



for a greener tomorrow



FACTORY AUTOMATION

DIN SERIES

Miniature Circuit Breakers,
Residual Current Circuit Breakers

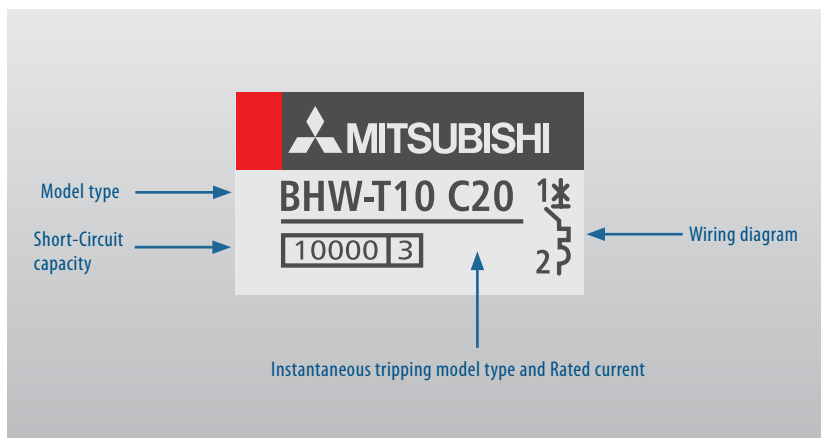


- All models fully comply with IEC regulations
- High current-limiting performance
- Compliance with IP2X protection rating (front surface)
- All models are compatible with reverse connection

Characteristics

Product Line-up

MODEL TYPE	No. of POLES [P]	RATING	INSTANTANEOUS TRIPPING	VOLTAGE [V]	SHORT-CIRCUIT CAPACITY [kA]	COMPLIANCE STANDARD	
MCB	BHW-T10	1, 2, 3, 4	6 to 63 A 0.5 to 63 A	Type B Type C, D	240/415 AC	10	IEC 60898-1
RCCB	BVW-T	2 (1+N), 4 (3+N)	16 to 63A	—	240/415 AC	—	IEC 61008-1



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



BHW-T10

Residual Current Circuit Breakers (RCCB)

Automatically disconnect the circuit when earth fault/leakage current occurs and exceeds the rated sensitivity and also fulfills the function of isolation.

High short-circuit current withstand capacity with backup protection fuse.

Fire resistant plastic parts endures abnormal heating and strong impact.

Independent of power supply and line voltage, and free from external interference, voltage fluctuation.

Prevents nuisance tripping due to transient voltage with help of filtering device (Immunized).

Test button "T" is provided for periodic checkup.



BVW-T

Construction features

State of the art design

- Elegant appearance, cover and handle in arc shape make comfortable operation.

Mounting/Removal

- By means of a unique snap mechanism products can be mounted on DIN rail strip or removed even from a row of devices by lifting the clip without dismantling the whole row.

Dual position clip

- Dual position plastic clip helps in easy mounting and renewal of MCBs on DIN channel.

Bi-connect terminals

- Both sides of terminals are bi-connect type, giving ultimate flexibility.

High terminal capacity

- Deep serrated terminals able to accommodate 35 mm² cable.

Miniature Circuit Breakers (MCB)

Trip Free Mechanism

During fault MCB trips even if handle is held in ON position.

Low watt loss

Power loss values are much lesser than IEC specified values; making it one of the most energy efficient MCB.

Energy limiting class: 3

High current limiting performance under fault conditions achieved due to ultra fast contact opening and rapid quenching of arc.

Circuit Identification

Legend plates for circuit identifications and hence enhanced safety.

Ordering Information

Miniature Circuit Breakers (MCB)

REFERENCE ^①	CODES			
Type B	1 pole	2 poles	3 poles	4 poles
BHW-T10 □ Type B 6 A	291889	291908	291917	291926
BHW-T10 □ Type B 10 A	291890	291909	291918	291927
BHW-T10 □ Type B 16 A	291891	291910	291919	291928
BHW-T10 □ Type B 20 A	291892	291911	291920	291929
BHW-T10 □ Type B 25 A	291893	291912	291921	291930
BHW-T10 □ Type B 32 A	291894	291913	291922	291931
BHW-T10 □ Type B 40 A	291905	291914	291923	291932
BHW-T10 □ Type B 50 A	291906	291915	291924	291933
BHW-T10 □ Type B 63 A	291907	291916	291925	291934
Type C	1 pole	2 poles	3 poles	4 poles
BHW-T10 □ Type C 0,5 A	291953	291968	291983	291998
BHW-T10 □ Type C 1 A	291954	291969	291984	291999
BHW-T10 □ Type C 2 A	291955	291970	291985	292000
BHW-T10 □ Type C 3 A	291956	291971	291986	292001
BHW-T10 □ Type C 4 A	291957	291972	291987	292002
BHW-T10 □ Type C 5 A	291958	291973	291988	292003
BHW-T10 □ Type C 6 A	291959	291974	291989	292004
BHW-T10 □ Type C 10 A	291960	291975	291990	292005
BHW-T10 □ Type C 16 A	291961	291976	291991	292006
BHW-T10 □ Type C 20 A	291962	291977	291992	292007
BHW-T10 □ Type C 25 A	291963	291978	291993	292008
BHW-T10 □ Type C 32 A	291964	291979	291994	292009
BHW-T10 □ Type C 40 A	291965	291980	291995	292010
BHW-T10 □ Type C 50 A	291966	291981	291996	292011
BHW-T10 □ Type C 63 A	291967	291982	291997	292012
Type D	1 pole	2 poles	3 poles	4 poles
BHW-T10 □ Type D 0,5 A	292043	292058	292073	292088
BHW-T10 □ Type D 1 A	292044	292059	292074	292089
BHW-T10 □ Type D 2 A	292045	292060	292075	292090
BHW-T10 □ Type D 3 A	292046	292061	292076	292091
BHW-T10 □ Type D 4 A	292047	292062	292077	292092
BHW-T10 □ Type D 5 A	292048	292063	292078	292093
BHW-T10 □ Type D 6 A	292049	292064	292079	292094
BHW-T10 □ Type D 10 A	292050	292065	292080	292095
BHW-T10 □ Type D 16 A	292051	292066	292081	292096
BHW-T10 □ Type D 20 A	292052	292067	292082	292097
BHW-T10 □ Type D 25 A	292053	292068	292083	292098
BHW-T10 □ Type D 32 A	292054	292069	292084	292099
BHW-T10 □ Type D 40 A	292055	292070	292085	292100
BHW-T10 □ Type D 50 A	292056	292071	292086	292101
BHW-T10 □ Type D 63 A	292057	292072	292087	292102

^① □ The white square must indicate the number of poles → 1P or 2P or 3P or 4P

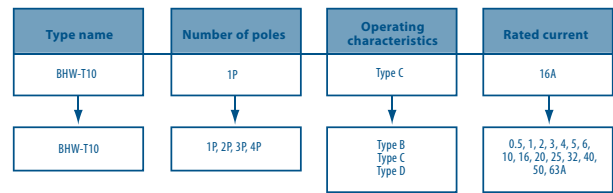
Residual Current Breakers (RCCB)

REFERENCE ^①	CODES	
30 mA	2 poles	4 poles
BVW-T □ 25A 30 mA	293548	293603
BVW-T □ 40A 30 mA	293550	293605
BVW-T □ 63A 30 mA	293551	293606
300 mA	2 poles	4 poles
BVW-T □ 25A 300 mA	293598	293613
BVW-T □ 40A 300 mA	293600	293615
BVW-T □ 63A 300 mA	293601	293616

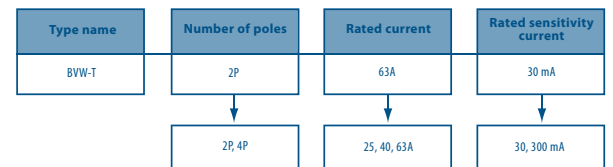
^① □ The white square must indicate the number of poles → 2P or 4P

Reference identification

Miniature Circuit Breakers (MCB)



Residual Current Breakers (RCCB)



Miniature Circuit Breakers/Residual Current Circuit Breakers

Specifications

MCB				BHW-T10							
Type											
No. of Poles [P]				1	2	3	4	1	2	3	4
Instantaneous tripping				Type B ^②				Type C, D ^②			
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, 62			
Rated short-circuit capacity [kA]	IEC/EN 60898-1 (Icn)	AC	240 V					10			
			240 V/415 V					10			
			415 V	—	10		—	10			
Energy limiting class ^③											
Number of operating cycles	Without current										
	With current										
Type of overcurrent release				Thermal-magnetic							
Mounting				IEC 35 mm rail							
Applicable wire size				1 to 25 mm ^②							
Mass [kg]				0.13	0.26	0.39	0.52	0.13	0.26	0.39	0.52
Accessories (optional) ^④	Auxiliary switch (AX)			●							
Terminal connection				Solderless							
Based on Standard				IEC/EN 60898-1							
CE marking				●							

^② Type C: ($5 I_n <, 10 I_n$), Type D: ($10 I_n <, 20 I_n$)

^③ Except for Type D

^④ Available soon

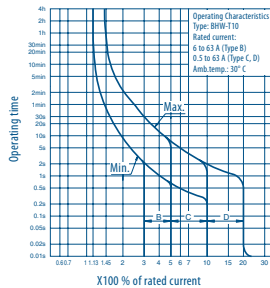
^⑤ In case of installing breakers side by side, reduce the passing current to under 80 % of the rated current.

RCCB		BVW-T	
Type			
No. of Poles [P]		2 (1+N) ^①	4 (3+N) ^①
Rated current I_n [A] at ambient temperature 30° C		25, 40, 63	
Rated voltage [VAC]		240	415
Rated current sensitivity $I_{\Delta n}$ [mA]		30, 300	
Max. operating time at $I_{\Delta n}$ [s]		0.04	
Pulsating current sensitivity		Type AC	
Rated making and breaking capacity I_m [A]		500 (In 25, 40 A), 630 (In 63 A)	
Rated conditional short-circuit current I_{sc} [kA]		5	
Rated residual making and breaking capacity I_{rsm} [A]		500 (In 25, 40 A), 630 (In 63 A)	
Rated conditional residual short-circuit current $I_{\Delta c}$ [kA]		6	
Number of operating cycles	Without current		4,000 ^②
	With current		2,000
Type of overcurrent release		—	
Mounting		IEC 35 mm rail	
Applicable wire size		1 to 25 mm ^②	
Mass [VAC]		0.22	0.44
Terminal connection		Solderless	
Based on standard		IEC/EN 61008-1	
CE marking		●	

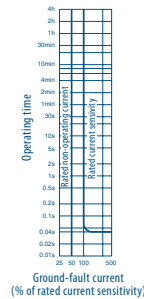
^① N pole is a switched neutral pole (without overcurrent release device).

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

Operating Characteristic



Earth-Leakage Tripping Characteristics



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