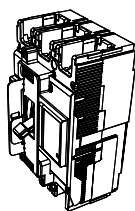


Padlocking device

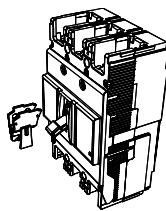
• **Cap type Q1**



• **Plate type Q2**



Handle locking cover



Q1: BZ6L10CA (OFF-locking Padlocking device)

