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FACTORY AUTOMATION

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



*Breaking Through The*



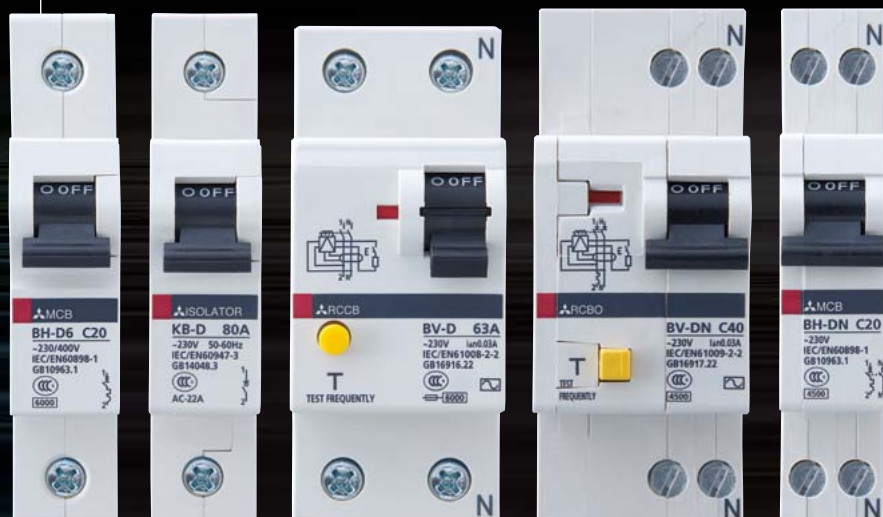
Introducing the DIN Series...

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

DIN Series

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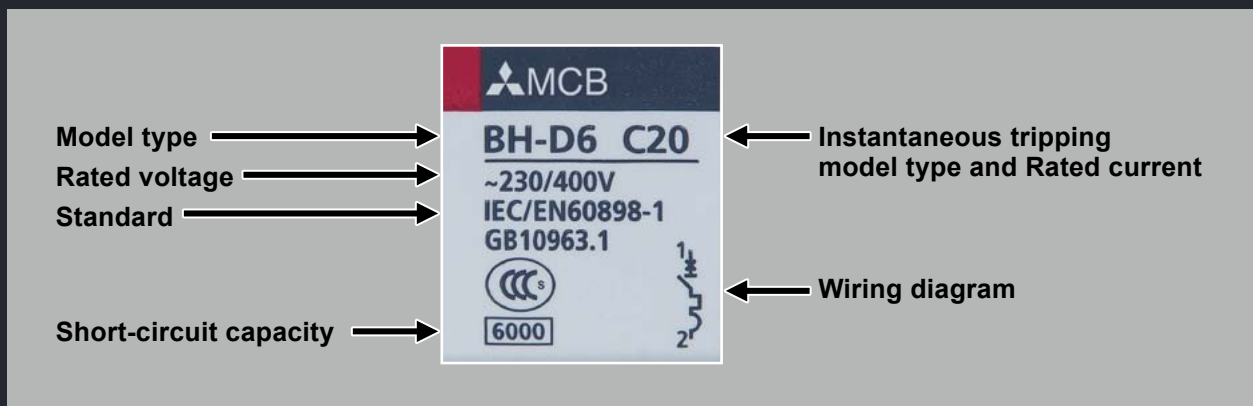
## Features

- (1) All models fully comply with IEC regulations
- (2) Units can be mounted on a standard 35mm IEC rail
- (3) Residual current circuit breakers use an original Mitsubishi Electric IC securing reliable earth-leakage protection
- (4) High current-limiting performance
- (5) Compliance with IP2X protection rating
- (6) All models are compatible with reverse connection
- (7) DC circuit-compatible model (BH-D10) added to product line-up

## Product Line-up

Model type		No of poles (P)	Rating	Instantaneous tripping	Voltage (V)	Short-Circuit capacity (kA)	Compliance standard
MCB	BH-D6	1, 2, 3, 4(3+N)	0.5~63A	TYPE B, C, D	230/400AC	6	IEC60898-1
		1+N	0.5~40A	TYPE B, C	230AC		
	BH-D10	1, 2, 3, 4(3+N)	0.5~63A	TYPE B, C, D	230/400AC	10	IEC60898-1
	BH-D10 (For DC)	1	0.5~63A	TYPE B, C	125DC	10	IEC60898-2
					230/400AC	6	
		2			250DC	10	
BH-DN	1+N	6~20A	TYPE C	230AC	4.5	IEC60898-1	
RCCB	BV-D	2(1+N), 4(3+N)	25, 40, 63A	–	230/400AC	–	IEC61008-2-2
RCBO	BV-DN	1+N	6~40A	TYPE C	230AC	4.5	IEC61009-2-2
Isolating Switch	KB-D	1, 2, 3, 4(3+N)	32, 63, 80A	–	230/400AC	–	IEC60947-3

## Explanation of Markings (Example Model Type : BH-D6)



## Technical Specifications

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

# DIN Series

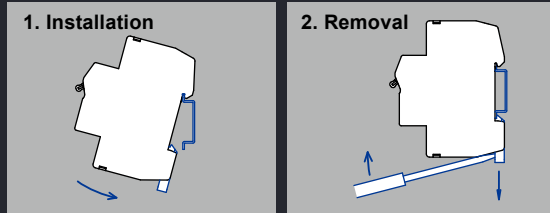


## Points to Note

### 1 Installation

Standard IEC35mm 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 type
M5	1.7~2.5	BH-D6, BH-D10, BV-D, KB-D SHTA400-05DLS, SHTD048-05DLS
M4	1.0~1.5	BH-DN, BV-DN
M3.5	0.8~1.0	AL-05DLS, AX-05DLS, ALAX-05DLS AX2-05DLS

### 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 or RCBO must be tripped within the specified time.
- (4) The handle will move to the Off position.
- (5) The earth-leakage indication changes from white to red.

### 5 Withstand Voltage Test

(1) Withstand voltage test: The voltage applied to the main circuit during the withstand voltage test is 2,000VAC (effective for 1min). Do not conduct a withstand voltage tests using voltages exceeding 2,000VAC.

(2) Measurement of insulation resistance and withstand voltage test

Please note the following restrictions (① and ② below) that apply when using earth-leakage circuit breakers.

① Measuring insulation resistance:

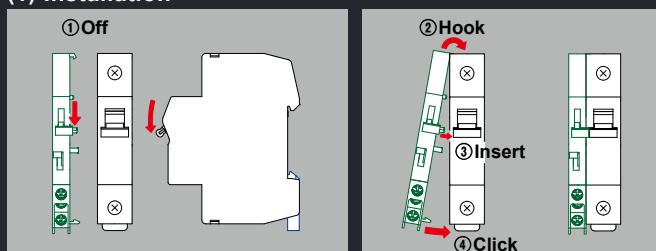
- Do not use a 1000V insulation resistance tester. Please use a 500V insulation resistance tester.
- The “▲” marks in the table are based on minimum insulation resistance values.

② Testing withstand voltage: The “X” marks in the table below indicate that the test voltage is not to be applied to that model. (If a test voltage is accidentally applied to one of these models, do not reuse the product regardless of whether or not they were tripped.)

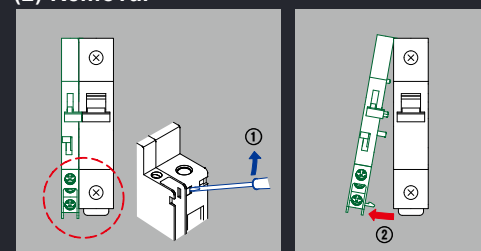
Measuring position		Test	Insulation resistance measurement		Withstand voltage test	
			ON	OFF	ON	OFF
Handle position			○	○	○	○
Between main circuit live part and ground			○	○	○	○
Between different poles	On line side	BV-D 2P BV-DN	▲	○	×	○
		BV-D 4P Between right pole (terminal symbol 6) and N pole Between poles other than above	▲	○	×	○
	On load side	BV-D 2P BV-DN	▲	▲	×	×
		BV-D 4P Between right pole (terminal symbol 6) and N pole Between poles other than above	○	○	○	○
Between terminals on line side and load side			—	○	—	○

### 6 Installation of Accessories (AX, AL, SHT)


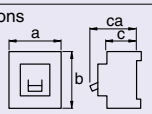
#### (1) Installation



#### (2) Removal




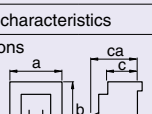
## Specifications


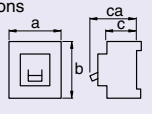
		RCCB	
Type		BV-D	
Image			
No. of poles [P]		$2(1+N)^{-1}$	$4(3+N)^{-1+3}$
Rated current [A] at ambient temperature 30°C		25, 40, 63	
Rated voltage [VAC]		230	230/400
Rated current sensitivity $I\Delta n$ [mA]		30, 300	
Max. operating time at $5I\Delta n$ [s]		0.04	
Pulsating current sensitivity		Type AC	
Rated conditional short-circuit current [kA]		6	
Dimensions [mm]		a	36
		b	85
		c	44
		ca	70
Mass [kg]		0.2	0.35
Rated making and breaking capacity $I_m$ [A]		500(In 25,40A), 630(In63A)	
Rated conditional short-circuit current $I_{nc}$ [kA]		6	
Rated residual making and breaking capacity $I_{\Delta m}$ [A]		500(In 25,40A), 630(In63A)	
Rated conditional residual short-circuit current $I_{\Delta c}$ [kA]		6	
Number of operating cycles	Without current	8,000	
	With current	8,000	
Type of overcurrent release		-	
Mounting		IEC35mm rail	
Applicable wire size		1 to 25mm <sup>2</sup>	
Terminal connection		Solderless	
Based on standard		IEC61008-2-2	
CE marking		EN61008-2-2 : Self-declaration	
CCC		GB16916.22	

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

\*2: Type C: (5 In <, ≤ 10 In)

\*3: For use to three phase 4-wire type. When using, it be sure to connect the neutral wire to the neutral phase. Not available for use to three phase 3-wire type.

		RCBO	
Type		BV-DN	
Image			
No. of poles [P]		$2(1+N)^{-1}$	
Rated current [A] at ambient temperature 30°C		6, 10, 16, 20, 25, 32, 40	
Rated voltage [VAC]		230	
Rated current sensitivity $I\Delta n$ [mA]		30, 100, 300	
Max. operating time at $5I\Delta n$ [s]		0.04	
Pulsating current sensitivity		Type AC	
Breaking capacity [kA] sym. (IEC 61009)		4.5	
Tripping characteristics		Type C <sup>2</sup>	
Dimensions [mm]		a	36
		b	88
		c	44
		ca	70
Mass [kg]		0.19	
Automatic tripping device		Thermal, magnetic	
Number of operating cycles	Without current	20,000	
	With current	20,000 (In 6,10,16,20A) 15,000 (In 25A) 10,000 (In 32,40A)	
Type of overcurrent release		Thermal-magnetic	
Mounting		IEC35mm rail	
Applicable wire size		1 to 16mm <sup>2</sup>	
Terminal connection		Solderless	
Based on standard		IEC61009-2-2	
CE marking		EN61009-2-2 : Self-declaration	
CCC		GB16917.22	

		Isolating switch			
Type		KB-D			
Image					
No. of poles [P]		1	2	3	4(3+N)
Utilization category		AC-22A			
Rated current [A] at ambient temperature 30°C		32, 63, 80			
Rated voltage [VAC]		230	400		
Short time withstand current [A]		20 × In, 1s			
Short-circuit making capacity [A]		20 × In			
Dimensions [mm]		a	18	36	54
		b	87		
		c	44		
		ca	70		
Mass [kg]		0.09	0.18	0.27	0.36
Optional accessories		Insulating barrier	—	1 pc.	2 pcs.
Number of operating cycles	Without current	20,000			
	With current	3,000			
Mounting		IEC35mm rail			
Applicable wire size		1 to 25mm <sup>2</sup>			
Terminal connection		Solderless			
Based on standard		IEC60947-3			
CE marking		EN60947-3 : Self-declaration			
CCC		GB14048.3			

## Accessories

### Functions of Accessories

Internal 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.
<b>SHT</b> Shunt trip	Electrically trips the circuit breaker from a remote location. Permissible working voltages are 70 to 110% of the AC rated voltage or 70 to 125% of the DC rated voltage.

### Equipping of Accessories

Accessory \ Model name	BH-D6	BH-D10	BH-DN, BV-DN, KB-D, BV-D
<b>AL</b>	○	○	-
<b>AX</b>	○	○	
<b>SHT</b>	○	○	

○: Accessory equipped

–: Accessory not equipped

### Specifications

Type		AL	AX	AL+AX	AX+AX
		AL-05DLS	AX-05DLS	ALAX-05DLS	AX2-05DLS
Contact	Configuration	1C	1C	2C	2C
	Contact capacity	400VAC, 2A	230VAC, 5A	120VDC, 0.4A	48VDC, 1.5A
Function	Line	–	–	AX	AX
	Load	AL	AX	AL	AX
Connection		Clamp terminal			
Compliance standard		IEC60947-5-1			

Type	SHT	
	SHTA400-05DLS	SHTD048-05DLS
Cut-off switch	Equipped	
Voltage	110-400VAC	24-48VDC
Input power requirement	110VAC 60VA 230VAC 250VA 400VAC 750VA	24VDC 75VA 48VDC 300VA
Operating time [ms]	<20	
Connection	Solderless terminal	
Compliance standard	IEC60947-2	

\* Secure a sufficient input power supply so that the voltage will not drop below the permissible lower working voltage (70% of the lowest 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.

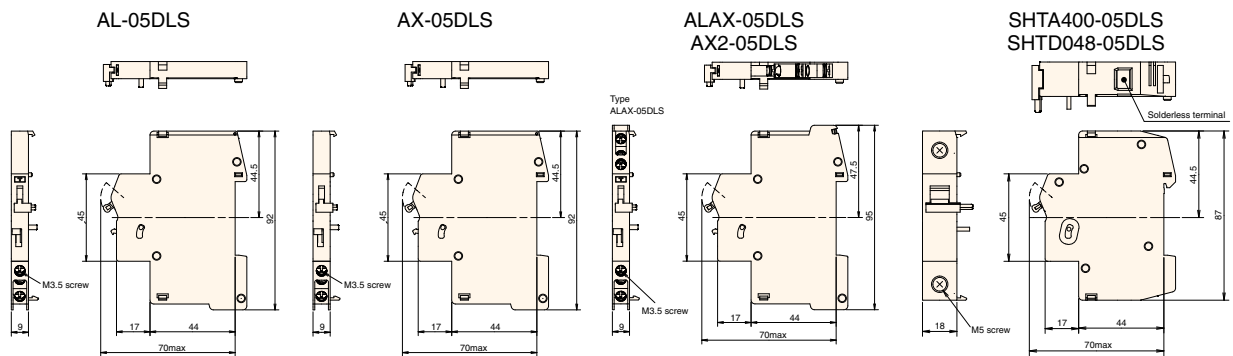
# Accessories

## Combinations of Accessories

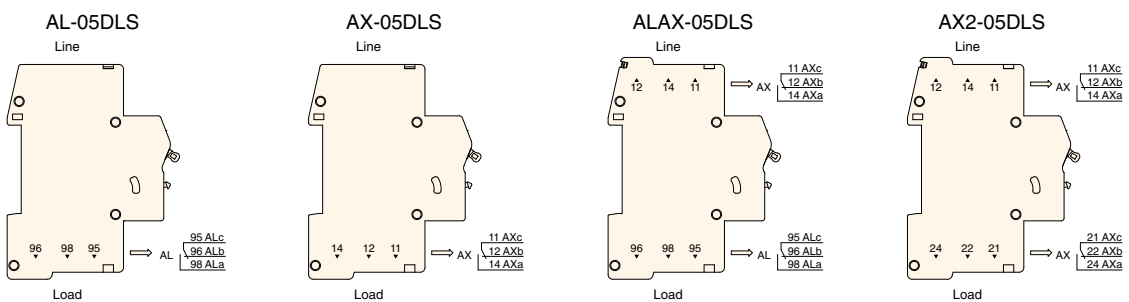
Accessory connection combinations	AL	
	AX	
	2AX	
	ALAX	
	SHT	
	AX+SHT	
	AL+SHT	
	2AX+SHT	
	ALAX+SHT	



## Outer Dimensions



## Connection of Line and Load Side





# Characteristics and Dimensions

## Residual Current Circuit Breakers (RCCB)

### BV-D

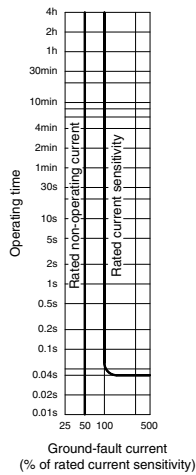


Type	BV-D	
No. of poles [P]	$2(1+N)^{*1}$	$4(3+N)^{*1-2}$
Rated operational voltage $U_e$ [AC V]	230	230/400
Rated current $I_n$ [A] at ambient temperature 30°C	25, 40, 63	
Rated current sensitivity $I\Delta n$ [mA]	30, 300	
Max. operating time at $5I\Delta n$ [s]	0.04	
Pulsating current sensitivity	Type AC	
Residual operation	Dependent on line voltage	
Rated making and breaking capacity $I_m$ [A]	500(In 25,40A) 630(In63A)	
Rated conditional short-circuit current $I_{nc}$ [kA]	6	
Rated residual making and breaking capacity $I_{\Delta m}$ [A]	500(In 25,40A) 630(In63A)	
Rated conditional residual short-circuit current $I_{\Delta c}$ [kA]	6	

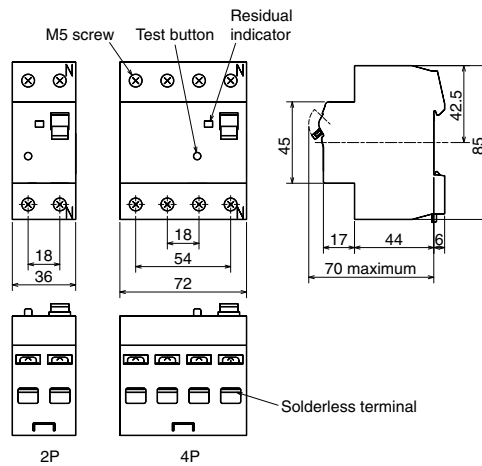
\*1: N pole is a switched neutral pole (without overcurrent release device).

\*2: For use to three phase 4-wire type. When using, it be sure to connect the neutral wire to the neutral phase. Not available for use to three phase 3-wire type.

### Operating Characteristics



### Outer Dimensions



## Ordering Information

Please specify items with

Type name	Number of poles	Rated current	Operating characteristics	Rated voltage	Quantity
BH-D6	1P	6A	Type C	DC	12
BH-D6 BH-D10	1P, 2P, 3P, 4P, 1P+N	0.5, 1, 1.6, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A	Type B Type C Type D	Specify DC voltage when used in DC circuit	

Type name	Number of poles	Rated current	Operating characteristics	Quantity
BH-DN	1P+N	6A	Type C	12
		6, 10, 16, 20A		

Type name	Number of poles	Rated current	Quantity
KB-D	1P	32A	12
	1P, 2P, 3P, 4P	32, 63, 80A	

Type name	Number of poles	Rated current	Rated sensitivity current	Quantity
BV-D	2P	25A	30mA	6
	2P, 4P	25, 40, 63A	30, 300mA	

Type name	Number of poles	Rated current	Rated sensitivity current	Operating characteristics	Quantity
BV-DN	1P+N	6A	30mA	Type C	6
		6, 10, 16, 20, 25, 32, 40A	30, 100, 300mA		

## Information from Fukuyama Works

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



### Four Key Features

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

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

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	ELECTRO MECH AUTOMATION & ENGINEERING LTD.	Purana Paltan Lane, (VIP Road), Rokeya Mansion(6th floor), Room#702,Dhaka-1000, Bangladesh	+880-28-321-791
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Lebanon	Comptoir d'Electricite Generale-Liban	9F Gangseo Hangang xi-tower, 401 Yangcheon-ro, Gangseo-gu, Seoul 07528 Korea	+82-2-3660-9572
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Marocco	SCHIELE MAROC	No. 5 Jalan Pemberita U1/49, Temasya Industrial Park, Glenmarie 40150 Shah Alam, Selangor, Malaysia	+603-5569-3748
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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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