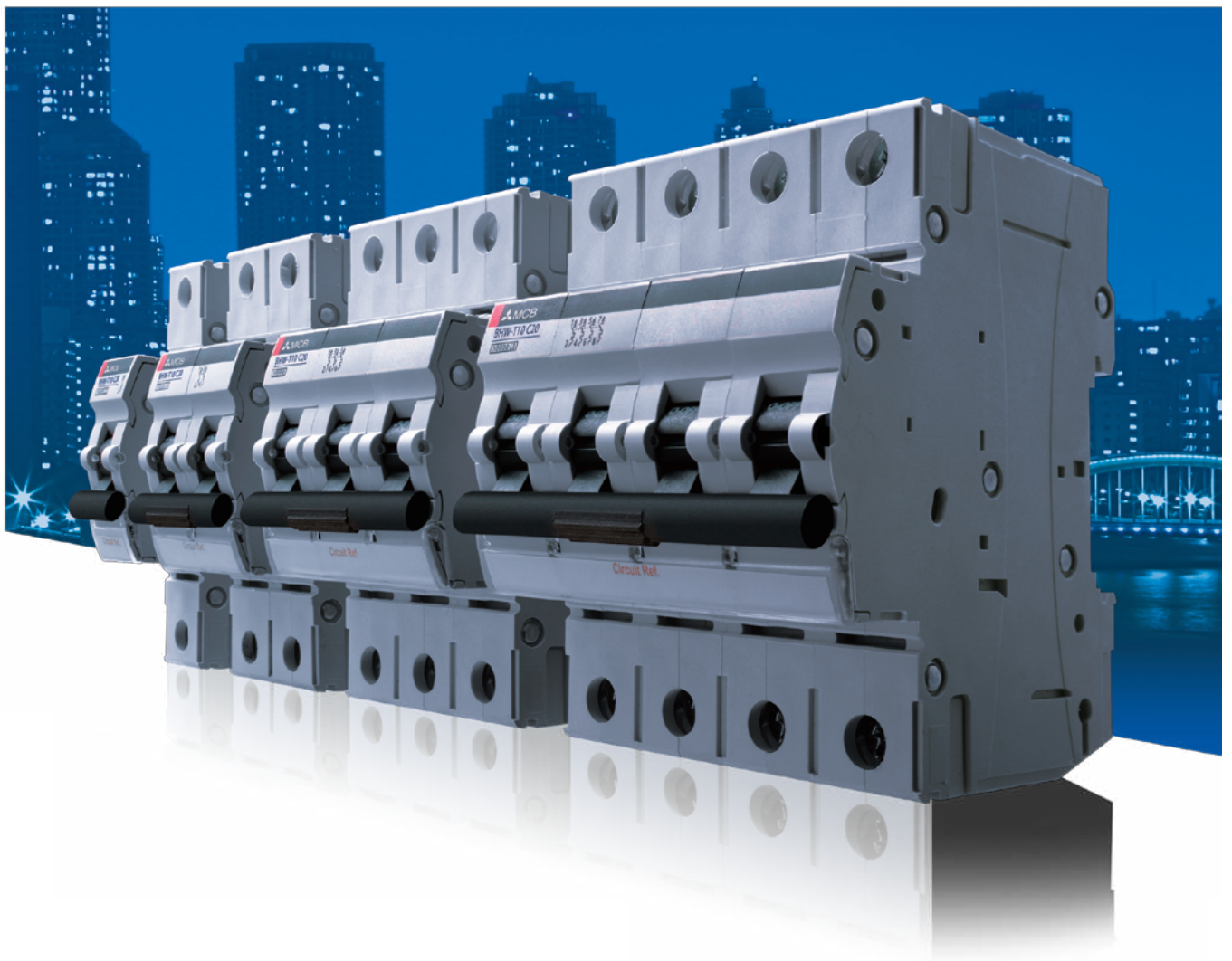




for a greener tomorrow

FACTORY AUTOMATION

# Miniature Circuit Breakers Residual Current Circuit Breakers Isolating Switches **DIN Series**





*Breaking Through The*

## Introducing the DIN Series...

High-quality, high-performance circuit breakers suitable for household electrical distribution panels

# DIN Series

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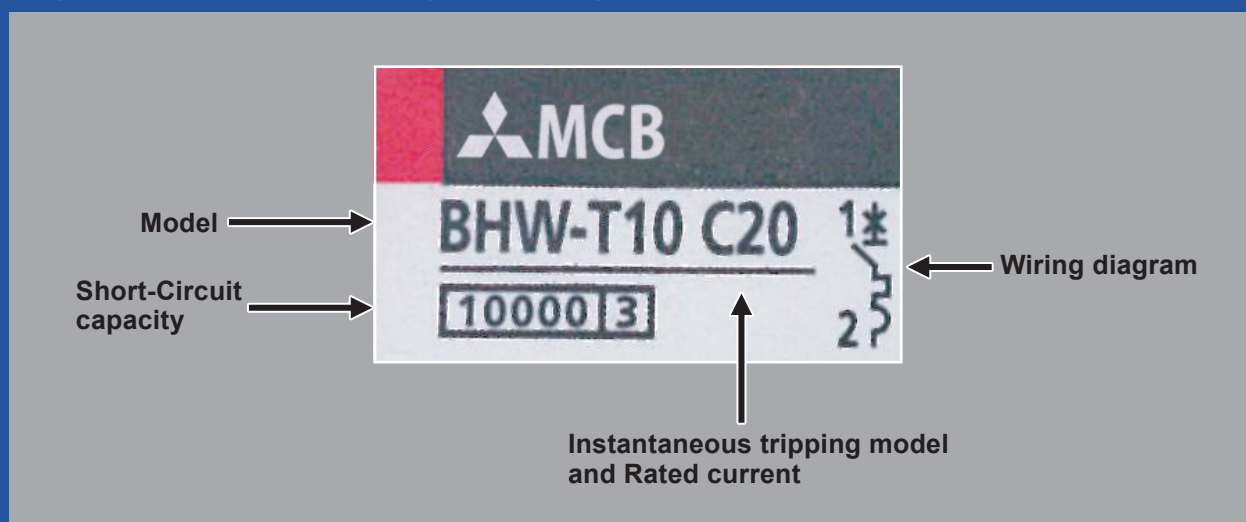
## Features

- (1) All models fully comply with IEC regulations
- (2) Compliance with IP2X protection rating (front surface)
- (3) All models are compatible with reverse connection
- (4) Rated currents up to 125A for MCB, 100A for RCCB
- (5) Accessories suitable for field fitted for MCB (80 to 125A)

## Product Line-up

Model		No of poles (P)	Rating	Instantaneous tripping	Voltage (V)	Short-Circuit capacity (kA)	Compliance standard
MCB	BHW-T10	1, 1+N, 2, 3, 3+N, 4	6 to 63A	TYPE B	240/415AC	10	IEC 60898-1
		1, 1+N, 2, 3, 3+N, 4	0.5 to 63A	TYPE C, D	240/415AC		IEC 60898-1
		1, 2, 3, 4	80 to 125A	TYPE B, C	240/415AC	10	IEC 60898-1 IEC 60947-2
RCCB	BVW-T	2(1+N), 4(3+N)	16 to 100A	—	240/415AC	—	IEC 61008-1
Isolating Switches	KBW-T	1, 2, 3, 4	25 to 63A	—	240/415AC	—	IEC 60947-3
		2, 3, 4	80 to 125A	—	240/415AC	—	IEC 60947-3

## Explanation of Markings (Example Model : BHW-T10)



## Technical Specifications

Ambient temperature range	-10 to +40°C
Frequency	50/60Hz



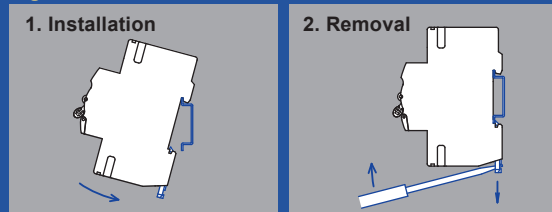


## Points to Note

### 1 Installation

Standard IEC 35mm rail installation is possible.  
Fix by attaching a slip stopper.

Fig-1



### 2 Connection

At the time of wire connection, fasten the terminal screws with the torque stated in the table below.

Fastening torque

Screw diameter	Fastening torque (N·m)	Model
M3	0.5	AL(80 to 125A), AX(80 to 125A), SHT(80 to 125A)
M5	2.0	BHW-T10(0.5 to 63A), BVW-T, KBW-T(25 to 63A), SHT (0.5 to 63A)
M6	2.5	KBW-T(80 to 125A)
M8	3.5	BHW-T10(80 to 125A)

### 3 Opening, Closing and Tripping Operations

Move the handle up/down to turn power On/Off. Tripping operation refers to automatic opening (breaking) of circuits.

### 4 Earth-leakage Test

#### Earth-leakage test steps:

- (1) Move the handle to the On position under rated voltage.
  - (2) Push the yellow test button.
  - (3) At this time, the RCCB must be tripped within the specified time.
  - (4) The handle will move to the Off position.
- \* Please conduct the above test regularly.  
\* Do not use the test button to switch off the RCCB.

### 5 Cleaning

Never use thinner, detergent, and other chemicals for cleaning.  
It is likely to make letters on the plate illegible or to lower insulation performance.  
Clean the breaker using air cleaner or by brushing.

### 6 Selection

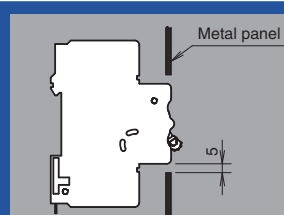
In case of installing MCB side by side, reduce the passing current to under 80% of the rated current.  
Set current rating with enough allowance while taking fluctuation of power voltage and load current into consideration.

### 7 Connection with solderless terminal


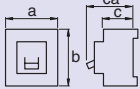
Crimp after loosening strand of the connection wire and putting the core wires together.  
Regular inspection and retightening are necessary as the wires come loose as time goes.

### 8 Installation

When a metal panel comes close to MCB (80 to 125A), be sure to secure a distance of more than 5mm in between.



## Specifications

Model		MCB													
Image															
No. of poles [P]		1	1+N <sup>*1</sup>	2	3	3+N <sup>*1</sup>	4	1	1+N <sup>*1</sup>	2	3	3+N <sup>*1</sup>	4		
Instantaneous tripping <sup>*2</sup>		Type B						Type C, D							
Rated insulation voltage <i>U<sub>i</sub></i> [V]		660						660							
Rated current <i>I<sub>n</sub></i> [A] at ambient temperature 30°C		6, 10, 16, 20, 25, 32, 40, 50, 63						0.5, 1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63							
Rated short-circuit capacity [kA]	IEC/EN 60898-1 (I <sub>cn</sub> )	AC	240V	10						10					
			240/415V	10	–	10		10	–	10					
			415V	–		10		–		10					
Energy limiting class <sup>*3</sup>		Class 3													
Number of operating cycles		Without current		4,000											
		With current		4,000											
		a	18	36		54	72		18	36		54	72		
		b	92.6												
		c	44												
		ca	Max. 73.5												
Type of overcurrent release		Thermal-magnetic													
Mounting		IEC 35mm rail													
Applicable wire size [mm <sup>2</sup> ]		1 to 25													
Mass [kg]		0.13	0.25	0.26	0.39	0.51	0.52	0.13	0.25	0.26	0.39	0.51	0.52		
Accessories (optional) <sup>*4</sup>		Auxiliary switch (AX)		<input type="radio"/>											
		Shunt trip (SHT)		<input type="radio"/>											
Terminal connection		Solderless terminal													
Based on standard		IEC/EN 60898-1													
CE marking		<input type="radio"/>													


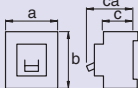
\*1: N pole is a switched neutral pole (without overcurrent release device).

\*2: Type B (3  $I_n < \leq 5 I_n$ ), Type C (5  $I_n < \leq 10 I_n$ ), Type D (10  $I_n < \leq 20 I_n$ )

\*3: Except for Type D

\*4: Factory fitted

\*5: In case of installing breakers side by side, reduce the passing current to under 80% of the rated current.

				MCB				
Model				BHW-T10				
Image								
No. of poles [P]				1	2	3	4	
Instantaneous tripping <sup>*1</sup>				Type B, C				
Rated insulation voltage $U_i$ [V]				690				
Rated current $I_n$ [A]	Amb. temp.	IEC/EN 60898-1	30°C	80, 100, 125				
		IEC/EN 60947-2	40°C					
Rated short-circuit capacity [kA]	IEC/EN 60898-1 (Icn)	AC	240/415V	10				
	IEC/EN 60947-2 (Icu/Ics)	AC	240/415V	10/7.5				
Rated impulse withstand voltage $U_{imp}$ [kV]				6				
Suitability for isolation				Compatible				
Utilization category				A				
Pollution degree				3				
Number of operating cycles		Without current		10,000				
		With current		4,000				
			a	27	54	81	108	
			b	94				
			c	44				
			ca	74.5				
			Type of overcurrent release				Thermal-magnetic	
Mounting				IEC 35mm rail				
Applicable wire size [mm²]				10 to 50				
Mass [kg]				0.21	0.42	0.63	0.84	
Accessories (optional) <sup>*2</sup>		Alarm switch (AL)		○ <sup>*4</sup>				
		Auxiliary switch (AX)		○				
		Shunt trip (SHT)		○ <sup>*4</sup>				
Terminal connection				Solderless terminal				
Based on standard				IEC/EN 60898-1 <sup>*5</sup> , IEC/EN 60947-2				
CE marking				○				

\*1: Type B (3  $I_n < \leq 5 I_n$ ), Type C (5  $I_n < \leq 10 I_n$ )


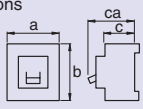
\*2: Field fitted

\*3: In case of installing breakers side by side, reduce the passing current to under 80% of the rated current.

\*4: This accessory will be released shortly. Please contact our branch office for release period and more details.


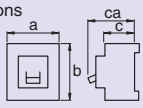
\*5: This standard will be conformed shortly. Please contact our branch office for release period and more details.

## Specifications

		RCCB			
Model		BVW-T			
Image					
No. of poles [P]		2 (1+N) <sup>*1</sup>		4(3+N) <sup>*1</sup>	
Rated voltage [VAC]		240		415	
Rated current I <sub>n</sub> [A] at ambient temperature 30°C		16, 25, 32, 40, 63		80, 100	
Rated current sensitivity I <sub>Δn</sub> [mA]		30, 100, 300		30, 100, 300	
Max. operating time at 5 I <sub>Δn</sub> [s]		0.04		0.04	
Pulsating current sensitivity		Type AC		Type AC	
Residual operation		Independent of line voltage		Independent of line voltage	
Rated making and breaking capacity I <sub>m</sub> [A]		500(I <sub>n</sub> 16, 25, 32, 40A), 630(I <sub>n</sub> 63A)		800(I <sub>n</sub> 80A), 1000(I <sub>n</sub> 100A)	
Rated conditional short-circuit current I <sub>nc</sub> [kA]		6		10	
Rated residual making and breaking capacity I <sub>Δm</sub> [A]		500(I <sub>n</sub> 16, 25, 32, 40A), 630(I <sub>n</sub> 63A)		800(I <sub>n</sub> 80A), 1000(I <sub>n</sub> 100A)	
Rated conditional residual short-circuit current I <sub>Δc</sub> [kA]		6		10	
Number of operating cycles	Without current	4,000 <sup>*2</sup>		3,000	
	With current	2,000		2,000	
<div>Dimensions [mm]</div> 	a	36	72	36	72
	b	90		90	
	c	44		44	
	ca	74		74	
Mounting		IEC 35mm rail		IEC 35mm rail	
Applicable wire size [mm <sup>2</sup> ]		1 to 25		10 to 35	
Mass [kg]		0.22	0.44	0.22	0.44
Accessories		Not available		Not available	
Terminal connection		Solderless terminal		Solderless terminal	
Based on standard		IEC/EN 61008-1		IEC/EN 61008-1	
CE marking		○		○	

\*1: N pole is a switched neutral pole (without overcurrent release device).

\*2: In case of ampere rating 32, 40 and 63A, the number of operating cycles is 3,000.

		Isolating Switches													
Model		KBW-T													
Image															
No. of poles [P]		1		2		3		4		2		3		4	
Utilization category		AC-22A								AC-22A					
Rated current $I_n$ [A] at ambient temperature 30°C		25, 40, 63								80, 100, 125					
Rated voltage [VAC]		240		240/415						240/415					
Short time withstand current $I_{cw}$ [A]		12× $I_n$ , 1s								12× $I_n$ , 1s					
Short-circuit making capacity $I_{cm}$ [A]		12× $I_n$								12× $I_n$					
Rated impulse withstand voltage $U_{imp}$ [kV]		6								6					
Pollution degree		2								2					
<div>Dimensions [mm]</div> <div></div>	a	18		36		54		72		36		54		72	
	b	92.6								92.6					
	c	44								44					
	ca	Max. 73.5								Max. 73.5					
Number of operating cycles	Without current	10,000								10,000 8,000(125A)					
	With current	1,500								1,500 1,000(125A)					
Mounting		IEC 35mm rail								IEC 35mm rail					
Applicable wire size [mm <sup>2</sup> ]		1 to 25								10 to 50					
Mass [kg]		0.12		0.22		0.33		0.47		0.20		0.30		0.40	
Accessories		Not available								Not available					
Terminal connection		Solderless terminal								Solderless terminal					
Based on standard		IEC/EN 60947-3								IEC/EN 60947-3					
CE marking		○								○					

# Characteristics and Dimensions

## Miniature Circuit Breakers (MCB)

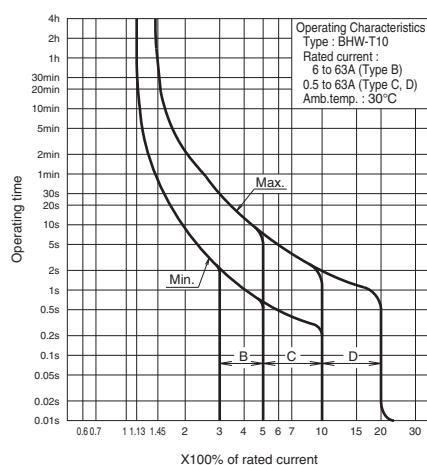
### BHW-T10 (0.5 to 63A)



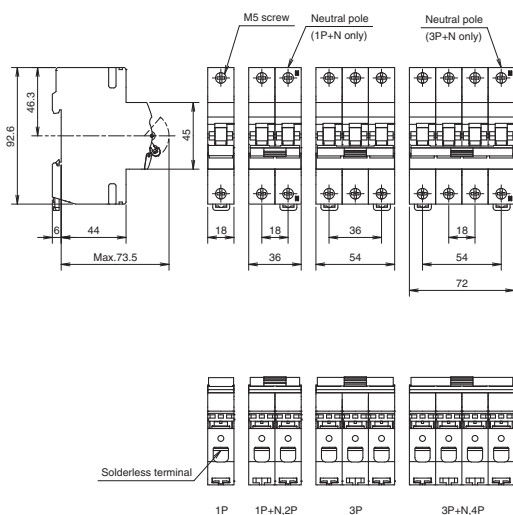
Model				BHW-T10											
No. of poles [P]				1	1+N*1	2	3	3+N*1	4	1	1+N*1	2	3	3+N*1	4
Instantaneous tripping				Type B						Type C,D					
Rated insulation voltage $U_i$ [V]				660						660					
Rated current $I_n$ [A] at ambient temperature 30°C				6,10,16,20,25, 32,40,50,63						0.5,1,2,3,4,5, 6,10,16,20,25, 32,40,50,63					
Rated short-circuit capacity [kA]	IEC/EN 60898-1 (Icn)	AC	240V	10						10					
			240/415V	10	—	10		10	—	10					
			415V	—		10		—		10					

\*1: N pole is a switched neutral pole (without overcurrent release device).

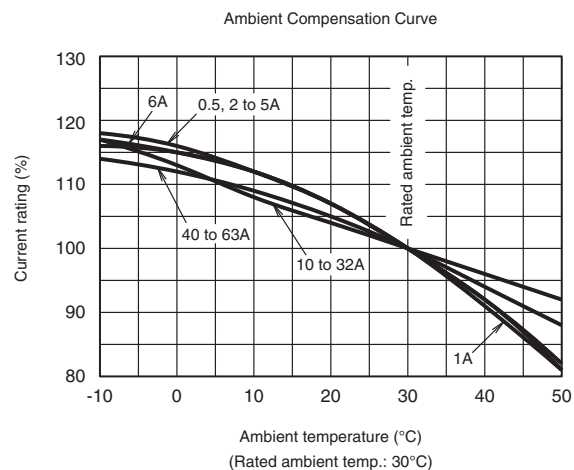
### Operating Characteristics



### Outer Dimensions



### Ambient Compensation Curve



\* In case of installing breakers side by side, reduce the passing current to under 80% of the rated current.



## Accessories

### Functions of Accessories

Accessory	Function
<b>AX</b> Auxiliary switch	Electrically indicates the On/Off status of the circuit breaker.
<b>SHT</b> Shunt trip	Electrically trips the circuit breaker from a remote location. Permissible working voltage is 100% of the rated voltage.

### Specifications

Model	AX
Contact	Configuration
	1A1B
Contact capacity	
220VAC 6A	
Connection	Lead wire



### Specifications

Model	SHT			
Cut-off switch	Equipped			
Voltage	12VDC	24VDC	48VDC	220VAC
Input power requirement [VA]	40	110	300	250
Operating time [ms]	<20			
Connection	Solderless terminal			

\*Secure a sufficient input power supply so that the voltage will not drop below the permissible working voltage (100% of the rated voltage).

\*The operating time denotes the time from when the rated voltage is applied to SHT until the time the main contact of the breaker starts to open.

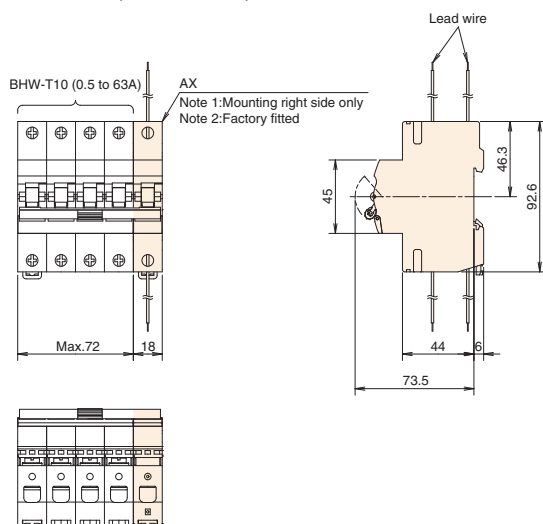
### Combinations of Accessories

Accessory connection combinations	AX	
	SHT	

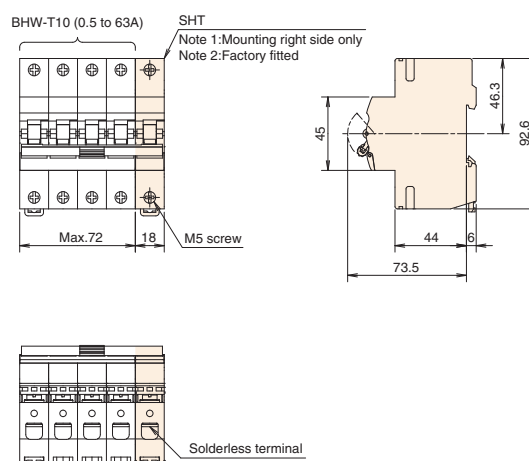


### Outer Dimensions

BHW-T10 (0.5 to 63A) with AX



BHW-T10 (0.5 to 63A) with SHT



# Characteristics and Dimensions

## Miniature Circuit Breakers (MCB)

### BHW-T10 (80 to 125A)

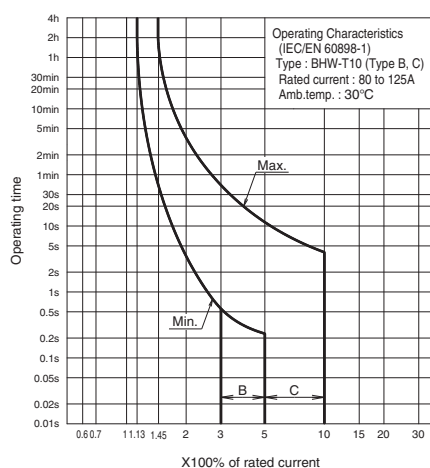


Model		BHW-T10			
No. of poles [P]		1	2	3	4
Instantaneous tripping		Type B, C			
Rated insulation voltage $U_i$ [V]		690			
Rated current $I_n$ [A]	Amb. temp.	IEC/EN 60898-1*	30°C	80, 100, 125	
		IEC/EN 60947-2	40°C		
Rated short-circuit capacity [kA]		IEC/EN 60898-1* (Icn)	AC 240/415V	10	
		IEC/EN 60947-2 (Icu/Ics)	AC 240/415V	10/7.5	

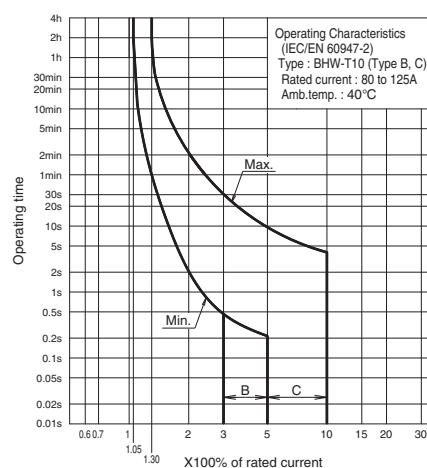
\* This standard will be conformed shortly. Please contact our branch office for release period and more details.

### Operating Characteristics

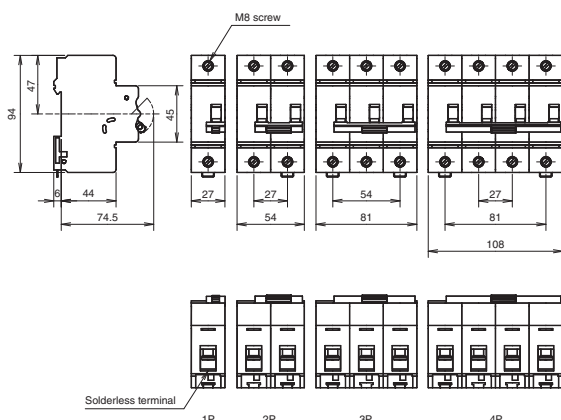
IEC/EN60898-1



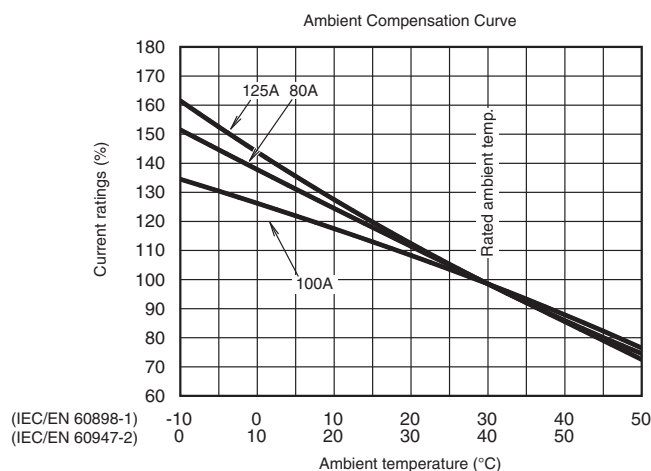
IEC/EN60947-2



### Outer Dimensions



### Ambient Compensation Curve



\* In case of installing breakers side by side, reduce the passing current to under 80% of the rated current.

## Accessories

### Functions of Accessories

Accessory	Function
<b>AL</b> Alarm switch <sup>*1</sup>	Electrically indicates the trip status of the circuit breaker.
<b>AX</b> Auxiliary switch	Electrically indicates the On/Off status of the circuit breaker.
<b>SHT</b> Shunt trip <sup>*1</sup>	Electrically trips the circuit breaker from a remote location. Permissible working voltage is 70% of the rated voltage.

### Specifications

Accessory	AL <sup>*1</sup>	AX
Model	AL-1BHW	AX-1BHW
Contact	Configuration	1C
	Contact capacity	230VAC 5A
Connection	Solderless terminal	Solderless terminal

Accessory	SHT <sup>*1*2</sup>	
Model	SHTD024-1BHW	SHTA240-1BHW
Voltage	24VDC	240VAC
Operating time [ms]	<20	
Connection	Solderless terminal	

\*1: This accessory will be released shortly. Please contact our branch office for release period and more details.

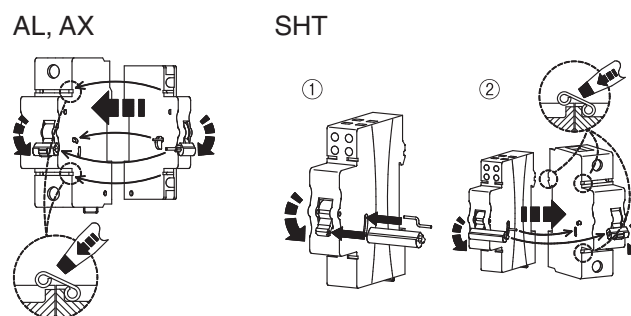
\*2: Secure a sufficient input power supply so that the voltage will not drop below the permissible working voltage (70% of the rated voltage).

The operating time denotes the time from when the rated voltage is applied to SHT until the time the main contact of the breaker starts to open.

### Combinations of Accessories

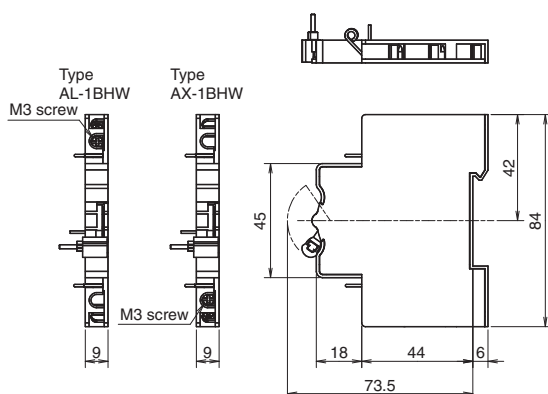
Accessory connection combinations	AL	
	AX	
	SHT	
	AL+SHT	
	AX+SHT	

### Installation of Accessories

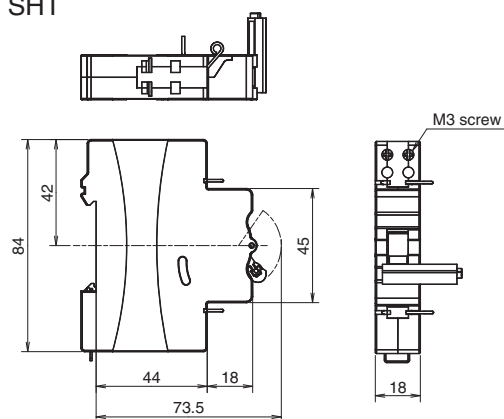


### Outer Dimensions

AL, AX



SHT



# Characteristics and Dimensions

## Residual Current Circuit Breakers (RCCB)

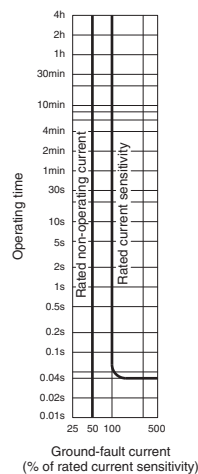
### BVW-T



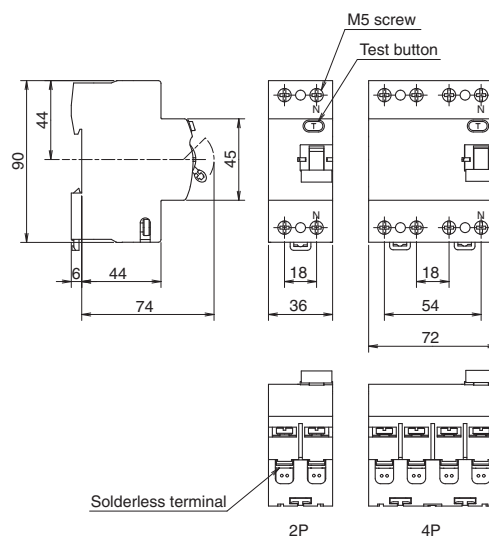
Model	BVW-T			
No. of poles [P]	2(1+N) <sup>*1</sup>	4(3+N) <sup>*1</sup>	2(1+N) <sup>*1</sup>	4(3+N) <sup>*1</sup>
Rated voltage [VAC]	240	415	240	415
Rated current $I_n$ [A] at ambient temperature 30°C	16, 25, 32, 40, 63		80, 100	
Rated current sensitivity $I_{\Delta n}$ [mA]	30, 100, 300		30, 100, 300	
Max. operating time at 5 $I_{\Delta n}$ [s]	0.04		0.04	
Pulsating current sensitivity	Type AC		Type AC	
Residual operation	Independent of line voltage		Independent of line voltage	
Rated making and breaking capacity $I_m$ [A]	500(In 16, 25, 32, 40A) 630(In 63A)		800(In 80A) 1000(In 100A)	
Rated conditional short-circuit current $I_{nc}$ [kA]	6		10	
Rated residual making and breaking capacity $I_{\Delta m}$ [A]	500(In 16, 25, 32, 40A) 630(In 63A)		800(In 80A) 1000(In 100A)	
Rated conditional residual short-circuit current $I_{\Delta c}$ [kA]	6		10	

\*1: N pole is a switched neutral pole (without overcurrent release device).

### Earth-Leakage Tripping Characteristics



### Outer Dimensions





# Characteristics and Dimensions

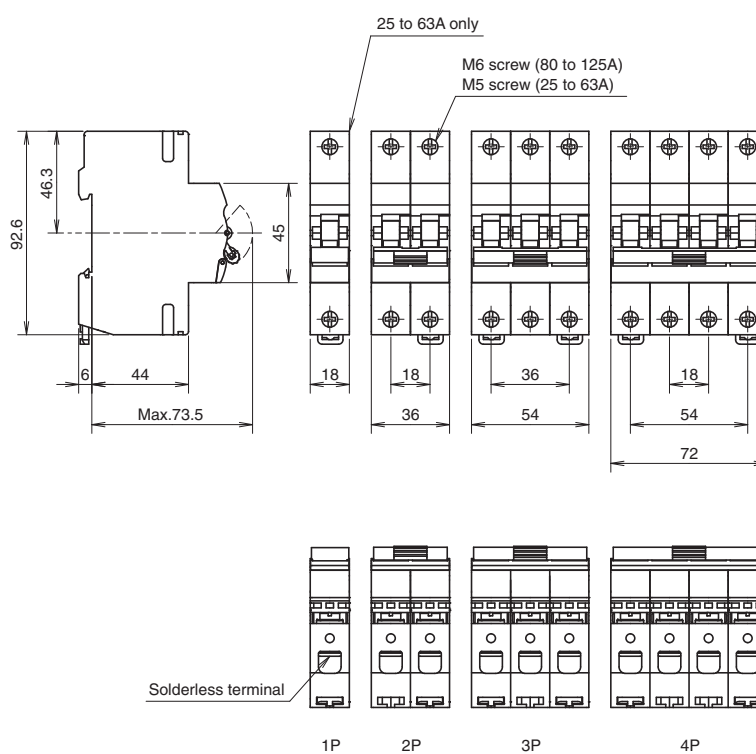
## Isolating Switches

### KBW-T



Model	KBW-T						
No. of poles [P]	1	2	3	4	2	3	4
Utilization category	AC-22A				AC-22A		
Rated insulation voltage $U_i$ [V]	660				660		
Rated voltage $U_e$ [VAC]	240	240/415			240/415		
Rated current $I_n$ [A] at ambient temperature 30°C	25, 40, 63				80, 100, 125		
Short-time withstand current $I_{cw}$ [A]	12×I <sub>n</sub> , 1s				12×I <sub>n</sub> , 1s		
Short-circuit making capacity $I_{cm}$ [A]	12×I <sub>n</sub>				12×I <sub>n</sub>		

### Outer Dimensions



## Ordering Information

### ●MCB

Please specify items with ☐

Model	Number of poles	Operating characteristics	Rated current	Internal accessory	Quantity
BHW-T10	1P	Type C	16A	SHT(12VDC)	12
BHW-T10	1P, 1P+N, 2P, 3P, 3P+N, 4P	Type B Type C Type D	0.5, 1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63A	SHT(12VDC) SHT(24VDC) SHT(48VDC) SHT(220VAC) AX	Shunt trip Auxiliary switch

Model	Number of poles	Operating characteristics	Rated current	Quantity
BHW-T10	1P	Type C	80A	8
BHW-T10	1P, 2P, 3P, 4P	Type B Type C	80, 100, 125A	

Model	Quantity
AL-1BHW	12
AL-1BHW	Alarm switch
AX-1BHW	Auxiliary switch
SHTD024-1BHW 12VDC	Shunt trip
SHTA240-1BHW 240VAC	

### ●RCCB

Model	Number of poles	Rated current	Rated sensitivity current	Quantity
BVW-T	2P	63A	30mA	5
	2P, 4P	16, 25, 32, 40, 63, 80, 100A	30, 100, 300mA	

### ●Isolating Switches

Model	Number of poles	Rated current	Quantity
KBW-T	1P	63A	12
	1P, 2P, 3P, 4P	25, 40, 63, 80, 100, 125A	

## Information from Fukuyama Works

<http://www.MitsubishiElectric.co.jp/haisei/lvs/>



### Four Key Features

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**MEMO**

# MINIATURE CIRCUIT BREAKERS, RESIDUAL CURRENT CIRCUIT BREAKERS & ISOLATING SWITCHES

## Sales Network

Country / Region	Corporation Name	Address	Telephone
Australia	Mitsubishi Electric Australia Pty. Ltd.	348 Victoria Road, Rydalmere, N.S.W. 2116, Australia	+61-2-9684-7777
Bangladesh	PROGRESSIVE TRADING CORPORATION ELECTRO MECH AUTOMATION& ENGINEERING LTD.	Haque Tower, 2nd floor, 610/11, Jubilee Road, Chittagong, Bangladesh Purana Paltan Lane, (VIP Road), Rokeya Mansion(6th floor), Room#702,Dhaka-1000, Bangladesh	+880-31-624-307 +880-28-321-791
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Belgium	Koning & Hartman B.V.	Woluwelaan 31, BE-1800 Vilvoorde, Belgium	+32(0)2/2570240
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**For Safety :** Please read the instruction manual carefully before using the products in this catalog.

Wiring and connection must be done by the person having a specialized knowledge of electric construction and wiring.



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



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