

Molded Case Circuit Breakers

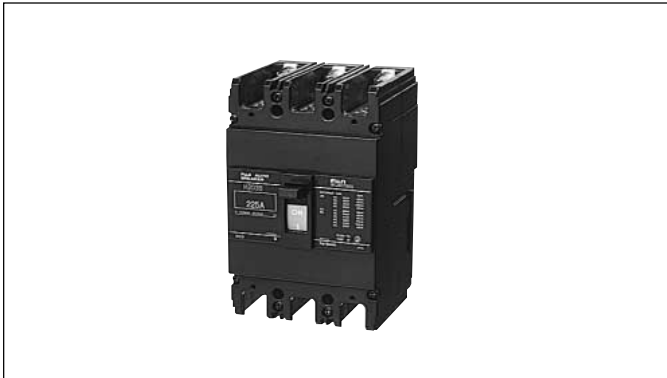
H series

General information

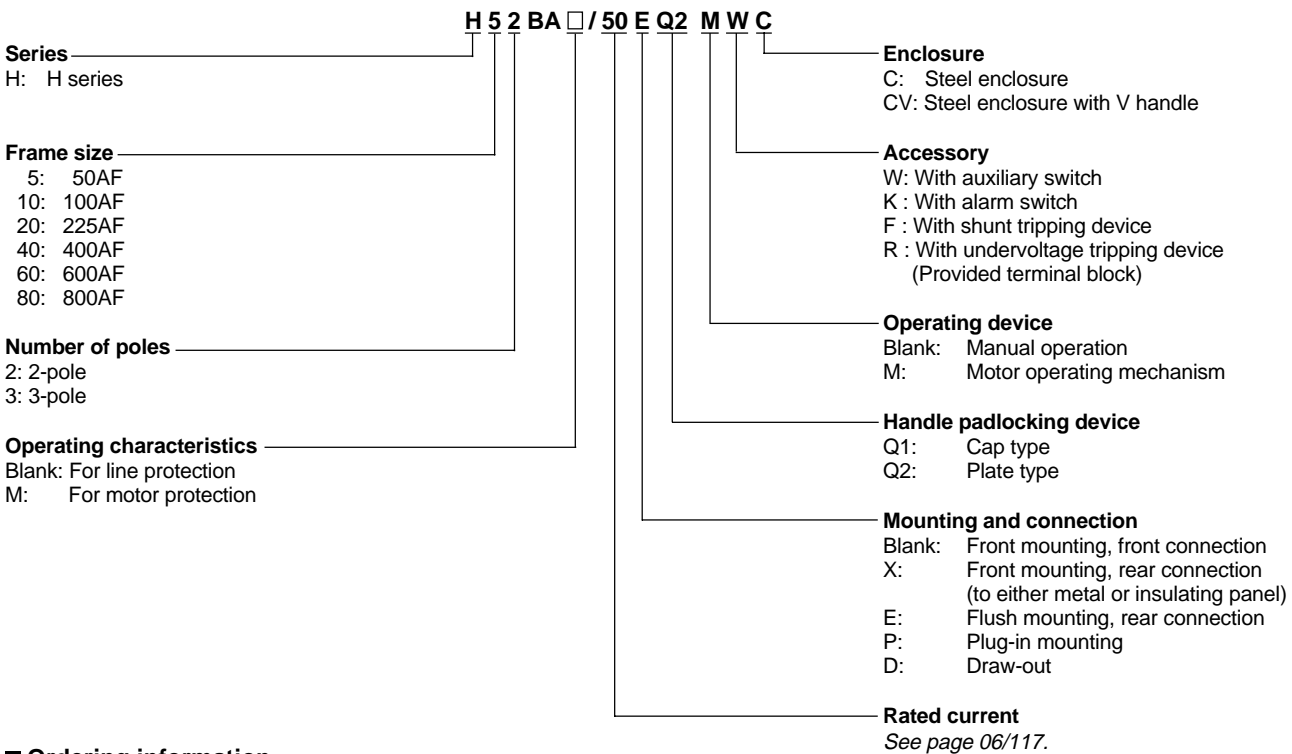
H series

■ **Description**

- Models with high breaking capacities
- Line protection
: 15 to 800A
- Motor protection
: 16 to 45A
- Molded case color : Black



■ **Type number nomenclature**



■ **Ordering information**

Specify the following:

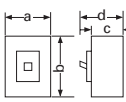
1. Type number
2. Optional accessories
Lead wire or terminal block connection
3. When ordering MCCB with shunt tripping device, undervoltage tripping device or motor operating mechanism, specify rated voltage and frequency.
4. Handle type if required

Molded Case Circuit Breakers

H series

Quick reference guide / Line protection

■ H series/2, 3-pole

Frame			50A		100A		
Pole			2	3	2	3	3
Type			H52BA	H53BA	H102BA	H103BA	H103R
Rated current (A)			15, 20, 30 40, 50		15, 20, 30, 40 50, 60, 75, 100		40, 50, 60 75, 100
Rated insulation voltage Ui (Volts)			AC DC		690 250		660 250
Rated breaking capacity (kA)	IEC 60947-2 [Icu/Ics]* JIS C8201-2-1 Ann.2 [Icu]	600V AC	25/7		25/7		—
		500V AC	35/9		35/9		42
		440V AC	65/17		65/17		85
		415V AC	65/17		65/17		85
		400V AC	65/17		65/17		85
		380V AC	65/17		65/17		100
		230V AC	125/32		125/32		125
		250V DC	40/10		40/10		40
Dimensions (mm)		a	90		90		105
		b	155		155		165
		c	60		60		99
		d	82		82		127
Mass (kg)			Front mounting type		1.1	1.2	2.3
Tripping device			Thermal-magnetic		Thermal-magnetic		Thermal-magnetic
Trip button			Provided		Provided		Provided
Front mounting, front connection	No-mark	●			●		●
		●			●		●
Flush mounting, rear connection	E	●			●		●
	Y	—			—		—
Plug-in mounting	P	●			●		●
	D	—			—		—
Internal accessories			Page 06/126				
Alarm switch		K	BZ-K35B□		BZ-K35B□		BZ-K50B□
Auxiliary switch		W	BZ-W35B□		BZ-W35B□		BZ-W50B□
Undervoltage trip		R	BZ-R35BT		BZ-R35BT		BZ-R50BT
Shunt trip		F	BZ-F35BT		BZ-F35BT		BZ-F50BT
External accessories			Page 06/125				
Motor operating mechanism		M	▲		▲		▲
Padlocking device		Q	▲		▲		▲
Mechanical interlocking device		M1	BZ-M130C-3		BZ-M130C-3		BZ-M140C
Operating handle N type		N	BZ-N30C		BZ-N30C		BZ-N50C
Operating handle V type		V	BZ-V30C		BZ-V30C		BZ-V50C
Steel enclosure		C	BZ-C30B-3		BZ-C30B-3		BZ-C50B
Steel enclosure with V type handle		CV	BZ-CV30C		BZ-CV30C		—
Terminal cover Short		TS	BZ-TS30B-3		BZ-TS30B-3		BZ-TS50B
Terminal cover Long		TB	BZ-TB30B-3		BZ-TB30B-3		BZ-TB50B
Insulation barrier Interphase		B	BZ-B30B		BZ-B30B		BZ-B50B
Insulation barrier Earth		BL	BZ-BL35B		BZ-BL35B		BZ-BL50B

● Available — Not available ▲ Factory-mounted accessory

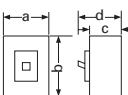
Notes: • The breaking capacity for the 240V, 380V and 415V circuits are equivalent to that of 230V, 400V and 440V, respectively.
• Interphase insulation barriers are standard provided for the front mounting type breakers.
* H103R do not conform to IEC 60947-2.

Molded Case Circuit Breakers

H series

Quick reference guide / Line protection

■ H series/2, 3-pole

Frame			225A			400A							
Pole			2		3		3						
Type			Page 06/110		H202BA		H203BA		H203R		H403R		
Rated current (A)			125, 150, 175 200, 225					125, 150, 175 200, 225			250, 300 350, 400		
Rated insulation voltage Ui (Volts)			AC		690		660		690				
			DC		250		250		250				
Rated breaking capacity (kA)	IEC 60947-2 [Icu/lcs]*		600V AC		25/7		—		—				
	JIS C8201-2-1		500V AC		35/9		42		85				
	Ann.2 [Icu]		440V AC		65/17		85		125				
			415V AC		65/17		85		125				
			400V AC		65/17		85		125				
			380V AC		65/17		100		125				
			230V AC		125/32		125		125				
			250V DC		40/10		40		40				
Dimensions (mm)				a		105		105		140			
Page 06/120				b		165		165		257			
				c		60		99		103			
				d		84		127		146			
Mass (kg)		Front mounting type		1.1		1.3		2.3		5			
Tripping device			Thermal-magnetic							Thermal-magnetic			
Trip button			Provided							Provided			
Front mounting, front connection		No-mark		●				●				●	
rear connection		X		●				●				●	
Flush mounting, rear connection		E		●				●				●	
top & bottom connection		Y		—				—				—	
Plug-in mounting		P		●				●				●	
Draw-out		D		—				—				—	
Internal accessories			Page 06/126										
Alarm switch		K		BZ-K40B□				BZ-K40B□				BZ-K70B□	
Auxiliary switch		W		BZ-W40B□				BZ-W40B□				BZ-W70B□	
Undervoltage trip		R		BZ-R40BT				BZ-R40BT				BZ-R70BT	
Shunt trip		F		BZ-F40BT				BZ-F40BT				BZ-F70BT	
External accessories			Page 06/125										
Motor operating mechanism		M		▲				▲				▲	
Padlocking device		Q		▲				▲				▲	
Mechanical interlocking device		M1		BZ-M140C				BZ-M140C				BZ-M160C	
Operating handle N type		N		BZ-N40C				BZ-N50C				BZ-N60C	
Operating handle V type		V		BZ-V40C				BZ-V50C				BZ-V60C	
Steel enclosure		C		BZ-C40B				BZ-C50B				BZ-C60B	
Steel enclosure with V type handle		CV		—				—				BZ-CV60B	
Terminal cover Short		TS		BZ-TS40B				BZ-TS50B				—	
Terminal cover Long		TB		BZ-TB40B				BZ-TB50B				BZ-TB60B	
Insulation barrier Interphase		B		BZ-B40B				BZ-B50B				B-43A	
Insulation barrier Earth		BL		BZ-BL40B				BZ-BL50B				—	

● Available — Not available ▲ Factory-mounted accessory

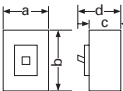
Notes: • The breaking capacity for the 240V, 380V and 415V circuits are equivalent to that of 230V, 400V and 440V, respectively.
• Interphase insulation barriers are standard provided for the front mounting type breakers.
* H203R, H403R do not conform to IEC 60947-2.

Molded Case Circuit Breakers

H series

Quick reference guide / Line protection

■ H series/3-pole

Frame			600A	800A
Pole			3	3
Type			H603R	H803R
Rated current (A)			500, 600	700, 800
Rated insulation voltage Ui (Volts)			AC 690 DC 250	690 250
Rated breaking capacity (kA)	IEC 60947-2 [Icu/Ics]* JIS C8201-2-1 Ann.2 [Icu]	600V AC	—	—
		500V AC	85	85
		440V AC	125	125
		415V AC	125	125
		400V AC	125	125
		380V AC	125	125
		230V AC	125	125
		250V DC	40	40
Dimensions (mm)		a	210	210
		b	275	275
		c	103	103
		d	146	146
Mass (kg) Front mounting type			9	10
Tripping device			Thermal-magnetic	Thermal-magnetic
Trip button			Provided	Provided
Front mounting, front connection	No-mark	●	●	
		●	●	
Flush mounting, rear connection	E	●	●	
		—	—	
Plug-in mounting	P	●	●	
		●	●	
Draw-out	D	●	●	
		●	●	
Internal accessories				
Alarm switch			K	BZ-K70B□
Auxiliary switch			W	BZ-W70B□
Undervoltage trip			R	BZ-R70BT
Shunt trip			F	BZ-F70BT
External accessories				
Motor operating mechanism			M	▲
Padlocking device			Q	▲
Mechanical interlocking device			M1	BZ-M170C
Operating handle N type			N	BZ-N70C
Operating handle V type			V	BZ-V70C
Steel enclosure			C	BZ-70B
Steel enclosure with V type handle			CV	BZ-CV70C
Terminal cover Short			TS	—
Terminal cover Long			TB	BZ-TB70B
Insulation barrier Interphase			B	B-43A
Insulation barrier Earth			BL	—

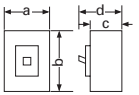
Notes: ● Interphase insulation barriers are standard provided for the front mounting type breakers. ● Available — Not available ▲ Factory-mounted accessory
* H603R, H803R do not conform to IEC 60947-2.

Molded Case Circuit Breakers

H series

Quick reference guide / Motor protection

■ H series/3-pole (Motor protection)

Frame		50A
Pole		3
Type	Page 06/110	H53BAM
Rated current (A) *1		16, 24, 32, 40, 45
Rated insulation voltage Ui (Volts)		AC 660 DC —
Rated breaking capacity (kA)	IEC 60947-2 [Icu/Ics]*2	600V AC 35/9
	JIS C8201-2-1	500V AC 42/11
	Ann.2 [Icu]	440V AC 65/17
		415V AC 65/17
		400V AC 65/17
		380V AC 65/17
		230V AC 125/32
Dimensions (mm)		a 90
Page 06/118		b 155
		c 60
		d 82
Mass (kg)	Front mounting type	1.4
Tripping device		Thermal-magnetic
Trip button		
Front mounting,	front connection	No-mark ●
	rear connection	X ●
Flush mounting,	rear connection	E ●
	top & bottom connection	Y —
Plug-in mounting	P	●
Draw-out	D	—
Internal accessories		Page 06/126
Alarm switch	K	BZ-K35B□
Auxiliary switch	W	BZ-W35B□
Undervoltage trip	R	BZ-R35BT□
Shunt trip	F	BZ-F35BT□
External accessories		Page 06/125
Motor operating mechanism	M	▲
Padlocking device	Q	▲
Mechanical interlocking device	M1	BZ-M130C-3
Operating handle N type	N	BZ-N30C
Operating handle V type	V	BZ-V30C
Steel enclosure	C	BZ-C30B-3
Steel enclosure with V type handle	CV	BZ-CV30C
Terminal cover Short	TS	BZ-TS30B-3
Terminal cover Long	TB	BZ-TB30B-3
Insulation barrier Interphase	B	BZ-B30B
Insulation barrier Earth	BL	BZ-BL35B

Notes: *1 For further information related to motor capacity, see page 06/117.

● Available — Not available ▲ Factory-mounted accessory

■ Mounting modifications

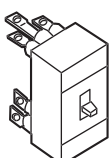
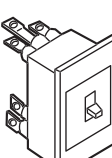
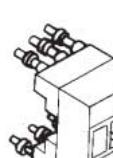
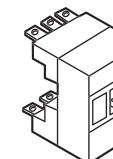
Standard type FUJI breakers are front mounting with front connections. The standard breaker can easily be modified to become front mounting rear connection type, flush mounting type and plug-in type. The additional parts such as insulation bases, barriers, covers and similar parts are added as required.

Standard type
Front mounting
Front connection



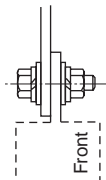
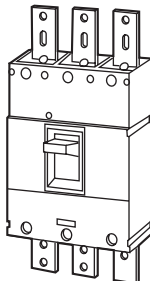
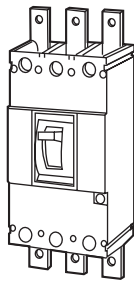
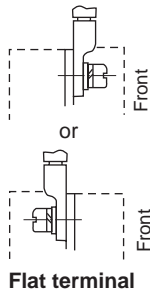
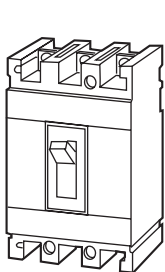
Mounting modification kits:
See page 06/145



BASIC DESIGN


Additional main parts	Front mounting Rear connection (X type)	Additional main parts	Flush mounting Rear connection (E type)	Additional main parts	Plug-in mounting (P type)
Bar stud terminal	H50BA H100BA H100R H225BA H225R H400R H600R H800R	Bar stud terminal	H50BA H100BA H100R H225BA H225R H400R H600R H800R	Round stud terminal	H50BA H100BA
	Each stud can be turned by 90°		Each stud can be turned by 90°		
				Bar stud terminal	H100R H400R H225BA H600R H225R H800R
					Each stud can be turned by 90°

06

■ Terminal connection/Front mounting, front connection



Self lifting screw	Breaker type	Size
Pan-head screw 	H50BA H100BA	M8 × 14
Hexagonal socket head bolt 	H100R H225BA H225R	M8 × 20

Hexagonal head bolt	Breaker type	Size
	H400R	M12 × 35
	H600R H800R	M12 × 40

Molded Case Circuit Breakers

H series

Wire size and terminal

■ Wire size and crimp terminal

The following is the size recommendations for crimp terminals.

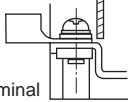
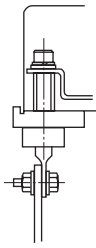
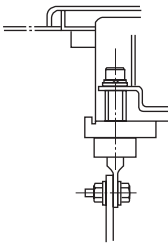

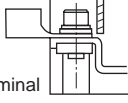
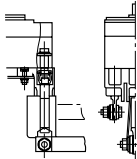

Crimp terminal R : JIS C2805
 CB : JEM-1399
 JST : Product of Japan Crimp Terminal Co., Ltd.
 F : FUJI special crimp terminal

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	60.57 96.3	96.3 117.2	117.2 152.05	152.05 192.6	192.6 242.27
		2.63	6.64	10.52	16.78	26.66	42.42	60.57	96.3	117.2	152.05	192.6	242.27
50	H50BA	R2-8	R5.5-8	R8-8	R14-8	JST22-S8							
100	H100BA, H100R	R2-8	R5.5-8	R8-8	R14-8	R22-8	JST38-S8	CB60-8					
225	H225BA, H225R				R14-8	R22-8	R38-8	R60-8	CB100-8	CB150-8			
400	H400R						R38-12	R60-12	R100-12	R150-12	R200-12	JST325-12 *1	
600	H600R								R100-12	R150-12	R200-12	JST325-12	
800	H800R								R100-12	R150-12	R200-12	JST325-12	

Note: For solid-state trip types, same as the standard types.

*1 When this crimp terminal is used, the terminal cover cannot be mounted.

■ Breaker termination

MCCB type	Front connection	Rear connection X	Flush mounting E	Plug-in mounting P
H50BA H100BA	 Flat terminal			
H100R H225BA H225R	 Flat terminal			 90° rotational stud
H400R H600R H800R	 Flat terminal			

■ H series, 2-pole / Line protection

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
50	15	H52BA/15 <input type="checkbox"/>	Blank, X, E, P
	20	H52BA/20 <input type="checkbox"/>	
	30	H52BA/30 <input type="checkbox"/>	
	40	H52BA/40 <input type="checkbox"/>	
	50	H52BA/50 <input type="checkbox"/>	
100	15	H102BA/15 <input type="checkbox"/>	Blank, X, E, P
	20	H102BA/20 <input type="checkbox"/>	
	30	H102BA/30 <input type="checkbox"/>	
	40	H102BA/40 <input type="checkbox"/>	
	50	H102BA/50 <input type="checkbox"/>	
	60	H102BA/60 <input type="checkbox"/>	
	75	H102BA/75 <input type="checkbox"/>	
	100	H102BA/100 <input type="checkbox"/>	
225	125	H202BA/125 <input type="checkbox"/>	Blank, X, E, P
	150	H202BA/150 <input type="checkbox"/>	
	175	H202BA/175 <input type="checkbox"/>	
	200	H202BA/200 <input type="checkbox"/>	
	225	H202BA/225 <input type="checkbox"/>	

■ H series, 3-pole / Line protection

Breaker ampere frame	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
50	15	H53BA/15 <input type="checkbox"/>	Blank, X, E, P
	20	H53BA/20 <input type="checkbox"/>	
	30	H53BA/30 <input type="checkbox"/>	
	40	H53BA/40 <input type="checkbox"/>	
	50	H53BA/50 <input type="checkbox"/>	
100	15	H103BA/15 <input type="checkbox"/>	Blank, X, E, P
	20	H103BA/20 <input type="checkbox"/>	
	30	H103BA/30 <input type="checkbox"/>	
	40	H103BA/40 <input type="checkbox"/>	
	50	H103BA/50 <input type="checkbox"/>	
	60	H103BA/60 <input type="checkbox"/>	
	75	H103BA/75 <input type="checkbox"/>	
	100	H103BA/100 <input type="checkbox"/>	
	40	H103R/40 <input type="checkbox"/>	Blank, X, E, P
	50	H103R/50 <input type="checkbox"/>	
	60	H103R/60 <input type="checkbox"/>	
	75	H103R/75 <input type="checkbox"/>	
	100	H103R/100 <input type="checkbox"/>	
225	125	H203BA/125 <input type="checkbox"/>	Blank, X, E, P
	150	H203BA/150 <input type="checkbox"/>	
	175	H203BA/175 <input type="checkbox"/>	
	200	H203BA/200 <input type="checkbox"/>	
	225	H203BA/225 <input type="checkbox"/>	
	125	H203R/125 <input type="checkbox"/>	Blank, X, E, P
	150	H203R/150 <input type="checkbox"/>	
	175	H203R/175 <input type="checkbox"/>	
	200	H203R/200 <input type="checkbox"/>	
	225	H203R/225 <input type="checkbox"/>	
400	250	H403R/250 <input type="checkbox"/>	Blank, X, E, P
	300	H403R/300 <input type="checkbox"/>	
	350	H403R/350 <input type="checkbox"/>	
	400	H403R/400 <input type="checkbox"/>	
600	500	H603R/500 <input type="checkbox"/>	Blank, X, E, P, D
	600	H603R/600 <input type="checkbox"/>	
800	700	H803R/700 <input type="checkbox"/>	Blank, X, E, P, D
	800	H803R/800 <input type="checkbox"/>	

■ H series, 3-pole / Motor protection

Breaker ampere frame	Motor capacity (kW) 200/ 220V	400/ 440V	Rated current (A)	Type	<input type="checkbox"/> : Available mounting and connection
50	3.7	7.5	16	H53BAM/16 <input type="checkbox"/>	Blank, X, E, P
	5.5	11	24	H53BAM/24 <input type="checkbox"/>	
	7.5	15	32	H53BAM/32 <input type="checkbox"/>	
	—	18.5	40	H53BAM/40 <input type="checkbox"/>	
	11	22	45	H53BAM/45 <input type="checkbox"/>	

Molded Case Circuit Breakers

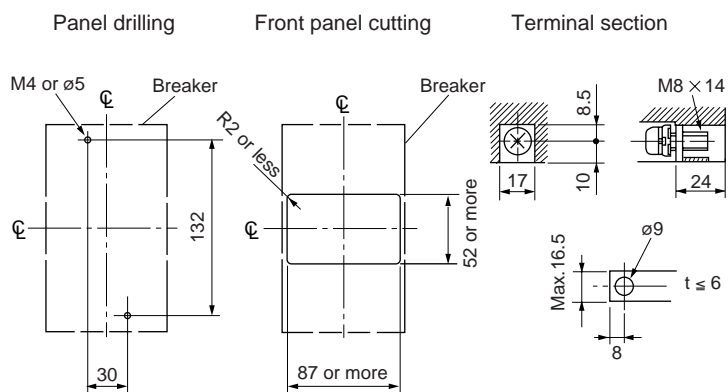
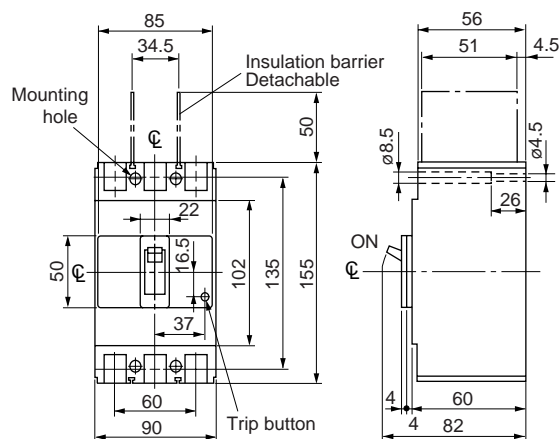
H series

Dimensions

■ Dimensions, mm

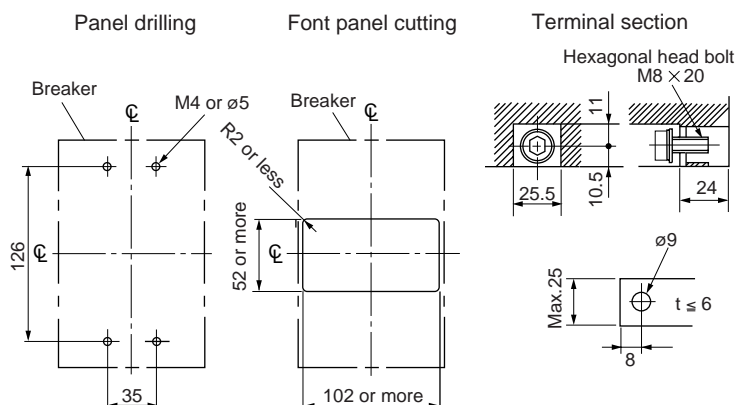
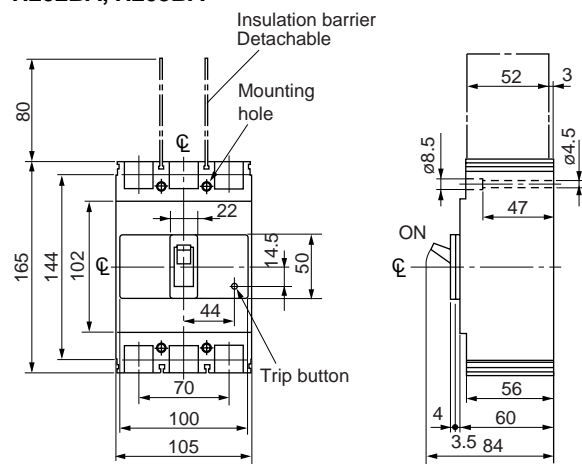
● Front mounting, front connection

H52BA, H53BA, H102BA, H103BA



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

H202BA, H203BA



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

Molded Case Circuit Breakers

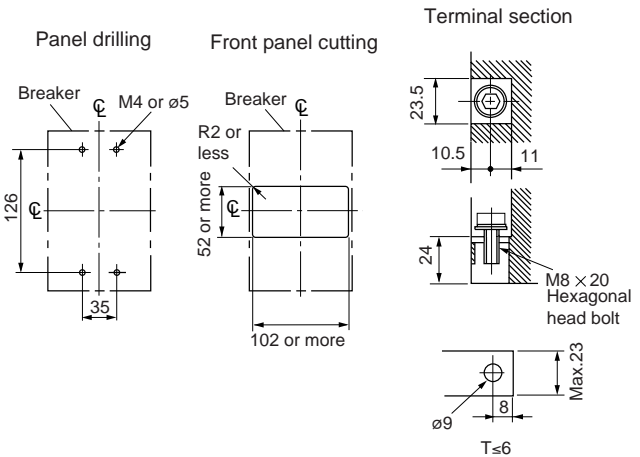
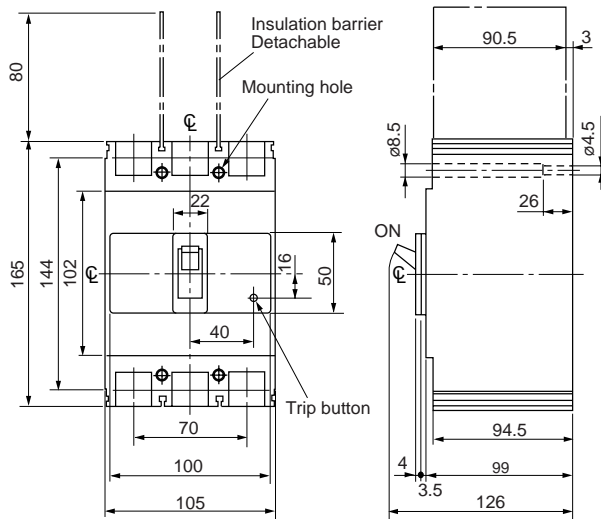
H series

Dimensions

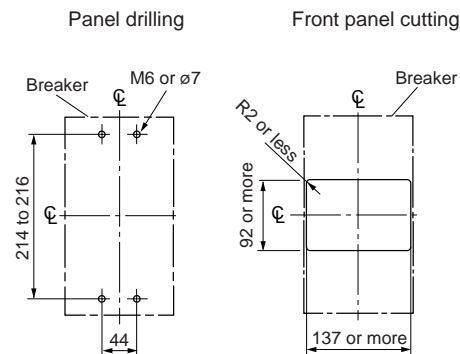
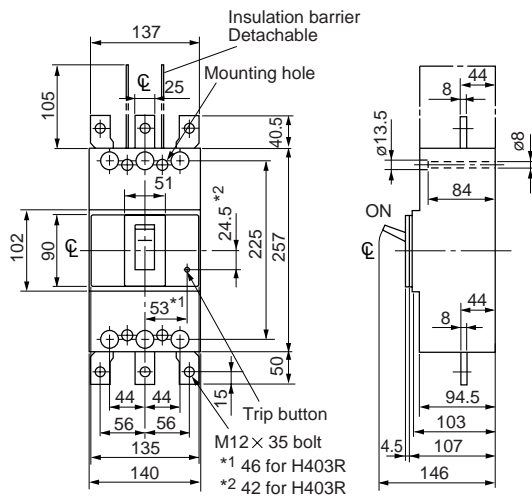
■ Dimensions, mm

● Front mounting, front connection

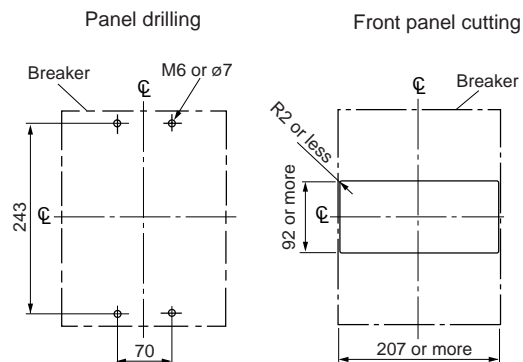
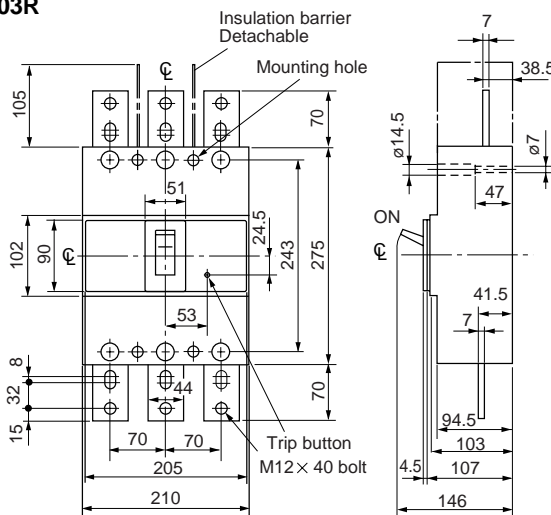
H103R, H203R



H403R



H603R



H series Dimensions

- Front mounting, front connection

H803R

Insulation barrier Detachable

Mounting hole

105

102

90

51

24.5

243

275

70

53

44

70

70

205

210

32

8

15

70

70

205

210

10

41.5

ø14.5

47

ø7

ON

44.5

10

94.5

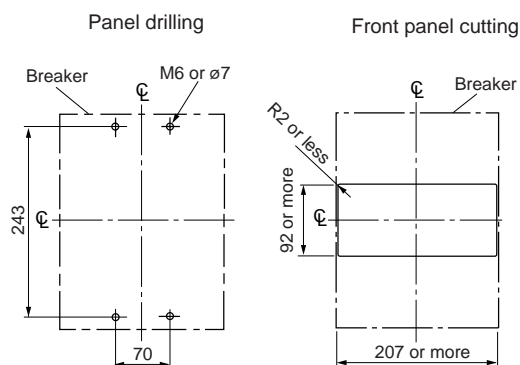
103

107

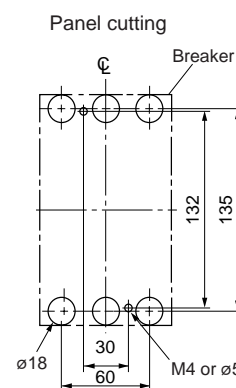
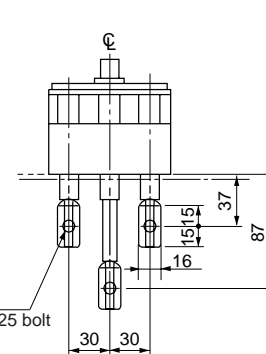
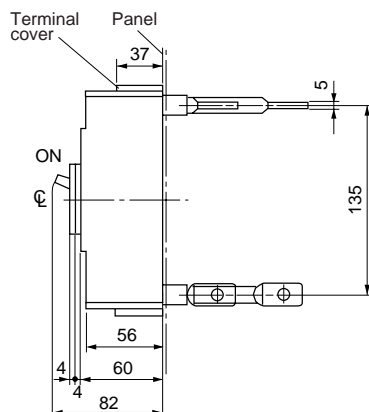
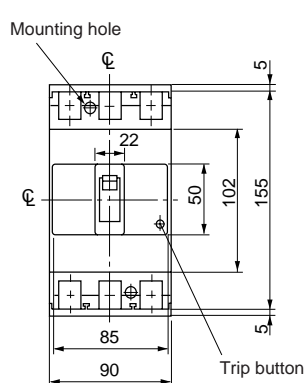
4.5

146

Trip button M12 × 40 bolt



H52BA, H53BA, H102BA, H103BA



- Studs for line side terminals : mounted horizontally
- Studs for load side terminals : mounted vertically

Each stud can be mounted both horizontally or vertically.

H202BA, H203BA

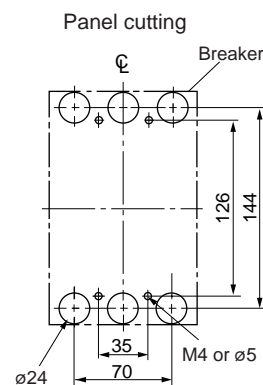
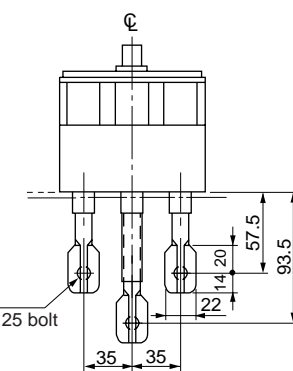
The technical drawing illustrates the dimensions and features of the H202BA and H203BA terminal blocks.

Front View Dimensions:

- Overall width: 100 mm
- Mounting hole diameter: \varnothing
- Distance between mounting holes: 165 mm
- Terminal pitch: 50 mm
- Terminal width: 102 mm
- Bottom flange width: 105 mm
- Flange thickness: 5 mm
- Trip button location: Indicated by a dashed line and arrow pointing to the bottom flange area.

Side View Dimensions:

- Panel thickness: 37 mm
- Terminal cover thickness: 5 mm
- ON indicator height: 144 mm
- Terminal pitch: 56 mm
- Maximum number of terminals: Max. 6
- Terminal width: 60 mm
- Terminal depth: 84 mm
- Terminal offset: 4 mm
- Terminal thickness: 3.5 mm



- Studs for line side terminals : mounted horizontally
- Studs for load side terminals : mounted vertically

Each stud can be mounted both horizontally or vertically.

Molded Case Circuit Breakers

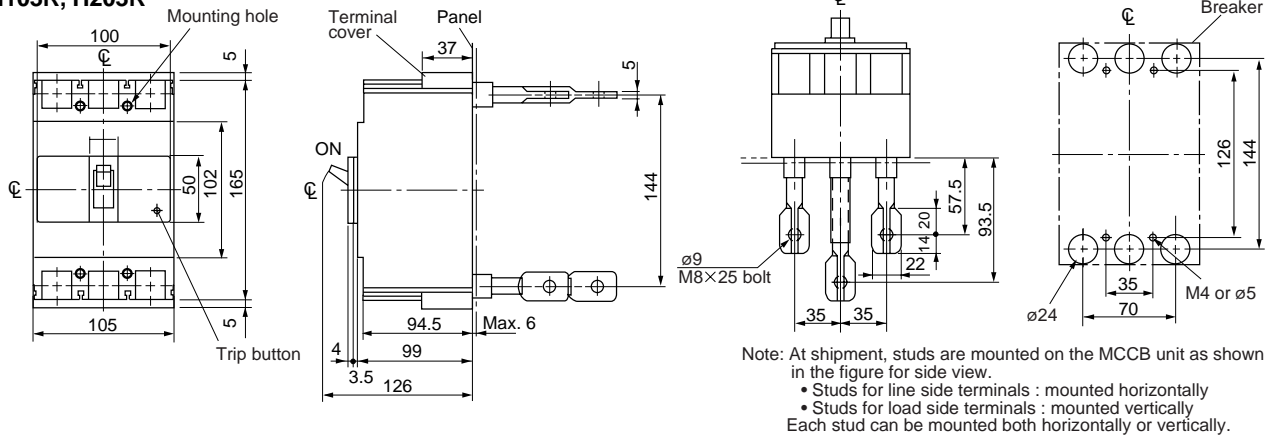
H series

Dimensions

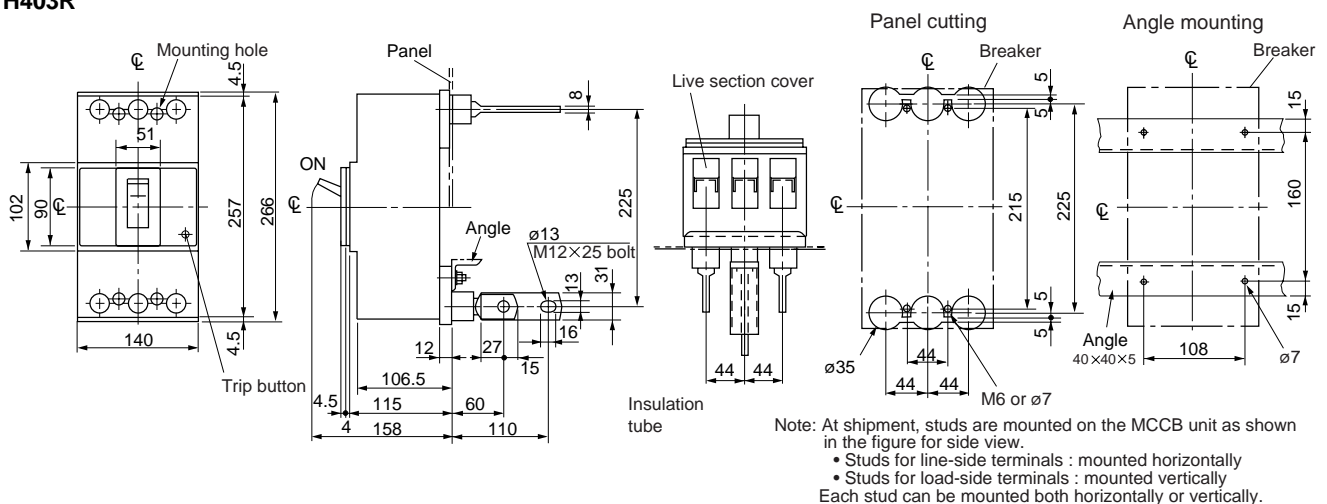
■ Dimensions, mm

● Front mounting, rear connection (type X)

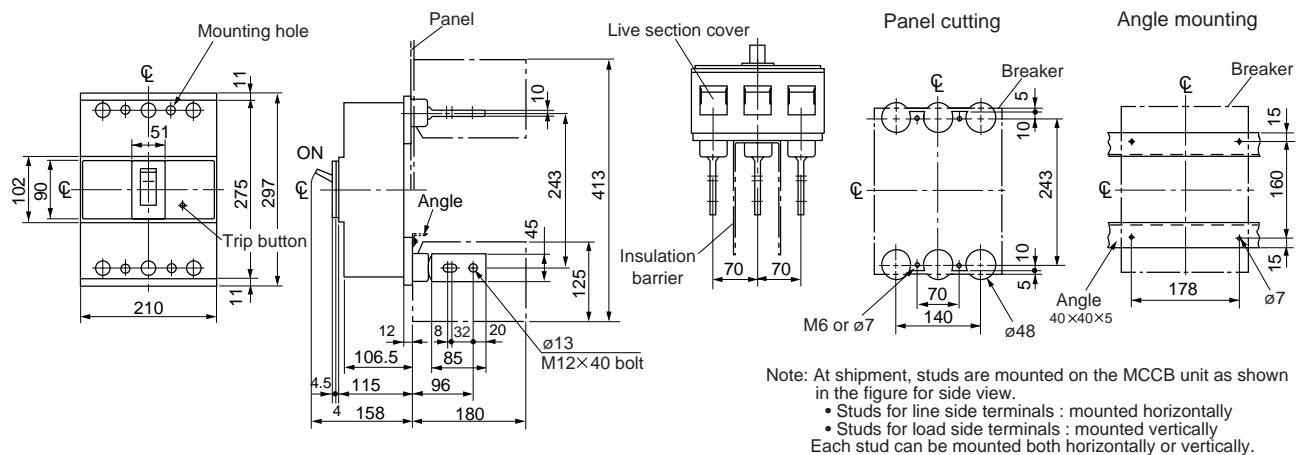
H103R, H203R



H403R



H603R



Molded Case Circuit Breakers

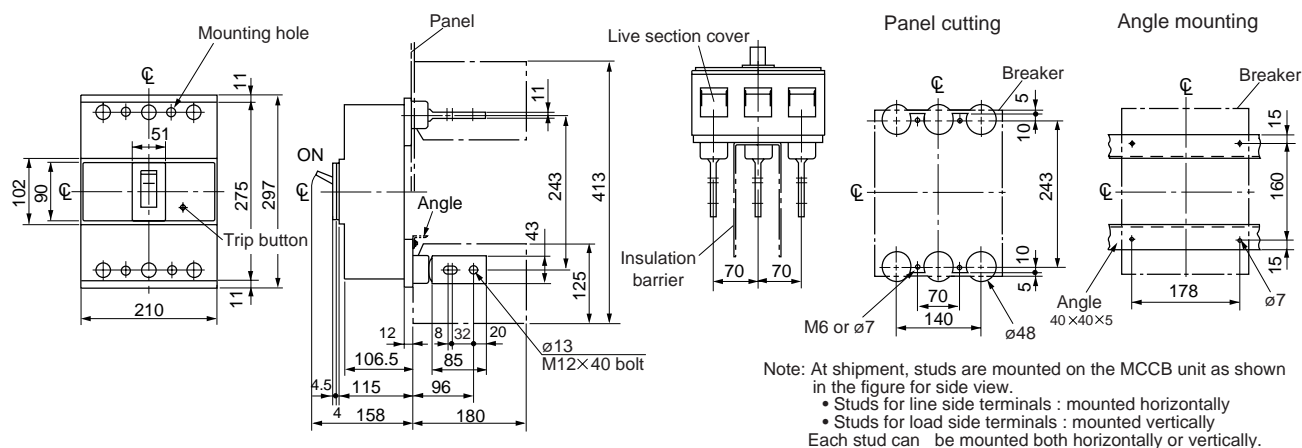
H series

Dimensions

■ Dimensions, mm

● Front mounting, rear connection (type X)

H803R



Dimensions for reference only. Confirm before construction begins.

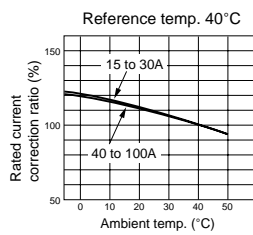
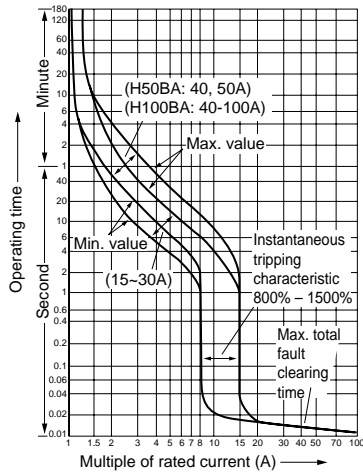
Molded Case Circuit Breakers

H series

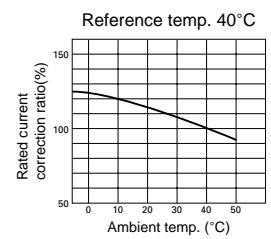
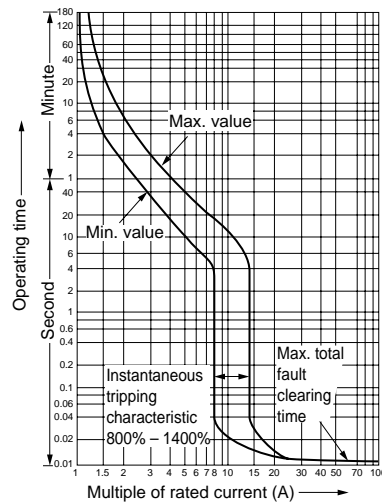
Characteristic curves

Line protection

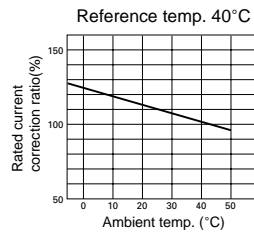
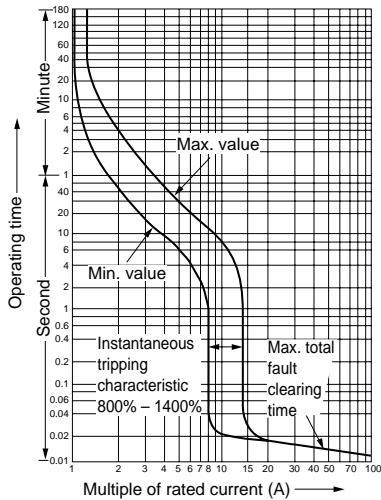
■ H series, 2, 3-pole H52BA, H53BA, H102BA, H103BA



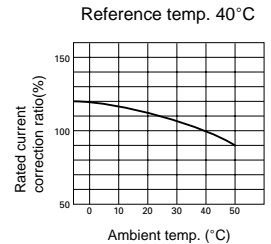
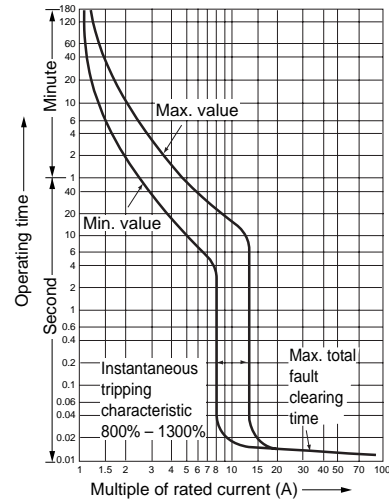
■ H series, 2, 3-pole H403R



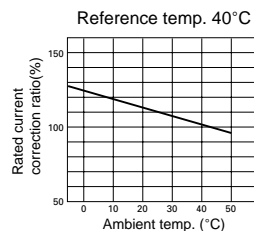
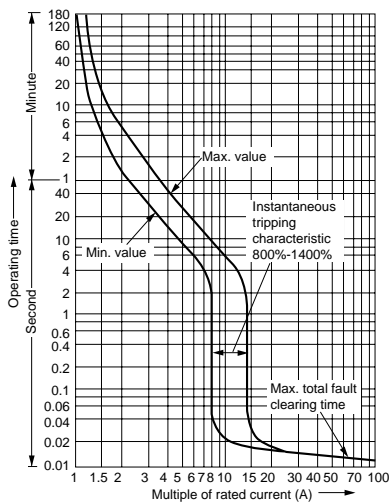
H103R



H603R



H202BA, H203BA, H203R



Molded Case Circuit Breakers

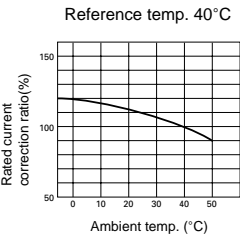
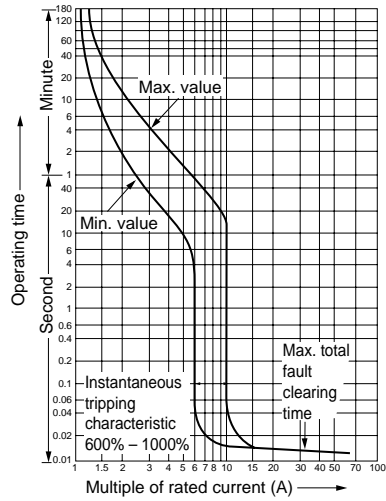
H series

Characteristic curves

Line protection

■ H series, 3-pole

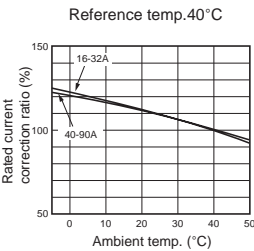
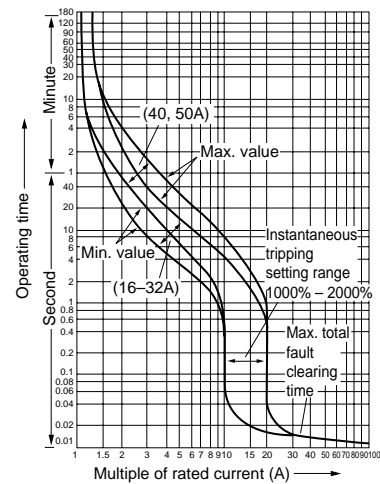
H800R



Motor protection

■ H series

H50BAM

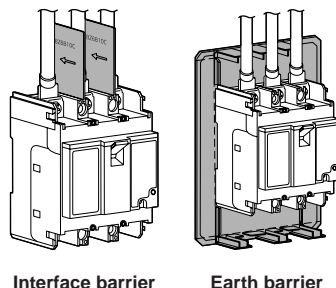


Variation of external accessory

Insulation barriers

The interphase barrier reinforces the insulation between terminals, while the earth barrier increases the insulation between the terminal and the mounting panel.

See page 06/143



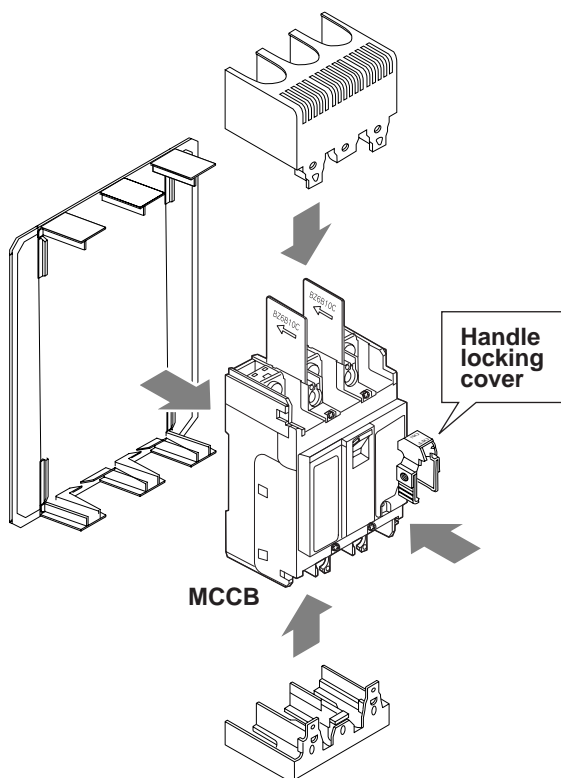
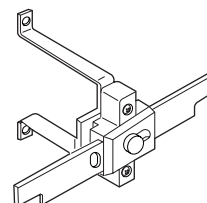
Interface barrier

Earth barrier

Mechanical interlock device

The mechanical interlock device can be mounted onto two separate breakers to maintain a mutual ON or OFF condition. The device can also be locked with a padlock.

See page 06/132



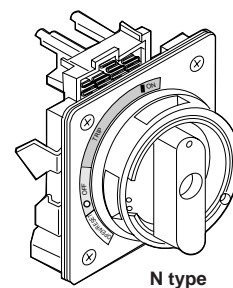
MCCB

Handle locking cover

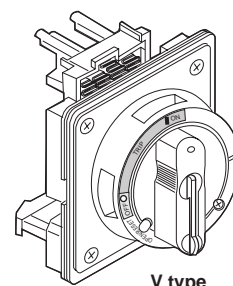
External operating handles

There are two handles available in the series: the V type handle on panel mount and the N type handle on breaker mount. An extension shaft (sold separately) for the V type handle allows the distance between the handle and the breaker to be adjusted. The protective structure of the V type handle operation section conforms to IP54. Both handle types can be locked with a padlock conforming to IEC 60204-1. The panel cutout dimensions are the same for both handles.

See page 06/133



N type



V type

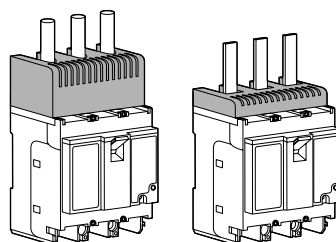
06

Terminal covers

Finger protection guards against shock from accidentally touching live terminals.

Two types of terminal covers are available—long type and short type.

See page 06/143



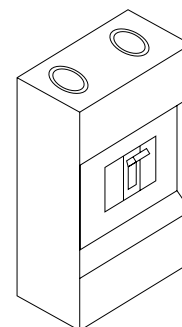
Long type

Short type

Steel enclosures

Enclosures are available in three types—two with V-type handle which allows the operation from the outside, and other direct operating.

See page 06/141



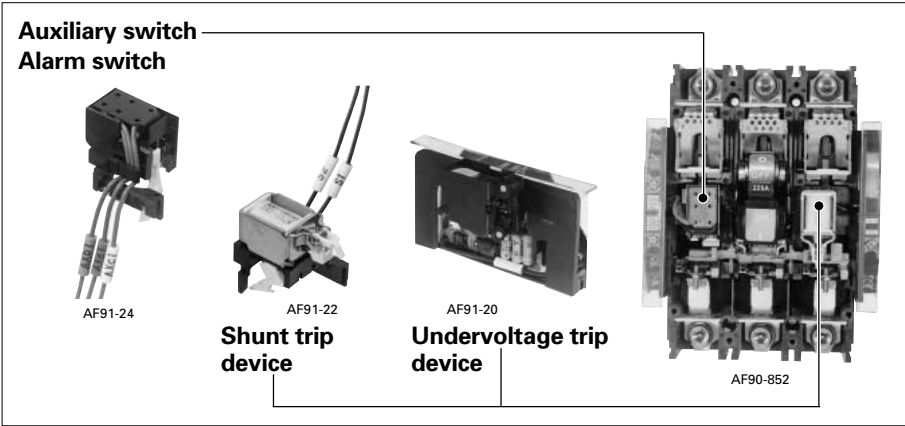
Molded Case Circuit Breakers

H series

Internal accessories

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.
- Specify the connection method when ordering. It is lead-wire system unless specified.
- The lead wires are pulled out and terminal blocks are attached on the same side of the internal accessory will be attached
- For the available configuration of internal accessory, see page 06/127.



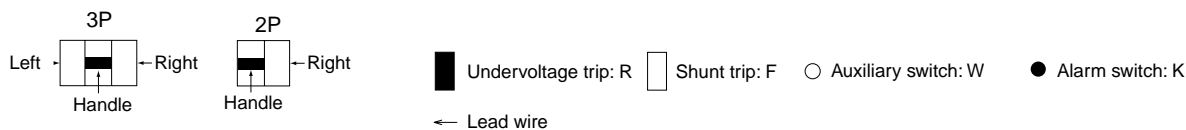
Accessory		Terminal number
		H100R, H225R, H400R, H600R, H800R H50BA, H100BA, H225BA
Auxiliary switch	SPDT: W	
	2PDT: W2	
Alarm switch	SPDT: K	
	2PDT: K2	
Shunt trip device : F	With 1NO contact to prevent coil burn-out	
	Continuous rating	
Undervoltage trip device : R		

Molded Case Circuit Breakers

H series

Internal accessories

Available configurations



MCCB	H series	H103R H203R H52BA H53BA H102BA H103BA H202BA H203BA	H403R H603R H803R *2	
Pole		2, 3	2, 3	
Auxiliary switch SPDT W				
Alarm switch SPDT K				
Shunt trip F				
Undervoltage trip R				
W2				
W+K				
W2+K				
K2				
W+K2				
W2+K2				
W+F				
W2+F				
W+R				
W2+R				
K+F				
K+R				
W+K+F				
W+K+R				
K2+F				
K2+R				
W2+K+F				
W2+K+R				
W+K2+F				
W+K2+R				
W2+K2+F				
W2+K2+R				

Notes: • The lead wires are pulled out and terminal blocks are attached on the same side of the accessory. attached.

*1 The side on which the undervoltage trip device "R" is mounted has the terminal block.

*2 H400R, H600R, H800R: Factory-mounted

Molded Case Circuit Breakers

H series

Internal accessories

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

Accessory	Handle position		Trip
	ON	OFF	
Auxiliary switch	SPDT: W		
	2PDT: W2		
Alarm switch	SPDT: K		
	2PDT: K2		

Note:  Ring mark indication

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

● Standard type

Applicable breaker type	Rated operating current (A) IEC60947-5-1, JIS C8201-5-1				Minimum load current
H series	AC		DC		
	Voltage (V)	AC15 Ind. load	Voltage (V)	DC14 Ind. load	
H50BA	125	2	125	0.5	5V DC 160mA
H100BA, H100R	250	1	250	0.2	30V DC 30mA
H225BA, H225R					
H400R					
H600R					
H800R					

● Low level circuit

Applicable breaker type	DC		Minimum load current
	Voltage (V)	Make/break current (A)	
H series			
H50BA	30	0.1	5V DC 1mA
H100BA, H100R			30V DC 1mA
H225BA, H225R			
H400R			
H600R			
H800R			

■ Rating of shunt trip (F)

MCCB type	Power consumption				Time rating of coil	Operating time (ms)
H series	AC		DC			
	V	VA	V	W		
H50BA	24 (50/60Hz)	30	24	35	Continuous (With 1NO contact to prevent coil burn-out)	7-21
H100BA	48 (50/60Hz)		48			
H100R	100-125 (50/60Hz)		100-110			
H225BA	200-240 (50/60Hz)		200-220			
H225R	380-450 (50/60Hz)		—			
	440-480 (50/60Hz)		—			
H400R	24-48 (50/60Hz)	2	24-48	2	Continuous	8-20
H600R	100-240 (50/60Hz)	3	100-220	3		
H800R	380-550 (50/60Hz)	4	—	—		

Note: Allowable voltage function 70% to 110% of coil rated voltage

■ Rating of undervoltage trip (R)

MCCB type	Power consumption				Operating voltage
H series	AC		DC		
	V	VA	V	W	
H 50BA * ¹	24 (50/60Hz)	0.76	24	0.76	Tripping voltage: 70 to 35% of coil rating voltage
H100BA * ¹	48 (50/60Hz)	1.5	48	1.5	
H100R * ¹	100-110 (50/60Hz)	3.5	100-110	3.5	Closing voltage: 85% or more of coil rating voltage
H225BA * ¹	200-220 (50/60Hz)	2.0	200-220	2.0	
H225R * ¹	380-440 (50/60Hz)	2.9	—	—	
	440-480 (50/60Hz)	4.3	—	—	
H400R	24 (50/60Hz)	2	24	2	
H600R	48 (50/60Hz)	2	48	2	
H800R	100-110 (50/60Hz)	3	100-110	3	
	200-240 (50/60Hz)	3	200-220	3	
	380-480 (50/60Hz)	4	—	—	

Notes: • Specify the operating voltage when ordering.
*1 Terminal block connection is standard method.

H series

Internal accessories

H series	Wire size	Wire length
H50BA H100BA, H100R H225BA, H225R H400R H600R H800R	0.5mm ²	500mm

MCCB type H series	Terminal screw	Dimensions (mm)						
		Fig.	A	B	C	D	E	F
H50BA, H100BA	M3.5	Fig.1	+4.7	2.9	19.8	32.2	44.5	—
H225BA			+5.5	2.8	19.7	32.1	44.4	
H100R, H225R			+0.2	34.9	51.8	64.2	76.5	
H400R		Fig.2	-6.5	—	—	—	—	76.5
H600R, H800R			—	—	—	—	—	85.5

Fig.1

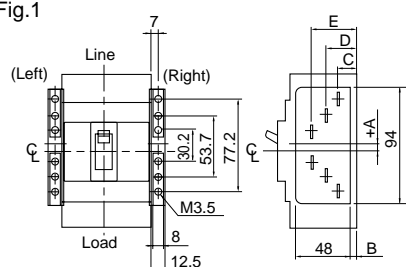
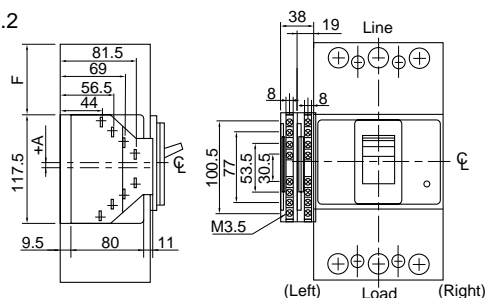


Fig.2



■ **Type number**

● **Auxiliary switches (W) and alarm switches (K)**

MCCB type	Type number		
H series	Auxiliary switch / W SPDT: W	Alarm switch / K SPDT: K	Auxiliary switch + Alarm switch / WK
H50BA H100BA	BZ-W35B □	BZ-K35B □	BZ-WK35B □
H225BA	BZ-W40B □	BZ-K40B □	BZ-WK40B □
H100R H225R	BZ-W50B □	BZ-K50B □	BZ-WK50B □
H400R H600R H800R	Factory-mounted accessory	Factory-mounted accessory	Factory-mounted accessory

Notes: • Auxiliary switch and alarm switch for low level circuit are also available on request, in this case add **D** to the type number when ordering. Example: WD, KD
• Replace the □ mark by the **R** when an auxiliary switch or an alarm switch is mounted on right hand side of the breaker. Enter the **L** when it is mounted on left hand side of the breaker.
* 2-pole types are mountable on right side only.

■ **Ordering information**

Specify the following.

1. Type number
2. Lead-wire connection or terminal block type

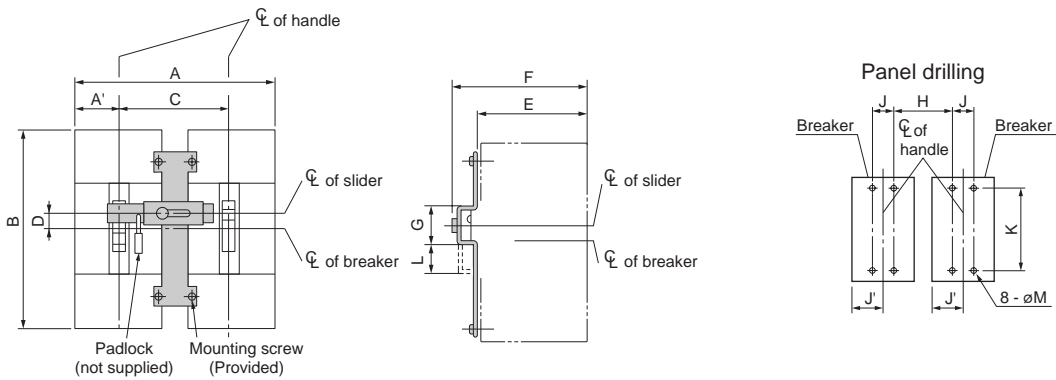
Molded Case Circuit Breakers

H series

External accessories

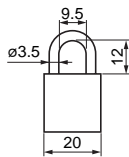
Mechanical interlocking device

■ Dimensions, mm



Type	Breaker type	Dimensions, mm												Mass (kg)
		A (A')	B	C	D	E	F	G	H	J (J')	K	L	M	
BZ-M130C-3	H52BA	210 (45)	155	120	8.8	56	85	35	90	30 (45)	132	—	5	0.177
	H53BA													
	H102BA													
	H103BA													
BZ-M140C	H202BA	240 (52.5)	165	135	9.8	56	85	35	100	35 (52.5)	126	—	5	0.188
	H203BA													
	H103R	240 (52.5)	165	135	9	107	123.5	35	100	35 (52.5)	126	—	5	
	H203R													
BZ-M160C	H403R	355 (70)	257	215	0	94.5	126	54.5	171	44 (70)	215	38	7	0.56
BZ-M170C	H603R	500 (105)	275	290	20	94.5	126	54.5	220	70 (105)	243	38	7	0.64
	H803R													

Note: • Applicable padlock(ø3.5) dimensions, mm



External operating handles

■ Description

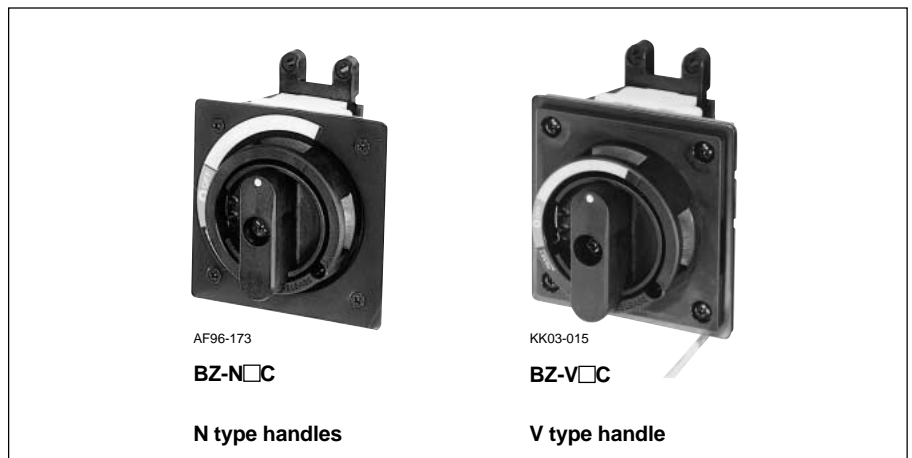
Molded case circuit breaker handles are generally directly manual-operated but when mounted in motor control centers or on control panels they are sometimes required to be operated externally. To meet such applications FUJI offers the following three types of handles.

N type handle

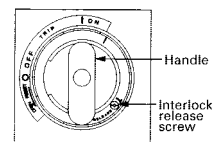
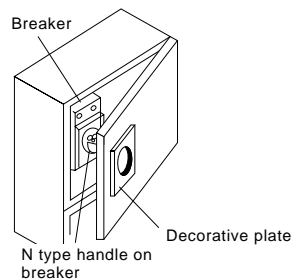
This type has a knob handle directly attached to the breaker. It is easily fitted by cutting a hole in the panel, which is provided with a door interlock. They may be fitted to all breakers up to 800 ampere frame sizes.

V type handle

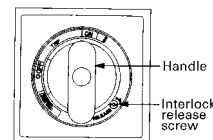
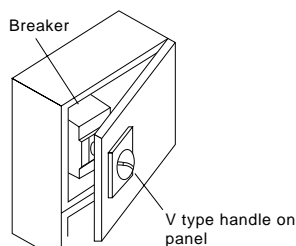
The V type handle may be fitted to breakers of up to 800AF. A separately sold extension shaft provides distance adjustment between the handle and breaker. Conformed to EN60947-1 isolation function. Available for EN60204-1 power breaking device.



N type handles BZ-N□C



V type handles BZ-V□C



N type handles

H series	N type handle
H52BA, 53BA	BZ-N30C
H102BA, 103BA	
H202BA, 203BA	BZ-N40C
H103R, 203R	BZ-N50C
H403R	BZ-N60C
H603R	BZ-N70C
H803R	

V type handles

H series	V type handle
H52BA, 53BA	BZ-V30C
H102BA, 103BA	
H202BA, 203BA	BZ-V40C
H103R, 203R	BZ-V50C
H403R	BZ-V60C
H603R	BZ-V70C
H803R	

Molded Case Circuit Breakers

H series

External accessories

N type operating handles

■ Operating instructions

1. MCCB operation

- Close the door with the handle in the OFF position. Turn the handle to the ON position and the MCCB will be ON.
- Turn the handle to the OFF position and MCCB will be OFF.
- When the breaker trips, the handle moves to the TRIP position. To reset, move the handle to the RESET position.

2. Door locking

- The door cannot be opened when the handle is in the ON, OFF or TRIP position, and can be opened only when the handle is in the OPEN position.
- The breaker cannot be ON when the door is open.
- If it is necessary to open the door with the breaker closed, turn the door lock release screw counterclockwise using a screwdriver.

3. Handle locking

The handle can be locked in either the ON or OFF position when a padlock (not supplied) is used. Pull out the handle lock plate and fit your padlock to the lock plate. If the breaker trips while it is locked in the ON position, the handle moves to the TRIP position.

■ Installation

● BZ-N30C, BZ-N40C

1. Drilling and cutting the door

Drill and cut the door. The dimensions for drilling and cutting are the same whether the MCCB is installed horizontally or vertically.

2. Preparing a base plate (Fig. 1)

Prepare a base plate to adjust breaker mounting position (base plate: not supplied). Front mounting, front connection type breakers can only be suitable for this handle. Drill the breaker mounting holes on the base plate.

3. Fitting the N-handle mechanism and MCCB to the base plate (Fig. 1)

Commonly tighten the N-handle body and MCCB to the base plate with the mounting screws. For N30C, tighten two mounting screws on a diagonal line, and for N40C, tighten four mounting screws. Assemble the driving unit so that the breaker handle engages the N handle arm. (Fig. 4)

4. Mounting the decorative plate

Mount the decorative plate and the retaining plate to the door with screws provided. (Fig. 2)

Adjust the position of the handle unit so that it does not tilt against the breaker. (Fig. 3)

Fig. 1

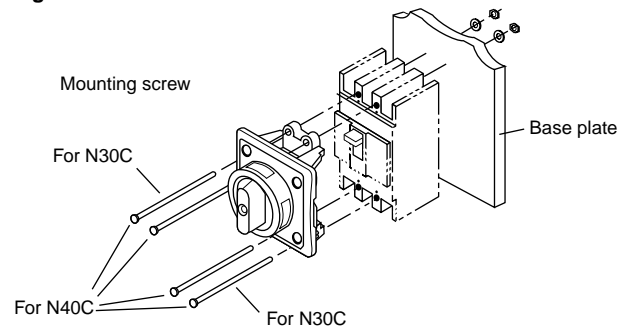


Fig. 2

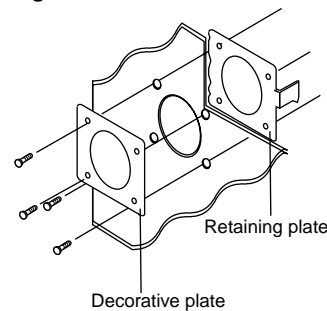


Fig. 3

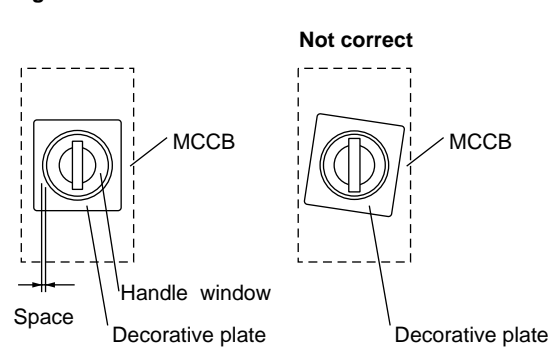
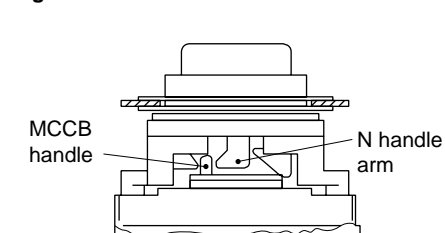


Fig. 4



■ Installation

● BZ-N60C, BZ-N70C

1. Drilling and cutting the door

Drill and cut the door. The dimensions for drilling and cutting are the same whether the MCCB is installed horizontally or vertically.

2. Preparing a base plate (Fig. 1)

Prepare a base plate to adjust breaker mounting position (base plate: not supplied). Front mounting, front connection type breakers can only be suitable for this handle. Drill the breaker mounting holes on the base plate.

3. Fitting the N-handle mechanism and MCCB to the base plate (Fig. 1)

Commonly tighten the N-handle body and MCCB to the base plate with the four mounting screws. Assemble the driving unit so that the breaker handle engages the N handle arm. (Fig. 4)

4. Mounting the decorative plate

Mount the decorative plate and the retaining plate to the door with screws provided. (Fig. 2)

Adjust the position of the handle unit so that it does not tilt against the breaker. (Fig. 3)

Fig. 1

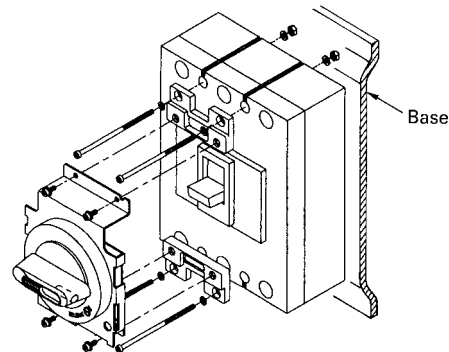


Fig. 2

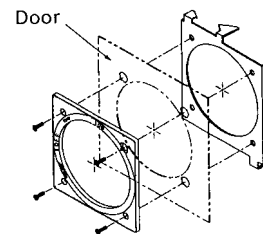


Fig. 3

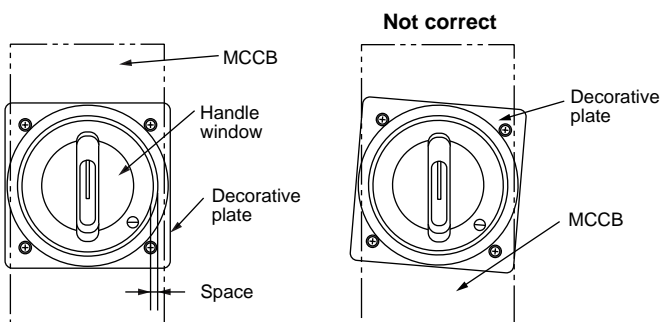
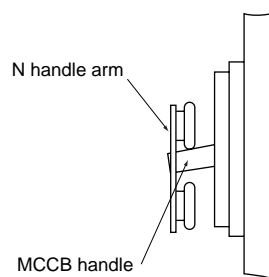


Fig. 4



■ Type number nomenclature

BZ - N □ C T - R

Installation

Blank: Vertically
 R: Horizontally, right line side
 L: Horizontally, left line side

Door locking device

Blank: Provided
 T: Not provided

Basic type

Note:

To order an N handle for front-mounting rear connection breakers, add "-X" to the type number, for plug-in mounting breakers, add "-P" to the type number.

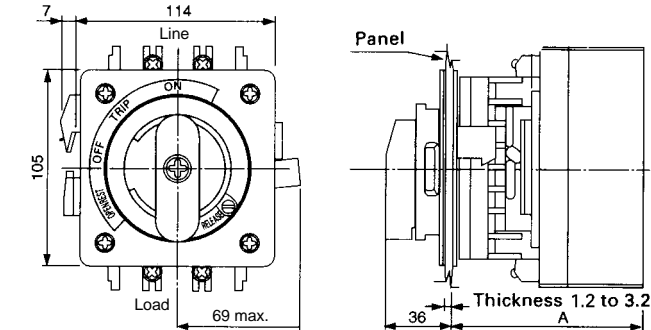
Molded Case Circuit Breakers

H series

External accessories

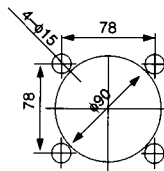
■ Dimensions, mm

BZ-N30C to BZ-N50C (Dust proof packing: BZ-NP-1C, optional)

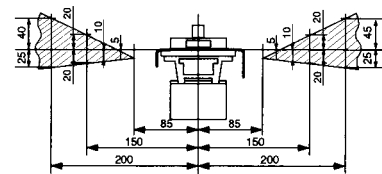


Breaker type	Handle type	A	Mounting Screw	Mass (kg)
H50BA, 100BA	BZ-N30C	103	M4 × 85	0.56

Door panel cutting



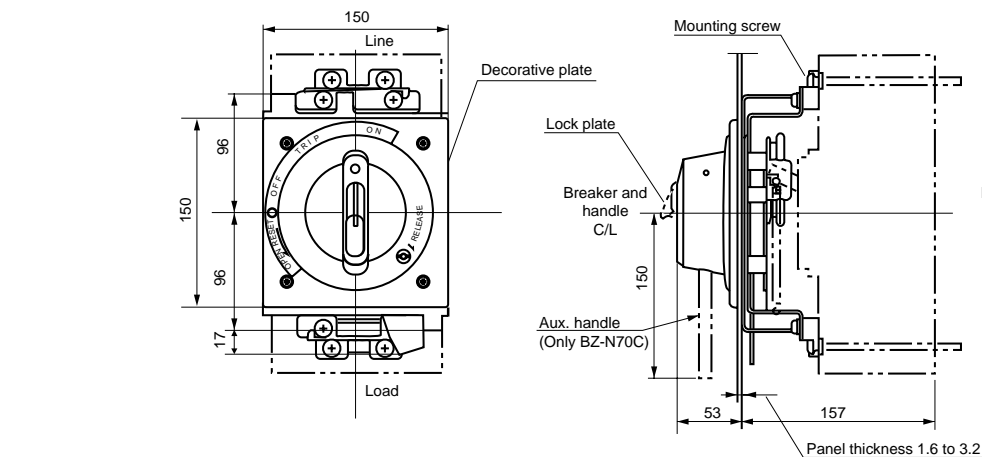
Door hinge installation area



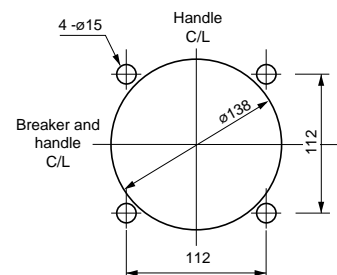
Install the door hinge in the shaded area.

Breaker type	Handle type	A	Mounting Screw	Mass (kg)
H225BA	BZ-N40C	103	M4 × 85	0.56
H100R, H225R	BZ-N50C	142	M4 × 125	0.62

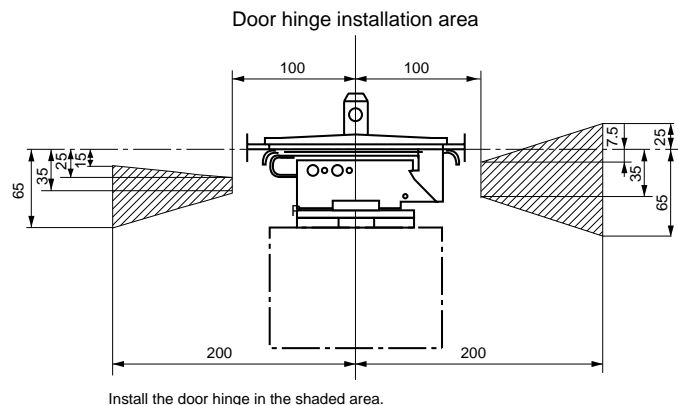
BZ-N60C, BZ-N70C (Dust proof packing: BZ-NP-2, optional)



Door panel cutting



Note: • Handle protection degree IP50 (IEC60529, JIS C 0920) (with the optional dust-proof packing)
• The handle cannot hold the door.



Notes:

1. The N type handles are used with front mounting front connection type breakers. They are normally installed vertically. However, it is possible to install them horizontally if required. In this case please specify so in your order. (Example) Specify as follows:

BZ-N□C-R..... Installed horizontally, the line positioned on the right side.
BZ-N□C-L..... Installed horizontally, the line positioned on the left side.

2. Breakers use different size screws for the P-type (Plug-in) breakers

Breaker type	Handle type	Mounting screw	Mass (kg)
H400R	BZ-N60C	M6 x 110	1.9
H600R, H800R	BZ-N70C	M6 x 110	1.9

V type operating handles, up to 225AF

■ Operating instructions

1. MCCB operation

- Close the door and turn the handle to the ON position and the breaker will be positioned at ON.
- When the breaker is interrupted automatically the handle will move to the TRIP position.
- To reset move the handle to the RESET position.

2. Door panel locking

- Turn the handle to the RESET position and the lock mechanism will be released thus allowing the door to be opened.
- The door cannot be opened when the breaker is positioned at ON.

3. Handle locking

The padlock can lock the handle in the OFF position.

- Locking MCCB with the door open : Fig.1
- Locking MCCB with the door closed : Fig.2

Pull out the lock plate and hook the padlock.

4. Interlock release

This type is provided with an interlock release screw. Turn this screw if it is necessary to open the door in the ON position. This release the lock and allows the door to be opened. When reclosing the door, make sure the handle of the breaker coincides with the position (ON or OFF) of the external handle position.

■ Installation

BZ-V20C to BZ-V50C

1. Drilling and cutting of the door panel

Drill and cut the door panel as shown in the drawing.

2. Mounting of the MCCB

The distance between the backside of the door panel and breaker mounting plate should be the dimension "H" shown in the drawing below.

H dimensions, mm (Fig.3)

- BZ-V30C: 105
- BZ-V40C: 105
- BZ-V50C: 144

3. Mounting the driving unit

- Set the breaker handle to the OFF position. Assemble the driving unit so that the breaker handle engages the V handle arm. (Fig.4)
- Secure the driving unit and breaker together to the mounting plate by tightening the four attached mounting screws. (Fig.5)

4. Mounting the handle unit

- Put the handle unit, cover holder, packing, and retainer in front of and behind the panel and tighten the screws temporarily as shown in Fig.6. Adjust the position of the handle unit so that it does not tilt against the breaker. (Fig.7)
- Put the handle of the handle unit in the OFF position and close the door. Check that the shaft engages the latch when the door closes. (Fig.8)

Fig. 1

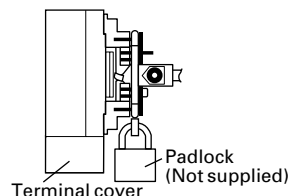


Fig. 2

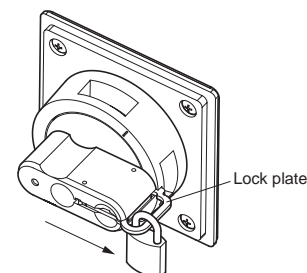


Fig. 3

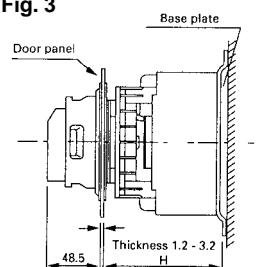


Fig.4

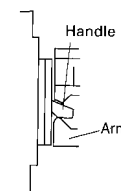


Fig. 5

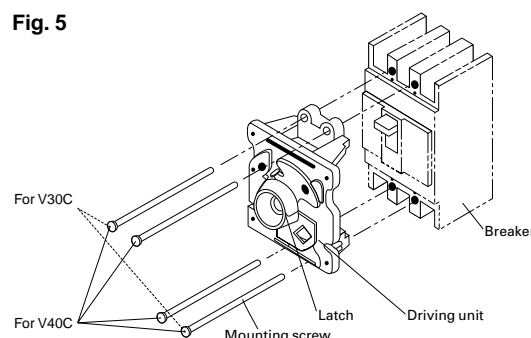


Fig. 6

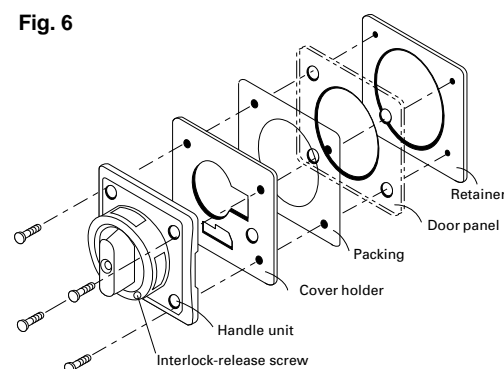


Fig. 7

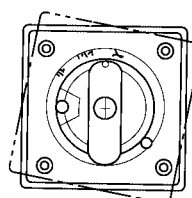
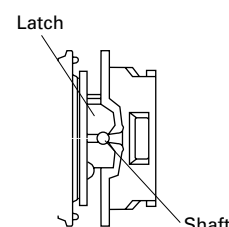


Fig. 8



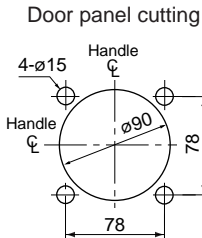
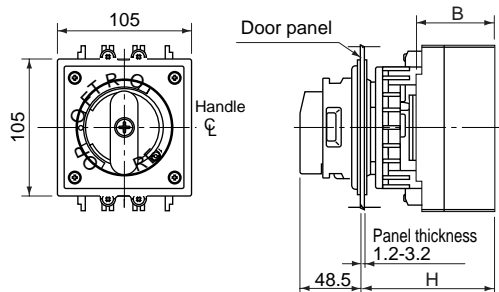
Molded Case Circuit Breakers

H series

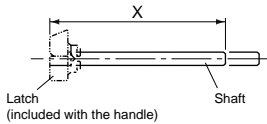
External accessories

■ Dimensions, mm

BZ-V30C, V40V, V50C

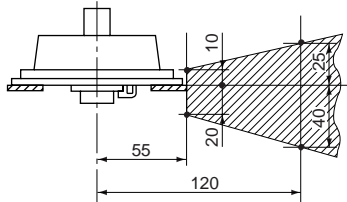


Optional shaft BZ-VS1
X = H - 96



The distance between the handle and breaker can be shortened by cutting the optional shaft.

Door hinge installation area



Install the door hinge in the shaded area.

Breaker type	Handle type	Standard type H	With the optional shaft (X=154)			Mounting screw	Mass (kg)
H series			H	Area in which the hinge with H can be installed	B		
H50BA H100BA	BZ-V30C	105	250	142 to 250	60	M4 x 85	0.67
H225BA	BZ-V40C	105	250	142 to 250	60	M4 x 85	0.67
H100R H225R	BZ-V50C	144	289	181 to 289	99	M4 x 125	0.67

- Notes:
- Handle protection degree IP54 (IEC60529, JIS C 0920)
 - The handle cannot hold the door.

V type operating handles, 400AF to 800AF

■ Operating instructions

1. MCCB operation

- Close the door and turn the handle to the ON position and the MCCB will be positioned at ON.
- When the MCCB is interrupted automatically the handle will move to the TRIP position.
- To reset move the handle to the RESET position.

2. Door panel locking

- Turn the handle to the RESET position and the lock mechanism will be released thus allowing the door to be opened.
- The door cannot be opened when the breaker is positioned at ON.

3. Handle locking

The padlock can lock the handle in the OFF position.

- Locking MCCB with the door open: Fig. 1
- Locking MCCB with the door closed: Fig. 2

4. Interlock release

This type is provided with an interlock release screw. Turn this screw if it is necessary to open the door at the ON position. This releases the lock and allows the door to be opened. When reclosing the door, make sure the handle of the breaker coincides with the position (ON or OFF) of the external handle position.

■ Installation

BZ6V60C, V70C

1. Drilling and cutting of the door panel

Drill and cut the door panel as shown in the drawing.

2. Mounting of the MCCB

The distance between the backside of the door panel and MCCB mounting plate should be the dimension as shown in Fig.3.

3. Mounting the driving unit

- Set the MCCB handle to the OFF position. Assemble the driving unit so that the MCCB handle engages the V handle arm. (Fig. 4)
- Secure the driving unit and MCCB together to the mounting plate by tightening the four attached mounting screws. (Fig. 5)

4. Mounting the handle unit

- Put the handle unit, packing and retainer in front of and behind the door panel and tighten the screws temporarily as shown in Fig.6. Adjust the position of the handle unit so that it does not tilt against the MCCB. (Fig. 7)
 - Put the handle of the handle unit at OFF position and check the latch engages the keeper and close the door while holding the handle unit cover by hand.
- Final tightening the screws should be performed as keep the engaging position. (Fig. 8)

Fig. 1

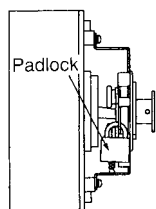


Fig. 2

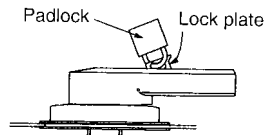


Fig. 3

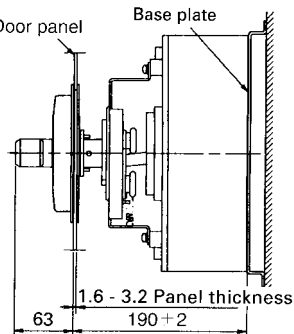


Fig. 4

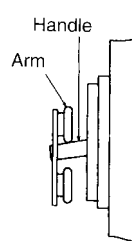


Fig. 5

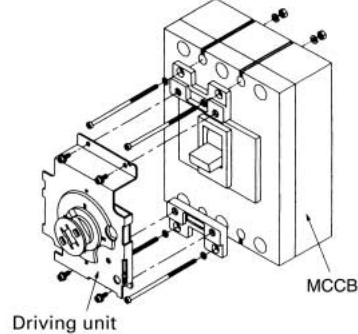


Fig. 6

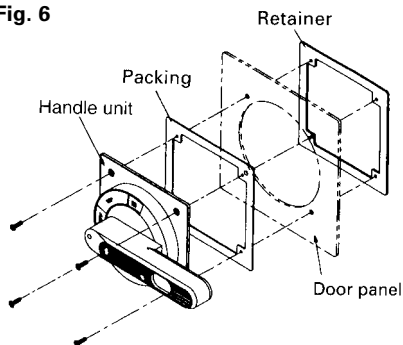


Fig. 7

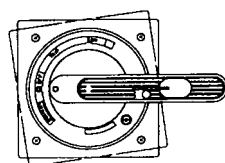
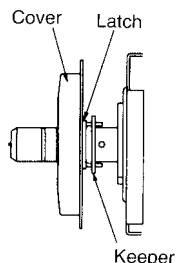


Fig. 8



■ Type number nomenclature

BZ-V □ C - □

Mounting

- Blank: Front mounting, front connection
- X: Front mounting, rear connection
- P: Plug-in mounting

Basic type

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.

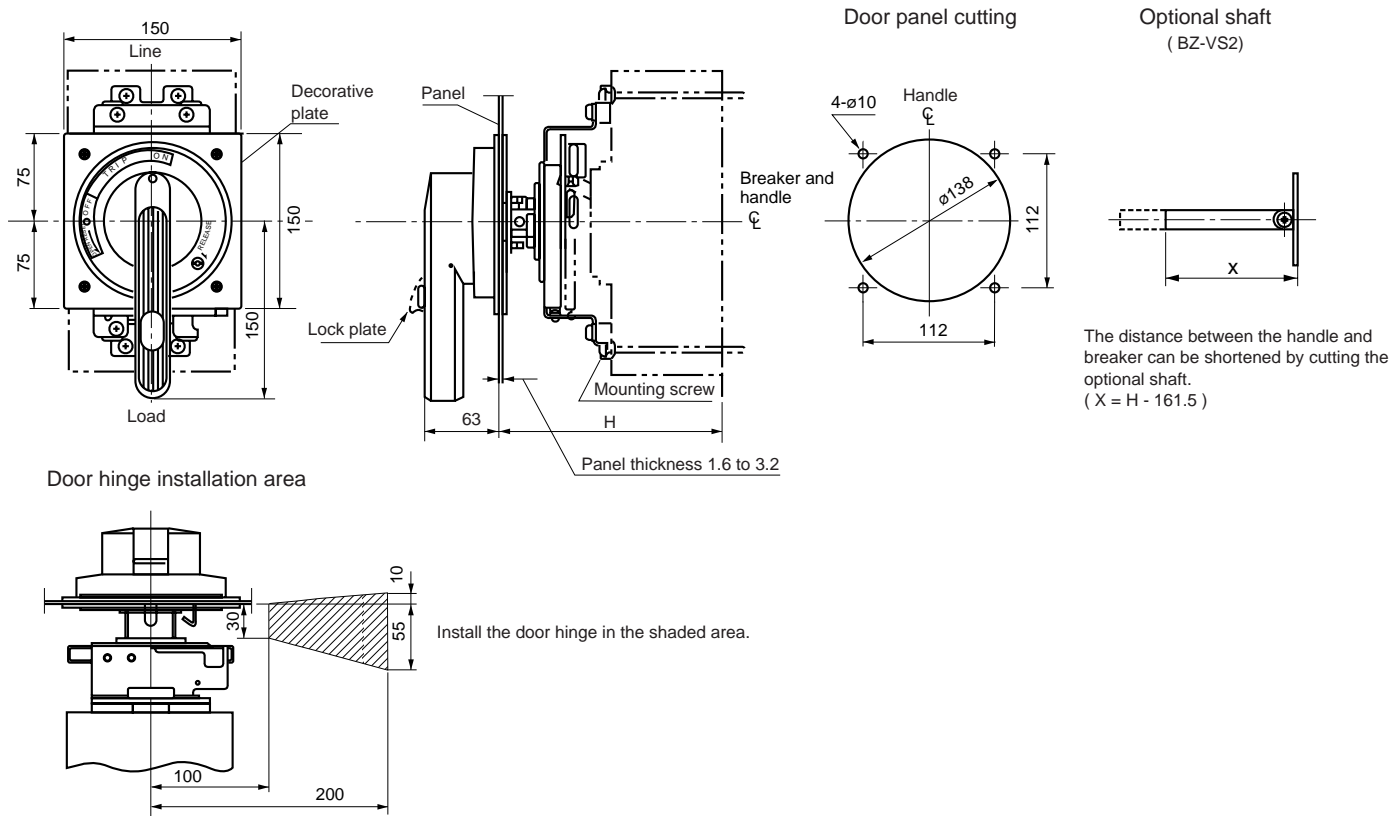
Molded Case Circuit Breakers

H series

External accessories

■ Dimnsions, mm

BZ6V60C, 6V70C, BZ-V60C, V70C



Breaker	Handle type	Standard type H	With the optional shaft H	Area in which the hinge with H can be installed	Mass (kg)
H series					
H400R	BZ-V60C	190±2	250±2	202 to 250	2.2
H600R H800R	BZ-V70C				2.2

- Notes:
- Handle protection degree IP54 (IEC60529, JIS C0920).
 - The handle cannot hold the door.
 - Breakers use different size screws for the X type (rear connection) or P-type (Pulg-in) breakers.

Pressed steel enclosures

■ **Description**
BZ-type enclosures are available in three types — 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**

Breaker type	Enclosure	
H series	Standard	With V type handle Dustproof : IP40
H52BA, H53BA H102BA, H103BA	BZ-C30B-3	BZ-CV30C
H202BA, H203BA	BZ-C40B	—
H103R H203R	BZ-C50B	—
H403R	BZ-C60B	BZ-CV60C
H603R H803R	BZ-C70B	BZ-CV70C

Notes: • The provided V type handles do not conform to EN and IEC standards.

■ **Ordering information**

Specify the following:
1. Type number of enclosures

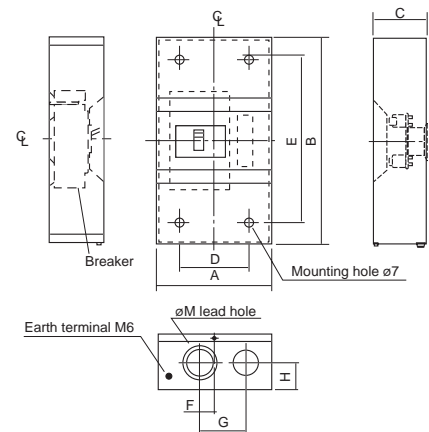
Molded Case Circuit Breakers

H series

External accessories

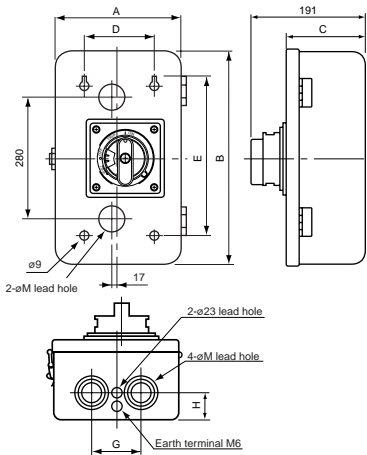
■ Dimensions, mm

Standard

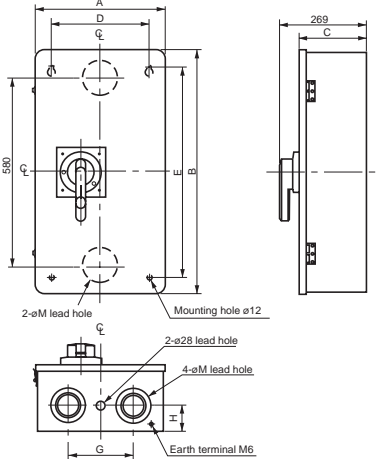


With V type handle

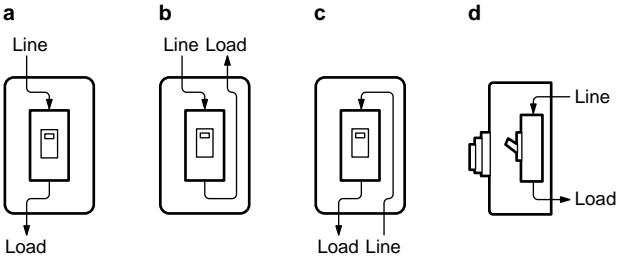
BZ-CV30C



BZ-CV60C, 70C



■ Connection method diagrams



Type	Connection	A	B	C	D	E	F	G	H	M (Ø)	Mass (kg)
BZ-C30B-3	a, b, c	200	320	95	120	240	25	80	40	30, 45	2.4
BZ-C40B		200	360	95	120	280	25	80	45	40, 55	2.5
BZ-C50B		200	360	140	120	280	25	80	45	40, 55	3.1
BZ-C60B		400	750	175	300	650	100	200	80	63, 78, 106	19.3
BZ-C70B											19.3
BZ-CV30C	a, b, c, d	250	400	142	170	320	—	110	50	35, 52, 63	6.4
BZ-CV60C		400	750	206	300	650	—	200	80	63, 78, 106	21.7
BZ-CV70C											21.7

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 225AF

Short type BZ-TS

- Snap-on fitting

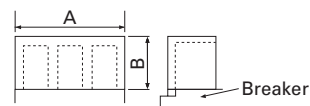
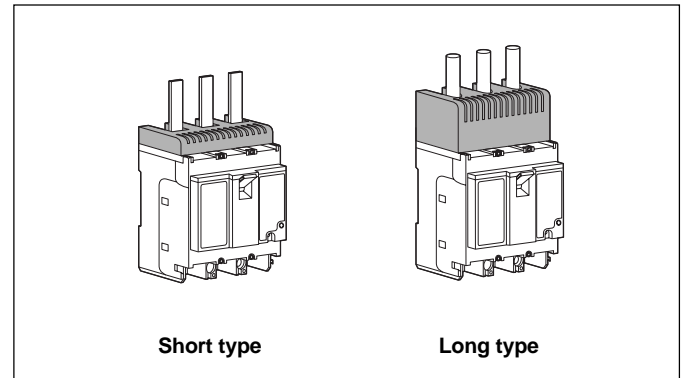
Long type BZ-TB

- Crimp connection use

● 400AF and larger

Long type BZ-TB

- Transparent



● IEC and CE marking conformed

Packing quantity : 2 pcs.

Breaker type	Terminal cover	A (mm)	B (mm)	Mass (g)	Terminal cover	A (mm)	B (mm)	Mass (g)
H series	Short type				Long type			
H52BA, H53BA H102BA, H103BA	BZ-TS30B-3	90	10	43	BZ-TB30B-3	90	40	86
H202BA, H203BA	BZ-TS40B	105	10	60	BZ-TB40B	105	50	107
H103R H203R	BZ-TS50B	105	10	76	BZ-TB50B	105	40	175
H403R	—	—	—	—	BZ-TB60B	172	110	549
H603R H803R	—	—	—	—	BZ-TB70B	230	135	568

Molded Case Circuit Breakers

H series

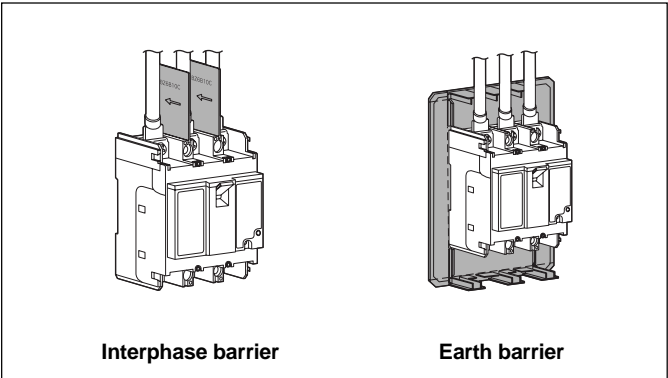
External accessories

Insulation barriers

■ Description

The interphase barriers are provided on frame size of 50AF to 800AF breakers for front mounting. The barriers are installed in the molded slots between terminals.

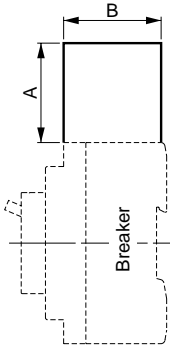
The earth barrier is used to increase the insulation with the mounting plate surface when two crimp terminals are wired. Installation of these barriers after wiring is possible even when an external accessory is installed.



● Interphase barrier

Breaker type	Interphase barrier Type	Dimensions, mm		Packing quantity	Mass (g)
		A	B		
H series					
H52BA, 53BA	BZ-B30B	50	51	4	29
H102BA, 103BA					
H202BA	BZ-B40B	80	52	4	48
H203BA					
H103R	BZ-B50B	80	90.5	4	82
H203R					
H403R	B-43A	105	95	4	131
H603R					
H803R					

Interphase barrier

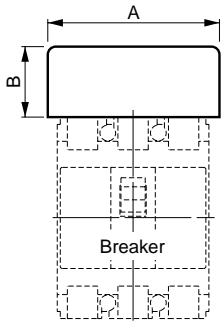


Note: *1 Barrier type for the load side is BZ-B35B.
Interphase barriers are standard provided for the front mounting type breaker.

● Earth barrier

Breaker type	Earth barrier Type	Dimensions, mm*2		Packing quantity	Mass (g)
		A	B		
H series					
H52BA, 53BA	BZ-BL35B	130 (90, 110)	70 (40)	2	16
H102BA, 103BA					
H202BA	BZ-BL40B	190 (105, 147)	100 (50, 72)	2	48
H203BA					
H103R	BZ-BL50B	190 (105, 147)	100 (50, 72)	2	48
H203R					

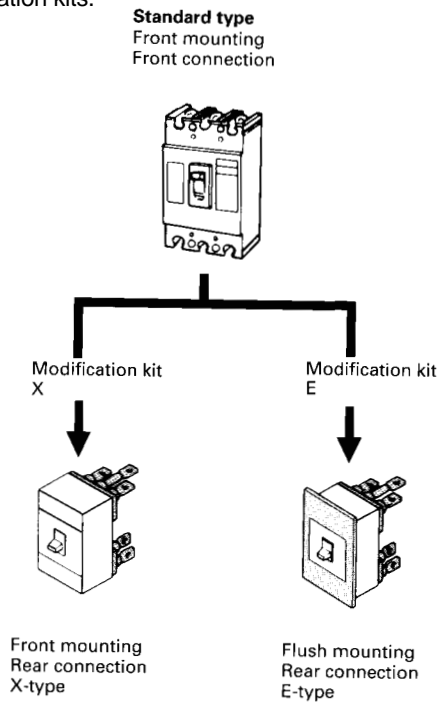
Earth barrier



Note: *2 The value in parentheses is the dimensions after the barrier is cut.

Mounting modification kits

Standard type breakers are front mounting front connections. The standard breaker can easily be modified to become front mounting rear connection and flush mounting types by using the modification kits.



Modification kits

● **For front mounting, front connection (Flat terminal)**

Breaker type	Kit type	
	For 2-pole	For 3-pole
H50BA, 100BA	BZ-S35B-1002	BZ-S35B-1003
H225BA	BZ-S50B-2252	BZ-S50B-2253
H100R, 225R	—	BZ-S50B-2253

● **For front mounting, rear connection (X type)**

Breaker type	Kit type	
	For 2-pole	For 3-pole
H50BA, 100BA	BZ-X31C-1002	BZ-X30C-1003
H225BA	BZ-X40B-2252	BZ-X40B-2253
H100R, 225R	—	BZ-X50B-2253
H400R	—	BZ-X60B-4003

● **For flush mounting, rear connection (E type)**

Breaker type	Kit type	
	For 2-pole	For 3-pole
H50BA, 100BA	BZ-E31C-1002	BZ-E30C-1003
H225BA	BZ-E40B-2252	BZ-E40B-2253
H100R, 225R	—	BZ-E50B-2253
H400R	—	BZ-E60B-4003

Molded Case Circuit Breakers

H series

Accessories

■ Mass

For front mounting, front connection		For front mounting, rear connection (X type)		For flush mounting, rear connection (E type)	
Kit type	Mass (kg)	Kit type	Mass (kg)	Kit type	Mass (kg)
BZ-S35B-1002	0.25	BZ-X30C-1003	0.63	BZ-E31C-1002	0.86
BZ-S35B-1003	0.35			BZ-E30C-1003	1.11
BZ-S50B-2252	0.35	BZ-X31C-1002	0.39	BZ-E40B-2252	0.97
BZ-S50B-2253	0.5	BZ-X40B-2252	0.52	BZ-E40B-2253	1.22
		BZ-X40B-2253	0.77		
		BZ-X50B-2253	0.80	BZ-E50B-2253	1.27
		BZ-X60B-4002	1.98	BZ-E60B-4002	3.40
		BZ-X60B-4003	2.71	BZ-E60B-4003	3.67

■ Padlocking device

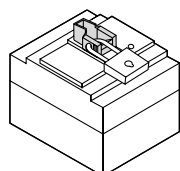
Breaker handles can be fitted with locks. The handle can be locked at either the ON or OFF position. If an overcurrent flows, the breaker trips even when the handle is kept locking. Add the suffix Q1 or Q2 to the ELCB type number to order the padlocking device (not sold separately).

Q1 : Cap type, Q2 :Plate type

Applicable padlocking device

H series

H50BA
H100BA
H100R
H225BA
H225R
H400R
H600R
H800R



Cap type Q1*(400 to 800AF)

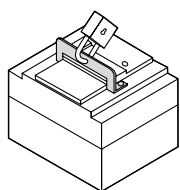


Plate type Q2

A padlock is not provided.

■ Handle locking covers/50 to 800AF

Breaker type	Handle locking cover	Handle locking cover
H50BA, H100BA		BZ6L30C
H225BA		BZ6L40C
H100R, H225R		BZ-L50B
H400R, H600R, H800R		BZ-L70B