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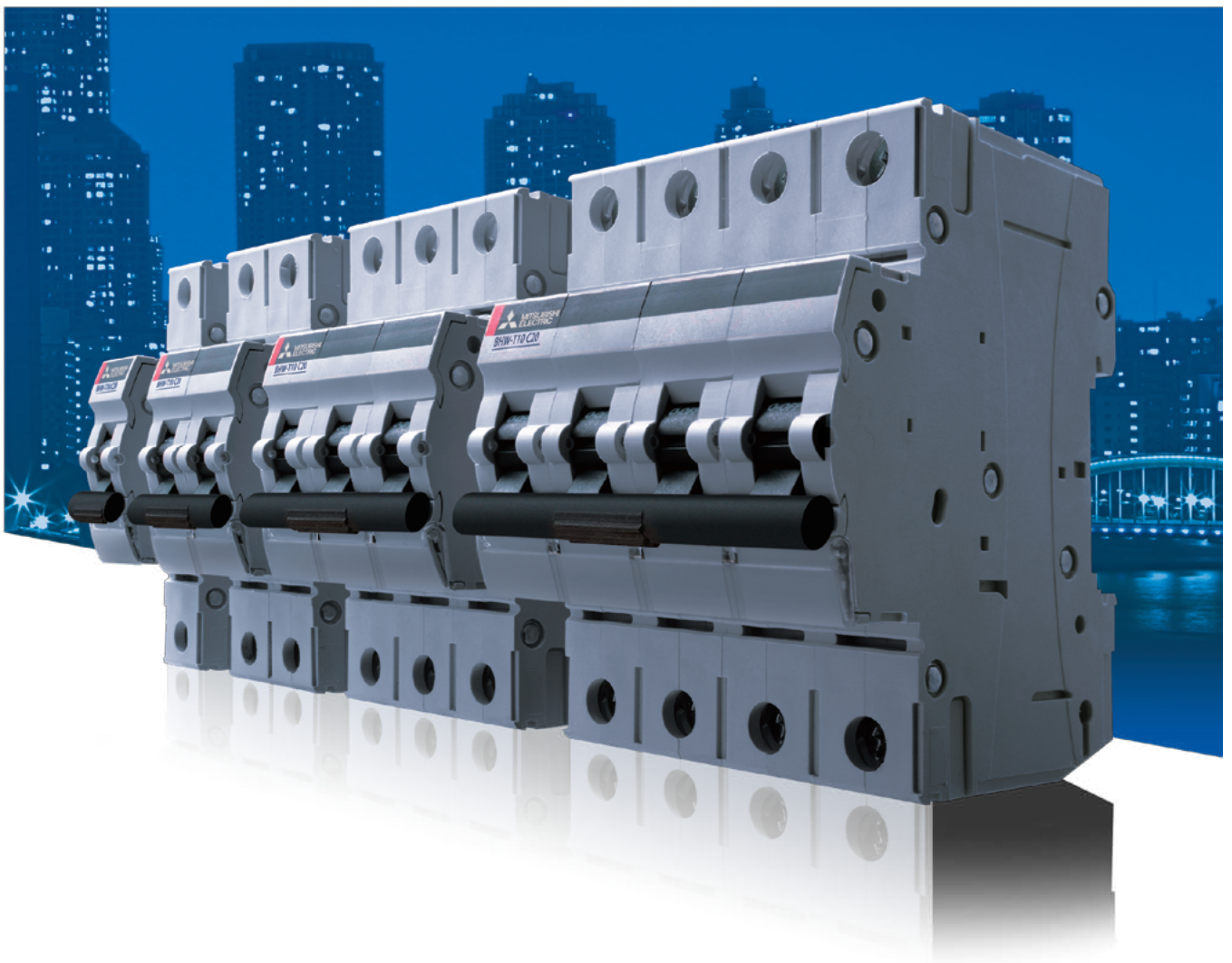


**MITSUBISHI  
ELECTRIC**

*Changes for the Better*

FACTORY AUTOMATION

# Miniature Circuit Breakers Residual Current Circuit Breakers Isolators **DIN Series**



**Empowering  
Industries**

**19  
A**

*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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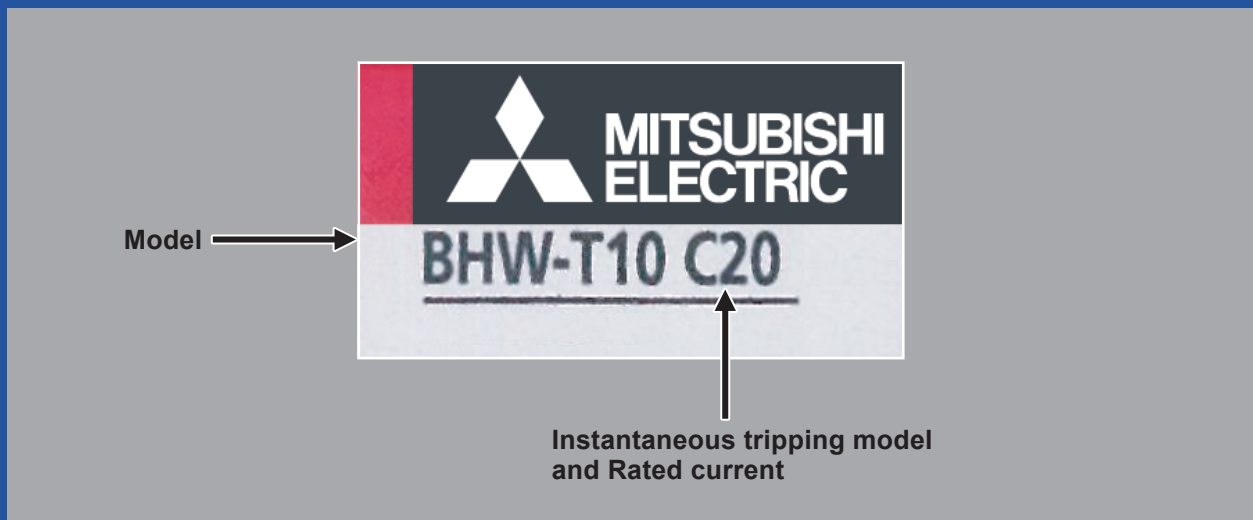
## Features

- (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 100A for MCBs, 100A for RCCBs
- (5) Accessories suitable for field fitted for MCBs (80 to 100A)

## Product Line-up

Model		No of poles (P)	Rating	Instantaneous tripping	Voltage (V)	Short-Circuit capacity (kA)	Compliance standard
MCBs	BHW-T10	1, 2(1+N), 2, 3, 4(3+N), 4	6 to 63A	TYPE B	240/415AC	10	IEC 60898-1
		1, 2(1+N), 2, 3, 4(3+N), 4	0.5 to 63A	TYPE C, D	240/415AC		IEC 60898-1
		1, 2, 3, 4	80 to 100A	TYPE B, C	240/415AC	10	IEC 60898-1 IEC 60947-2
RCCBs	BVW-T	2(1+N), 4(3+N)	16 to 100A	–	240/415AC	–	IEC 61008-1
Isolators	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	MCBs, Isolators	-10 to +40°C
	RCCBs	-25 to +40°C
Frequency	50/60Hz	

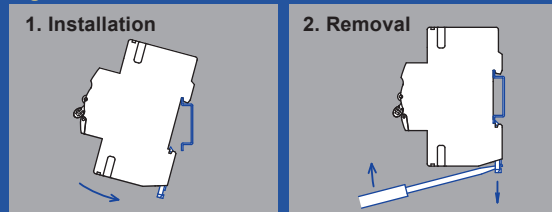


## Points to Note

### 1 Installation & Removal

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-1BHW, AX-05BHW, AX-1BHW
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 100A)

### 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 RCCBs 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 RCCBs.

### 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 MCBs 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.

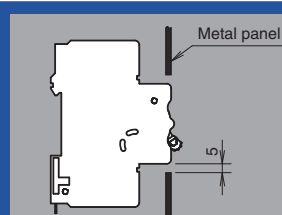
### 7 Connection with solderless terminal

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 MCBs (80 to 100A), be sure to secure a distance of more than 5mm in between.



# Specifications

Model		MCBs													
Image		BHW-T10													
No. of poles [P]		1	2(1+N) <sup>*1</sup>	2	3	4(3+N) <sup>*1</sup>	4	1	2(1+N) <sup>*1</sup>	2	3	4(3+N) <sup>*1</sup>	4		
Instantaneous tripping <sup>*2</sup>		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					
Energy limiting class <sup>*3</sup>		Class 3													
Number of operating cycles	Without current		4,000												
	With current		4,000												
Dimensions [mm]		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)	Auxiliary switch (AX) <sup>*4</sup>		○												
	Shunt trip (SHT) <sup>*5</sup>		○												
Terminal connection	Solderless terminal														
Based on standard	IEC/EN 60898-1														
CE marking	○														


- \*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: Field fitted

- \*5: Factory fitted
- \*6: In case of installing breakers side by side, reduce the passing current to under 80% of the rated current.

Model		MCBs												
Image		BHW-T10												
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											
		IEC/EN 60947-2	40°C	80, 100										
Rated short-circuit capacity [kA]	IEC/EN 60898-1 (Icn)	AC	240V	10										
			240/415V	10										
			415V	–	10									
			IEC/EN 60947-2 (Icu/Ics)	AC	240V	10/7.5								
			415V	–	10/7.5									
Rated impulse withstand voltage $U_{imp}$ [kV]		6												
Utilization category		A												
Pollution degree		3												
Number of operating cycles	Without current		10,000											
	With current		4,000											
Dimensions (mm)		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 [mm <sup>2</sup> ]	10 to 35													
Mass [kg]	0.21	0.42	0.63	0.84										
Accessories (optional) <sup>*2</sup>	Alarm switch (AL)		○											
	Auxiliary switch (AX)		○											
Terminal connection	Solderless terminal													
Based on standard	IEC/EN 60898-1, 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.

## Specifications

		RCCBs	
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 $I_n$ [A] at ambient temperature 30°C		16, 25, 32, 40, 63, 80, 100	
Rated current sensitivity $I_{\Delta n}$ [mA]		30, 100, 300	
Max. operating time at 5 $I_{\Delta n}$ [s]		0.04	
Pulsating current sensitivity		Type AC	
Residual operation		Independent of line voltage	
Rated making and breaking capacity $I_m$ [A]		500( $I_n$ 16, 25, 32, 40A), 630( $I_n$ 63A), 800( $I_n$ 80A), 1000( $I_n$ 100A)	
Rated conditional short-circuit current $I_{nc}$ [kA]		10	
Rated residual making and breaking capacity $I_{\Delta m}$ [A]		500( $I_n$ 16, 25, 32, 40A), 630( $I_n$ 63A), 800( $I_n$ 80A), 1000( $I_n$ 100A)	
Rated conditional residual short-circuit current $I_{sc}$ [kA]		10	
Number of operating cycles	Without current	4,000 <sup>*2</sup>	
	With current	2,000	
Dimensions [mm]	a	36	72
	b		90
	c		44
	ca		74
Mounting		IEC 35mm rail	
Applicable wire size [mm <sup>2</sup> ]		1 to 35	
Mass [kg]		0.22	0.44
Accessories		Not available	
Terminal connection		Solderless terminal	
Based on standard		IEC/EN 61008-1	
CE marking		○	

\*1: N pole is a switched neutral pole.

\*2: In case of ampere rating 32, 40, 63, 80 and 100A, the number of operating cycles is 3,000.

		Isolators							
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			
Dimensions [mm]	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 (MCBs)

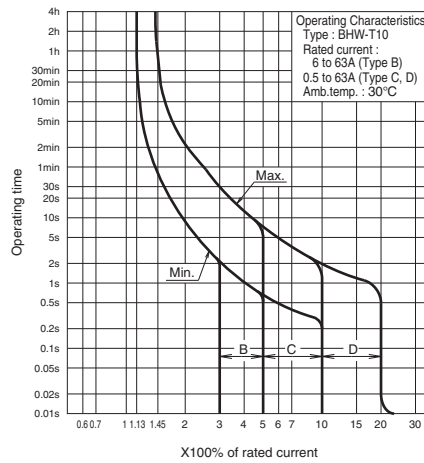
### BHW-T10 (0.5 to 63A)



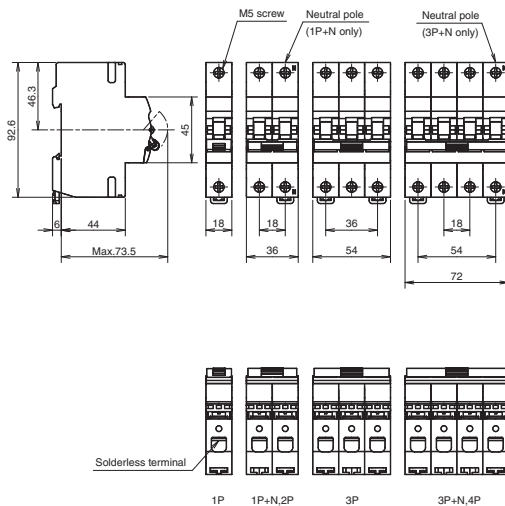
Model		BHW-T10														
No. of poles [P]		1	2(1+N) <sup>*1</sup>	2	3	4(3+N) <sup>*1</sup>	4	1	2(1+N) <sup>*1</sup>	2	3	4(3+N) <sup>*1</sup>	4			
Instantaneous tripping		Type B						Type C,D								
Rated insulation voltage $U_i$ [V]		660						660								
Rated current $I_n$ [A] at ambient temperature 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).

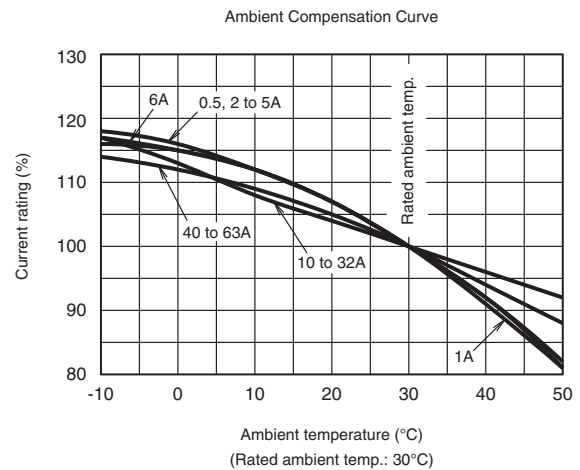
### Operating Characteristics



### 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

Accessory		AX
Model		AX-05BHW
Contact	Configuration	1C
	Contact capacity	230VAC 5A
Connection		Solderless terminal
Fitment		Field fitted

Accessory		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			
Fitment		Factory fitted			

\*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.

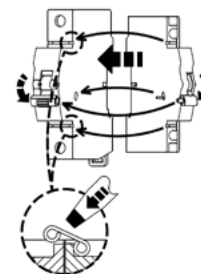
### Combinations of Accessories

Accessory connection combinations	AX	
	SHT	
	AX + SHT	



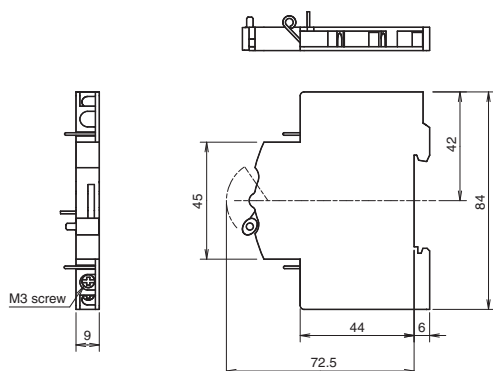
### Installation of Accessories

AX

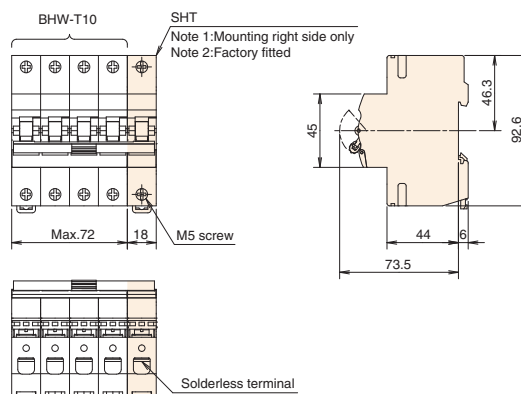


### Outer Dimensions

AX



SHT



# Characteristics and Dimensions

## Miniature Circuit Breakers (MCBs)

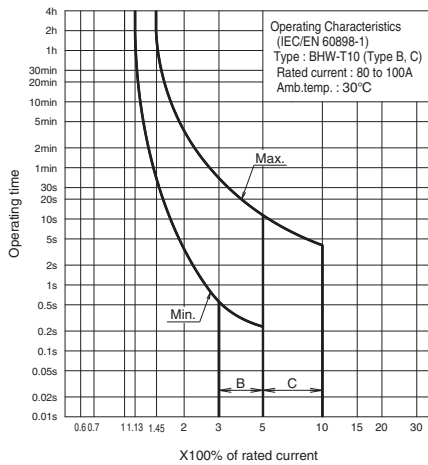
### BHW-T10 (80 to 100A)



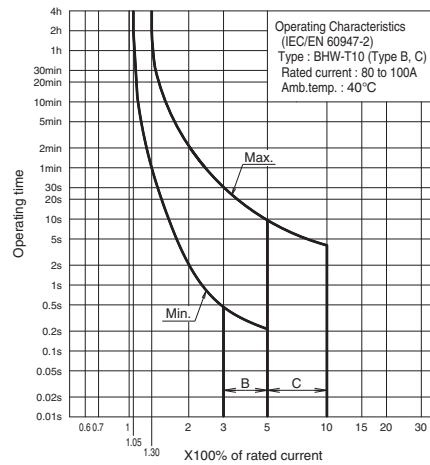
Model				BHW-T10				
No. of poles [P]				1	2	3	4	
Instantaneous tripping				Type B, C				
Rated insulation voltage $U_i$ [V]				690				
Rated current $I_n$ [A]	Amb. temp.	IEC/EN 60898-1	30°C	80, 100				
		IEC/EN 60947-2	40°C					
Rated short-circuit capacity [kA]	IEC/EN 60898-1 (Icn)	AC	240V	10				
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

### Operating Characteristics

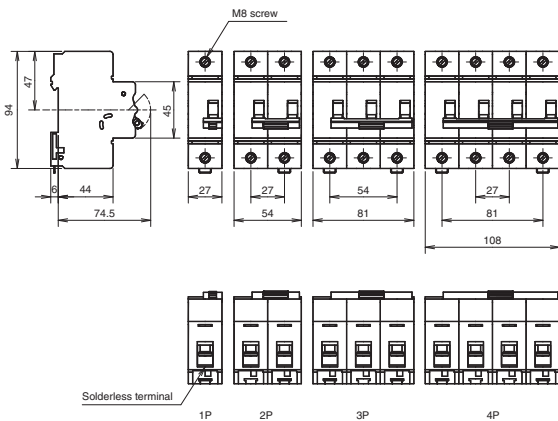
IEC/EN 60898-1



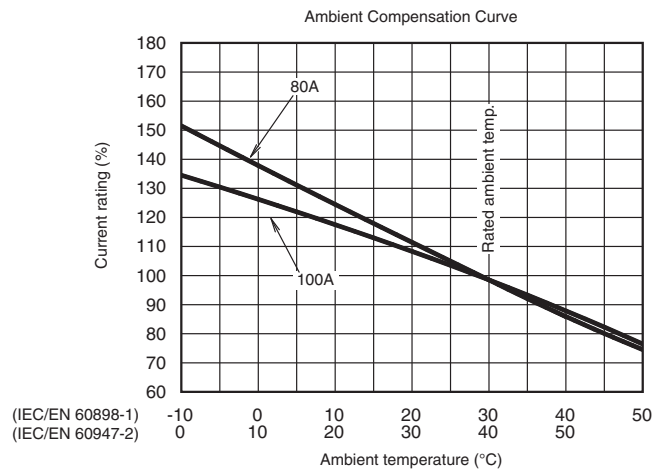
IEC/EN 60947-2



### 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	Electrically indicates the trip status of the circuit breaker.
<b>AX</b> Auxiliary switch	Electrically indicates the On/Off status of the circuit breaker.

## Specifications

Accessory		AL	AX
Model		AL-1BHW	AX-1BHW
Contact	Configuration	1C	1C
	Contact capacity	230VAC 5A	230VAC 5A
Connection		Solderless terminal	Solderless terminal
Fitment		Field fitted	Field fitted

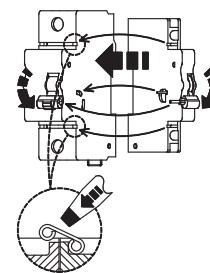
## Combinations of Accessories

Accessory connection combinations	AL	
	AX	



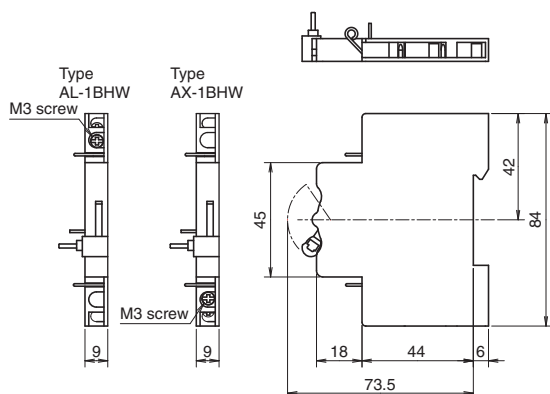
## Installation of Accessories

AL, AX



## Outer Dimensions

AL, AX



# Characteristics and Dimensions

## Residual Current Circuit Breakers (RCCBs)

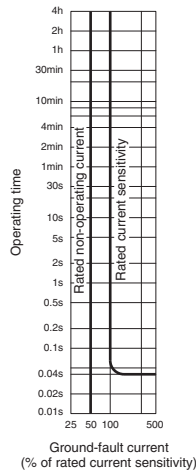
### BVW-T



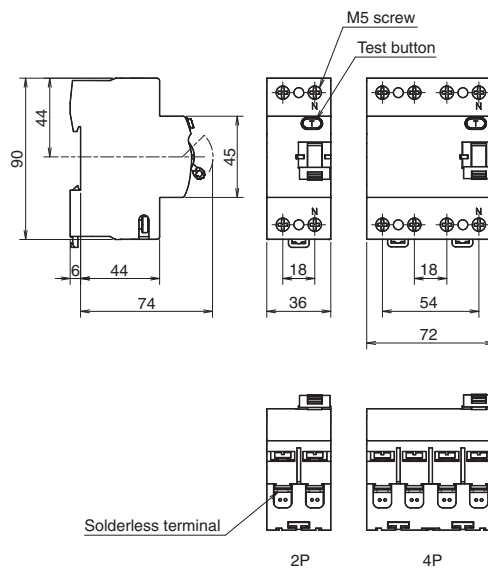
Model	BVW-T	
No. of poles [P]	$2(1+N)^{*1}$	$4(3+N)^{*1}$
Rated voltage [VAC]	240	415
Rated current $I_n$ [A] at ambient temperature 30°C	16, 25, 32, 40, 63, 80, 100	
Rated current sensitivity $I_{\Delta n}$ [mA]	30, 100, 300	
Max. operating time at $5 I_{\Delta n}$ [s]	0.04	
Pulsating current sensitivity	Type AC	
Residual operation	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]	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]	10	

\*1: N pole is a switched neutral pole.

### Earth-Leakage Tripping Characteristics



### Outer Dimensions



# Characteristics and Dimensions

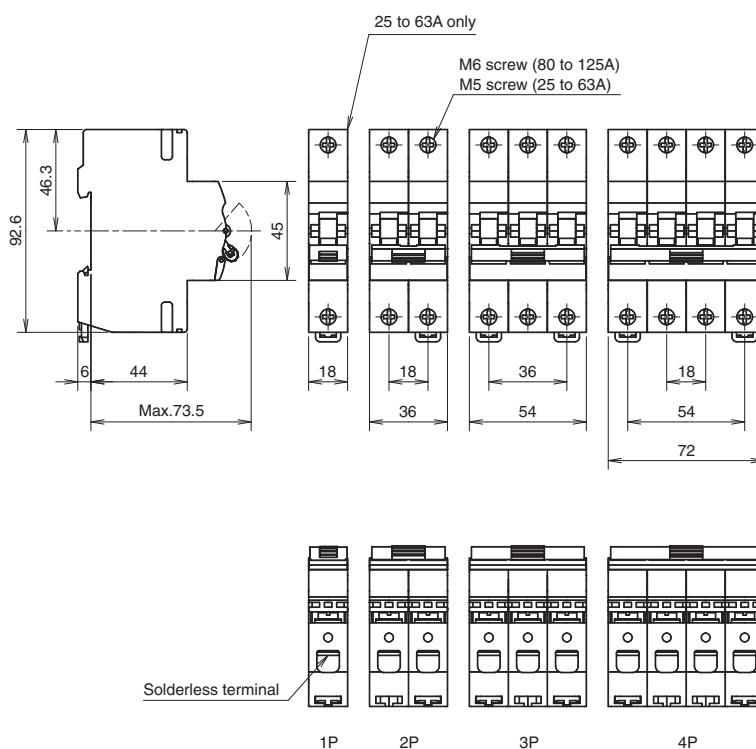
## Isolators

### 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]	12xI <sub>n</sub> , 1s				12xI <sub>n</sub> , 1s		
Short-circuit making capacity $I_{cm}$ [A]	12xI <sub>n</sub>				12xI <sub>n</sub>		

### Outer Dimensions



## Ordering Information

### ●MCBs

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) Shunt trip	

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	

Model	Quantity
AL-1BHW	12
AL-1BHW	Alarm switch
AX-05BHW	Auxiliary switch
AX-1BHW	Auxiliary switch

### ●RCCBs

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	

### ●Isolators

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

### FA Global Site

<http://www.mitsubishielectric.com/fa/products/lvd/lvcb/index.html>



### Four Key Features

- ① Product Information
- ② Downloads
- ③ News
- ④ Support

# MEMO

# MINIATURE CIRCUIT BREAKERS, RESIDUAL CURRENT CIRCUIT BREAKERS & ISOLATORS

## 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	Haque Tower, 2nd floor, 610/11, Jubilee Road, Chittagong, Bangladesh	+880-31-624-307
	ELECTRO MECH AUTOMATION& ENGINEERING LTD.	Purana Paltan Lane, (VIP Road), Rokeya Mansion(6th floor), Room#702,Dhaka-1000, Bangladesh	+880-28-321-791
Belarus	Tehnikon	Oktyabrskaya 19, Off. 705, BY-220030 Minsk, Belarus	+375(0)17/210 46 26
Belgium	Koning & Hartman B.V.	Woluwelaan 31, BE-1800 Vilvoorde, Belgium	+32(0)2/2570240
Cambodia	DHINIMEX CO.,LTD	#245, St. Tep Phan, Phnom Penh, Cambodia	+855-23-997-725
Chile	Rhona S.A.	Vte. Agua Santa 4211 Casilla 30-D (P.O. Box) Vina del Mar, Chile	+56-32-2-320-600
China	Mitsubishi Electric Automation (China) Ltd.	Mitsubishi Electric Automation Building, No.1386 Hongqiao Road, Shanghai, 200336	+86-21-2322-3030
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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 have 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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