



FACTORY AUTOMATION

Miniature Circuit Breakers Residual Current Circuit Breakers Isolating Switches

DIN Series









Introducing the DIN Series...

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

DIN Series



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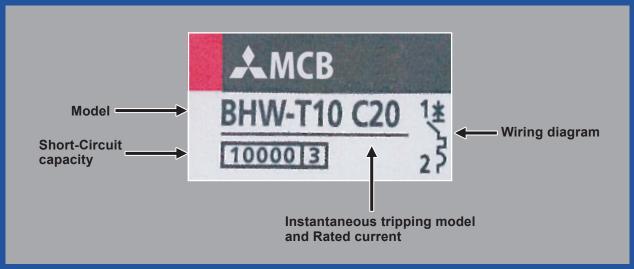
Features

- (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
		1, 1+N, 2, 3, 3+N, 4	6 to 63A	TYPE B	240/415AC	10	IEC 60898-1
MOD	DUNA TAO	1, 1+N, 2, 3, 3+N, 4	0.5 to 63A	TYPE C, D	240/415AC	10	IEC 60898-1
MCB	BHW-T10	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	KBW-T	1, 2, 3, 4	25 to 63A	-	240/415AC	-	IEC 60947-3
Switches	KDVV-1	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℃
Frequency	50/60Hz

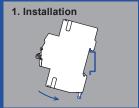


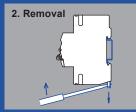
Points to Note

Installation

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

Fig-1





Connection

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

Fastening torque

Screw diameter	I torque I Model									
М3	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)								

? Opening, Closing and Tripping Operations

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

▲ Earth-leakage Test

Earth-leakage test steps:

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

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.

Selection

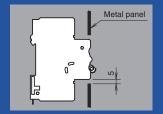
In case of installing MCB side by side, reduce the passing current to under 80% of the rated current. Set current rating with enough allowance while taking fluctuation of power voltage and load current into consideration.

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

•															
									MC	СВ					
	Mode	el		BHW-T10											
	Image														
No. of pole				1	1+N*1	2	3	3+N*1	4	1	1+N*1	2	3	3+N*1	4
Instantane	ous tripping	2				Тур	oe B					Туре	C, D		
Rated insu	lation voltag	e <i>U</i> i [V]				6	60					6	60		
Rated curre at ambient	ent In [A] temperature	∋ 30°C					6, 20, 25, , 50, 63					6, 10, 16	2, 3, 4, 5, 6, 20, 25, , 50, 63		
Rated	IEC/EN		240V			1	10					1	0		
circuit 6	60898-1		240/415V	10	10 – 10			10	_		1	10			
[kÅ]	(Icn)		415V		_		1	0			_		1	10	
Energy limi	iting class*3			Class 3											
Number of		Without	current						4,0	000					
operating of	•	With cur	rent	4,000											
Dimension: [mm]	s r	ca	а	18	3	6	54	7	2	18	3	6	54	7:	2
ļ,	<u>a</u>		b						92	2.6					
		٦ [С						4	4					
L			ca						Max.	73.5					
Type of ove	ercurrent rel	ease							Thermal-	magnetic					
Mounting									IEC 35	mm rail					
Applicable						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)*4 Auxiliary switch (AX)															
Shunt trip (SHT)															
Terminal connection				Solderless terminal											
Based on s	Based on standard				IEC/EN 60898-1										
CE marking	<u> </u>				0										
A NI I-		and a section								at a second City					

- *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.

No. of poles [P]							MCB				
No. of poles P 1		Mode	el		BHW-T10						
Instantaneous tripping" Type B, C		lmag	e				i.				
Rated Incompanies Incomp	No. of pole	s [P]			1	2	3	4			
Rated current I	Instantane	ous tripping	×1			Ту	pe B, C				
Hated current for lemp. 60888-1 30 C 80, 100, 125 Rated short- (ICC) 60947-2	Rated insu	lation voltag	ge <i>U</i> i [V]				690				
Rated short-circuit Capacity				30℃		90	100 125				
Rated short-circuit capacity (ac)		temp.		40°C		80, 100, 125					
capacity [kA] IEC/EN 60947-2 (Icu/Ics) AC 240/415V 10/7.5 Rated impulse withstand voltage Ump [kV] 6 Suitability for isolation Compatible Utilization category A A Pollution degree 3 A Number of operating cycles Without current 10,000 Dimensions (mm) a 27 54 81 108 Dimensions (mm) a 27 54 81 108 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)*2 Auxiliary switch (AL) O O O*4 Accessories (soptional)*2 Auxiliary switch (AX) O O*4 O*4 <td>short-</td> <td>60898-1</td> <td>AC</td> <td>240/415V</td> <td colspan="7">10</td>	short-	60898-1	AC	240/415V	10						
Suitability for isolation	capacity	60947-2	AC	240/415V		1	0/7.5				
Utilization category	Rated impu	ılse withstan	d voltage	U _{imp} [kV]			6				
Pollution degree 3	Suitability f	for isolation				Cor	npatible				
Number of operating cycles Without current 10,000											
operating cycles With current 4,000 Dimensions (mm) a 27 54 81 108 Image: part of continuous (mm) b 94 44 <t< td=""><td></td><td></td><td>1</td><td></td><td colspan="6">-</td></t<>			1		-						
Dimensions											
Solderless terminal Company Co			with cur								
Solderless terminal connection Solderless terminal Based on standard Section Solderless terminal Section				а	27	54	81	108			
Type of overcurrent release Thermal-magnetic	Ľ,	a	F-C-	b			94				
Type of overcurrent release Thermal-magnetic Mounting Applicable wire size [mm²] Mass [kg] Alarm switch (AL) Accessories (optional)*² Auxiliary switch (AX) Shunt trip (SHT) Terminal connection Based on standard Thermal-magnetic Thermal-			٦ ٢	С			44				
Mounting IEC 35mm rail		<u> </u>		ca			74.5				
Mounting IEC 35mm rail	Type of ove	ercurrent re	lease			Therm	al-magnetic				
Mass [kg] 0.21 0.42 0.63 0.84 Accessories (optional)*2 Alarm switch (AL) O*4 O*4 Accessories (optional)*2 Auxiliary switch (AX) O O*4 Shunt trip (SHT) O*4 O*4 O*4 Terminal connection Solderless terminal Based on standard IEC/EN 60898-1*5, IEC/EN 60947-2											
Alarm switch (AL) Accessories (optional)*2 Auxiliary switch (AX) Shunt trip (SHT) Terminal connection Based on standard Alarm switch (AL) Solderless terminal IEC/EN 60898-1*5, IEC/EN 60947-2	Applicable	wire size [m	nm²]			10) to 50				
Accessories (optional) *2	Mass [kg]				0.21	0.42		0.84			
Shunt trip (SHT) Terminal connection Solderless terminal Based on standard IEC/EN 60898-1-5, IEC/EN 60947-2			Alarm sw	itch (AL)			O*4				
Terminal connection Solderless terminal Based on standard IEC/EN 60898-1 *5, IEC/EN 60947-2											
Based on standard IEC/EN 60898-1*5, IEC/EN 60947-2											
CE marking					IEC/EN 60898-1 *5, IEC/EN 60947-2						
*1: Type B (3 $In <, \le 5 In$), Type C (5 $In <, \le 10 In$)							0				

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

 *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

•		r							
			RCCB						
Mode	el		BVW-T						
Imag	e								
No. of poles [P]			2 (1+N)*1	4(3+N)*1	2 (1+N)*1	4(3+N)*1			
Rated voltage [VAC]			240	415	240	415			
Rated current In [A] at ambient temperate	ıre 30°C		16, 25, 32	, 40, 63	80,	100			
Rated current sensiti	vity I∆n [n	nA]	30, 100	, 300	30, 100), 300			
Max. operating time	at 5 I _{Δn} [s	[]	0.04	4	0.0)4			
Pulsating current ser	sitivity		Туре	Type AC Type AC					
Residual operation			Independent of	line voltage	Independent of	of line voltage			
Rated making and break	ing capac	ity I _m [A]	500(In 16, 25, 32, 4	0A), 630(I _n 63A)	800(I _n 80A), 1	000(In 100A)			
Rated conditional short-ci	rcuit currer	nt I_{nc} [kA]	6		10)			
Rated residual making and b	reaking capa	acity I _{Am} [A]	500(In 16, 25, 32, 4	0A), 630(I _n 63A)	800(I _n 80A), 1	000(In 100A)			
Rated conditional residual sho	rt-circuit cur	rent IAC [kA]	6		10)			
Number of	Without	current	4,000)* ²	3,0	00			
operating cycles	With cu	rrent	2,00	0	2,000				
Dimensions [mm] a	ca	а	36	72	36	72			
[]		b	90		90)			
	[С	44		44	1			
الكا ا		ca	74		74	1			
Mounting			IEC 35m	ım rail	IEC 35r	nm rail			
Applicable wire size [mm²]			1 to 2	25	10 to	35			
Mass [kg]			0.22	0.44	0.22	0.44			
Accessories			Not ava		Not ava	ailable			
Terminal connection			Solderless	terminal	Solderless	terminal			
Based on standard			IEC/EN 6	1008-1	IEC/EN 6	61008-1			
CE marking			0		C				
A. Manda in a new date									

^{*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							
Mode	el		KBW-T							
Image	Image									
No. of poles [P]			1	2	3	4	2	3	4	
Utilization category				AC-	22A			AC-22A		
Rated current In [A] at ambient temperatu	re 30°C			25, 4	0, 63			80, 100, 125		
Rated voltage [VAC]			240		240/415			240/415		
Short time withstand	current I	cw [A]		12×lı	n, 1s			12×In, 1s		
Short-circuit making capacity I_{cm} [A]				12×ln 12×ln						
Rated impulse withstand	d voltage i	Uimp [kV]		6	3			6		
Pollution degree				2	2			2		
Dimensions [mm] a [ca	а	18	18 36 54 72			36	54	72	
		b		92	2.6		92.6			
	Ĺ	С		4	4		44			
		ca		Max.	73.5		Max. 73.5			
Number of	Without	current		10,0	000			10,000 8,000(125A)		
operating cycles	With cur	rrent		1,5	600			1,500 1,000(125A)		
Mounting				IEC 351	mm rail			IEC 35mm rail		
Applicable wire size [mm²]			1 to	25			10 to 50		
Mass [kg]		0.12	0.22	0.33	0.47	0.20	0.30	0.40		
Accessories	Accessories			Not av	ailable			Not available		
Terminal connection				Solderles	s terminal		Solderless terminal			
Based on standard				IEC/EN	60947-3			IEC/EN 60947-3		
CE marking				C)			0		

Miniature Circuit Breakers (MCB)

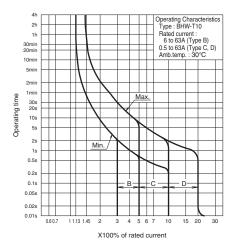
BHW-T10 (0.5 to 63A)



	Model								BHW	/-T10					
No. of po	oles [P]		1	1+N*1	2	3	3+N*1	4	1	1+N*1	2	3	3+N°1	4	
Instantar	neous trippir	ıg				Тур	е В			Type C,D					
Rated ins	sulation volt	age	<i>U</i> _i [V] 660 660												
	irrent In [A] nt temperati	ıre 3	0℃			6,10,16 32,40				0.5,1,2,3,4,5, 6,10,16,20,25, 32,40,50,63					
Rated short-					10							1	0		
circuit	circuit 60898-1	AC	240/415V	10	-		1	0		10	-		1	0	
capacity (Icn) [kA]		415V					1	0		- 10					

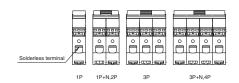
^{*1:} N pole is a switched neutral pole (without overcurrent release device).

■Operating Characteristics

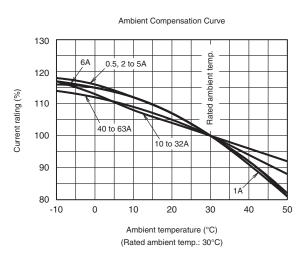


■Outer Dimensions =

M5 screw (1P+N only) Neutral pole (3P+N only) Neutral pole (3P+N only) M5 screw (1P+N only) Neutral pole (3P+N only) Neutral pole (3P+N only) Neutral pole (3P+N only) Neutral pole (3P+N only)



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

Specifications

Mo	odel	AX
Contact	Configuration	1A1B
Contact	Contact capacity	220VAC 6A
Conn	ection	Lead wire

Specifications

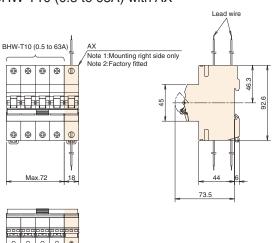
Model	SHT						
Cut-off switch	Equipped						
Voltage	12VDC	24VDC	48VDC	220VAC			
Input power requirement [VA]	40	110	300	250			
Operating time [ms]	<20						
Connection	Solderless terminal						

Combinations of Accessories

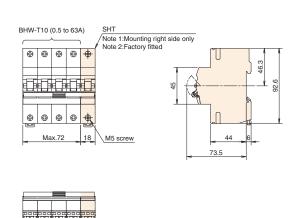
Accessory	AX	
Accessory connection combinations	SHT	

Outer Dimensions

BHW-T10 (0.5 to 63A) with AX



BHW-T10 (0.5 to 63A) with SHT



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.

Miniature Circuit Breakers (MCB)

BHW-T10 (80 to 125A)

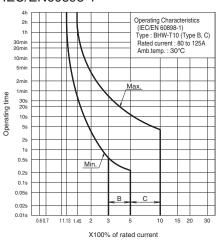


Model		BHW-T10						
No. of po	. of poles [P]			1 2 3 4				
Instantaneous tripping				Type B, C				
Rated in:	Rated insulation voltage U _i [V]		<i>U</i> _i [V]		69	90		
Rated Amb. IEC/EN 30°C			30℃	00 400 405				
I _n [A]	current In [A] IEC/EN 60947-2 40	40°C	80, 100, 125					
Rated short-circuit	IEC/EN 60898-1* (Icn)	AC	240/415V	10				
capacity IEC/EN 60947-2 AC 240/415V					10/	7.5		

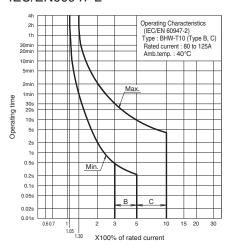
^{*} This standard will be conformed shortly. Please contact our branch office for release period and more details.

■Operating Characteristics

IEC/EN60898-1



IEC/EN60947-2



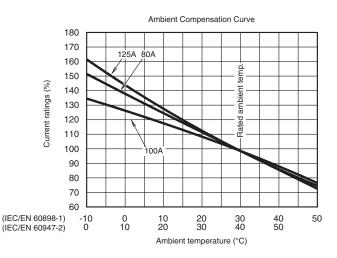
■Outer Dimensions

Solderless terminal





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

Specifications

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

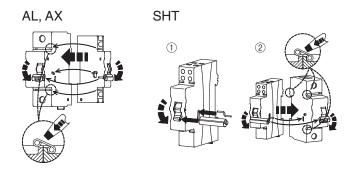
Accessory	SHT*1+2				
Model	SHTD024-1BHW SHTA240-1BHW				
Voltage	24VDC 240VAC				
Operating time [ms]	<20				
Connection	Solderless terminal				

- *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.

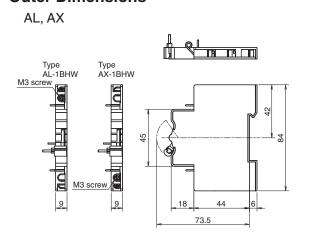
Combinations of Accessories

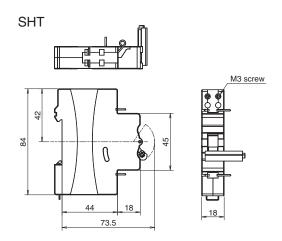
ΑL ΑX Accessory SHT connection combinations AL+SHT AX+SHT

Installation of Accessories



Outer Dimensions





Residual Current Circuit Breakers (RCCB)

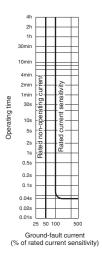
BVW-T



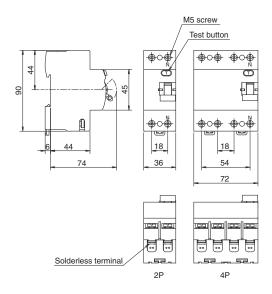
Model	BVW-T				
No. of poles [P]	2(1+N)*1	4(3+N)*1	2(1+N)*1	4(3+N)*1	
Rated voltage [VAC]	240	415	240	415	
Rated current I_n [A] at ambient temperature 30°C	16, 25, 32, 40, 63		80, 100		
Rated current sensitivity $I_{\Delta n}$ [mA]	30, 100, 300 30, 100, 3		0, 300		
Max. operating time at 5 $I_{\Delta n}$ [s]	0.04 0.04		04		
Pulsating current sensitivity	Type AC		Type AC		
sidual operation Indepen		Independent of line voltage		Independent of line voltage	
Rated making and breaking capacity I_m [A]	500(ln 16, 25, 32, 40A) 800(ln 80 630(ln 63A) 1000(ln 10				
Rated conditional short-circuit current Inc [kA]	(3	1	0	
Rated residual making and breaking capacity $I_{\Lambda m}$ [A]	500(ln 16, 25, 32, 40A) 630(ln 63A)		800(In 80A) 1000(In 100A)		
Rated conditional residual short-circuit current I_{Ac} [kA]	(3	1	0	

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

■Earth-Leakage Tripping Characteristics



■Outer Dimensions



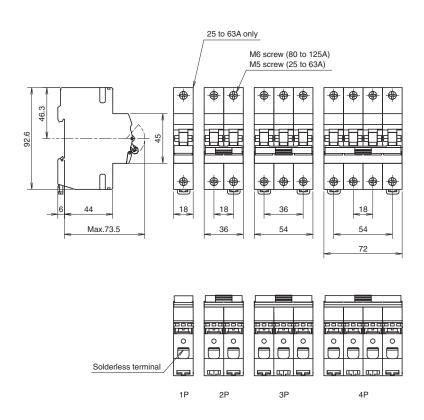
Isolating Switches

KBW-T

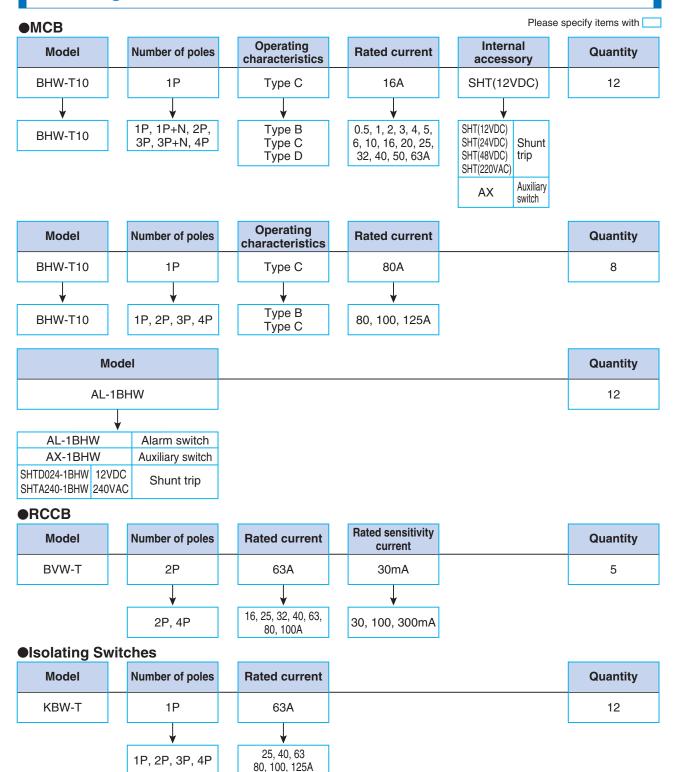


Model	квw-т						
No. of poles [P]	1	1 2 3 4 2 3 4				4	
Utilization category	AC-22A				AC-22A		
Rated insulation voltage U _i [V]	660 660						
Rated voltage Ue [VAC]	240 240/415 240/415						
Rated current In [A] at ambient temperature 30°C	25, 40, 63 80, 100,		80, 100, 125	;			
Short-time withstand current Icw [A]	12×In, 1s		12×In, 1s				
Short-circuit making capacity Icm [A]	12×ln		12×In				

■Outer Dimensions =



Ordering Information



Information from Fukuyama Works

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



Four Key Features

- Product Information
- 2 Downloads
- News
- Support

MEMO

MINIATURE CIRCUIT BREAKERS, RESIDUAL CURRENT CIRCUIT BREAKERS & ISOLATING SWITCHES

Sales Network

PROPOSESSIVE TRADRISC ORPORATIONS Programmer Progr	Country / Region	Corporation Name	Address	Telephone
Belans February	Australia	Mitsubishi Electric Australia Pty. Ltd.	348 Victoria Road, Rydalmere, N.S.W. 2116, Australia	+61-2-9684-7777
Patients Common	Bangladesh			
Besjum				
Carendoda				
Chie				
Missabishi Electric Automation (Crima) Ltd. Electric Missabishi Electric Automation (Electric Automation (Electric Missabishi Electric Europe B.V. Elegric Crima Electric Europe B.V. Elegric Missabishi Electric Europe B.V. Elegri				
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Singapore Mitsubishi Electric Asia Pte. Ltd. 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 +65-6473-2308 Slovakia PROCONT, Presov Kupelna 1/, SK - 08001 Presov, Slovakia +421(0)51-7580 611 SIMAP Jana Derku 1671, SK - 91101 Trencin, Slovakia +421(0)51-7580 611 Slovenia Inea RBT d.o.o. Stegne 11, SI-1000 Ljubljana, Slovenia +386(0)1-513-8116 South Africa CBI-electric: low voltage Private Bag 2016, ZA-1600 Isando Gauteng, South Africa +27-(0)11-9282000 Spain Mitsubishi Electric Europe B.V. Spanish Branch Carretera de Rubi 76-80, E-08190 Sant Cugat del Vallés (Barcelona), Spain +34(0)93-565-3131 Sweden Euro Energy Components AB Järnvägsgatan 36, S-434 24 Kungsbacka, Sweden +46(0)300-690040 Switzerland Ticilec AG Muehlentalstrasse 136, CH-8201 Schaffhausen +41-(0)52-6258425 Taiwan Setsuyo Enterprise Co., Ltd 5th Fl., No.105, Wu Kung 3rd, Wu-Ku Hsiang, Taipei, Taiwan, R.O.C. +886-(0)2-2298-8889 Thailand United Trading & Import Co., Ltd. 77/12 Bamrungmuang Road, Klong Mahanak Pomprab Bangkok Thailand +66-223-4220-3 Tunisia MOTRA Electric 3, Résidence Imen, Avenue des Martyrs Mourouj III, 2074 - El Mourouj III Ben Arous, Tunisia +216-71 474 599 Bayraktar Bulvarn Nutuk Sok. No.5, Posta Kutusu34384, Tr.3-4775 Yukan Dudullu-Uemraniye, Istanbul, Turkey +90(0)216 526 3990 United Kingdom Mitsubishi Electric Europe B.V. Travellers Lane, UK-Hatfield, Herts. AL10 8XB, United Kingdom +44(0)1707-276100 Uruguay Fierro Vignoli S.A. Avda. Uruguay 1274 Montevideo Uruguay +598-2-902-0808 Venezuela Adesco S.A. (Calle 7 La Urbina Edificio Los Robles Locales C y D Planta Baja, Caracas - Venezuela +58-2-902-0808 Mitsubishi Electric Vietnam Co., Ltd. Head Office				
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SIMAP Jana Derku 1671, SK - 91101 Trencin, Slovakia + 421(0)32 743 04 72 Slovenia Inea RBT d.o.o. Stegne 11, Sl-1000 Ljubijana, Slovenia +386(0)1-513-8116 South Africa CBI-electric: low voltage Private Bag 2016, ZA-1600 Isando Gauteng, South Africa +27-(0)11-9282000 Spain Mitsubishi Electric Europe B.V. Spanish Branch Carretera de Rubi 76-80, E-08190 Sant Cugat del Vallés (Barcelona), Spain +34(0)93-556-3131 Sweden Euro Energy Components AB Järnvägsgatan 36, S-434 24 Kungsbacka, Sweden +46(0)3000-690040 Switzerland TriElec AG Muehlentalstrasses 136, CH-8201 Schaffhausen +41-(0)52-6258425 Taiwan Setsuyo Enterprise Co., Ltd 5th Fi., No.105, Wu Kung 3rd, Wu-Ku Hsiang, Taipei, Taiwan, R.O.C. +886-(0)2-2298-8889 Thailand United Trading & Import Co., Ltd. 77/12 Bamrungmuang Road, Klong Mahanak Pomprab Bangkok Thailand +66-223-4220-3 Turisia MOTRA Electric 3, Résidence Imen, Avenue des Martyrs Mourouj III, 2074 - El Mourouj III Ben Arous, Tunisia +216-71 474 599 Turkey GTS Bayraktar Bulvarri Nutuk Sok. No:5, Posta Kutusu34384, Tra-34775 Yukan Dudullu-Uemraniye, Istanbul, Turkey +90(0)216 526 3990 United Kingdom Mitsubishi Electric Europe B.V. Travellers Lane, UK-Hatfield, Herts. AL10 8XB, United Kingdom +44(0)1707-276100 Uruguay Fierro Vignoli S.A. Avda. Uruguay 1274 Montevideo Uruguay +598-2-902-0808 Wenezuela Adesco S.A. Calle 7t Ldt. Head Office Unitiol-04, 10th Floor, Vincom Center, 72 Le Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam +84-8-3910-5845				
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Taiwan Setsuyo Enterprise Co., Ltd 5th Fl., No.105, Wu Kung 3rd, Wu-Ku Hsiang, Taipei, Taiwan, R.O.C. +886-(0)2-2298-8889 Thailand United Trading & Import Co., Ltd. 77/12 Bamrungmuang Road, Klong Mahanak Pomprab Bangkok Thailand +66-223-4220-3 Tunisia MOTRA Electric 3, Résidence Imen, Avenue des Martyrs Mourouj III, 2074 - El Mourouj III Ben Arous, Tunisia +216-71 474 599 Turkey GTS Baryatar Bulvarı Nutuk Sok. No:5, Posta Kutusus/4384, +90(0)216 526 3990 United Kingdom Mitsubishi Electric Europe B.V. Travellers Lane, UK-Hatfield, Herts. AL10 8XB, United Kingdom +44(0)1707-276100 Uruguay Fierro Vignoli S.A. Avda. Uruguay Venezuela Adesco S.A. Calle 7 La Urbina Edificio Los Robles Locales C y D Planta Baja, Caracas - Venezuela +88-219-241-9952 Mitsubishi Electric Vietnam Co., Ltd. Head Office Unit01-04, 10th Floor, Vincom Center, 72 Le Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam +84-8-3910-5945				
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Tunisia MOTRA Electric 3, Résidence Imen, Avenue des Martyrs Mourouj III, 2074 - El Mourouj III Ben Arous, Tunisia +216-71 474 599 Turkey GTS Bayraktar Bulvarı Nutuk Sok. No.5, Posta Kutusu34384, +90(0)216 526 3990 United Kingdom Mitsubishi Electric Europe B.V. Travellers Lane, UK-Hatfield, Herts. AL10 8XB, United Kingdom +44(0)1707-276100 Uruguay Fierro Vignoli S.A. Avda. Uruguay 1274 Montevideo Uruguay Venezuela Adesco S.A. Calle 7 La Urbina Edificio Los Robles Locales C y D Planta Baja, Caracas - Venezuela +58-2-92-241-9952 Mitsubishi Electric Vietnam Co., Ltd. Head Office Uniti01-04, 10th Floor, Vincom Center, 72 Le Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam +84-8-3910-5945				
Turkey GTS Bayraktar Bulvarı Nutuk Sok. No:5, Posta Kutusu34384, TR-34775 Yukan Dudullu-Uemraniye, Istanbul, Turkey United Kingdom Mitsubishi Electric Europe B.V. Travellers Lane, UK-Hatfield, Herts. AL10 8XB, United Kingdom Uruguay Fierro Vignoli S.A. Avda. Uruguay 1274 Montevideo Uruguay Venezuela Adesco S.A. Calle 7 La Urbina Edificio Los Robles Locales C y D Planta Baja, Caracas - Venezuela Mitsubishi Electric Vietnam Co., Ltd. Head Office Unit01-04, 10th Floor, Vincom Center, 72 Le Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam +84-8-3910-5945				
United Kingdom Mitsubishi Electric Europe B.V. Travellers Lane, UK-Hatfield, Herts. AL10 BXB, United Kingdom +44(0)1707-276100 Uruguay Fierro Vignoli S.A. Avda. Uruguay 1274 Montevideo Uruguay +598-2-902-0808 Venezuela Adesco S.A. Calle 7 La Urbina Edificio Los Robles Locales C y D Planta Baja, Caracas - Venezuela +58-212-241-9952 Mitsubishi Electric Vietnam Co., Ltd. Head Office Unit01-04, 10th Floor, Vincom Center, 72 Le Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam +84-8-3910-5945	Tunisia	MOTRA Electric		+216-71 474 599
United Kingdom Mitsubishi Electric Europe B.V. Travellers Lane, UK-Hatfield, Herts. ÁL10 8XB, United Kingdom +44(0)1707-276100 Uruguay Fierro Vignoli S.A. Avda. Uruguay 1274 Montevideo Uruguay +598-2-902-0808 Venezuela Adesco S.A. Calle 7 La Urbina Edificio Los Robles Locales C y D Planta Baja, Caracas - Venezuela +58-212-241-9952 Mitsubishi Electric Vietnam Co., Ltd. Head Office Uniti01-04, 10th Floor, Vincom Center, 72 Le Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam +84-8-3910-5945	Turkey	GTS		+90(0)216 526 3990
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Venezuela Adesco S.A. Calle 7 La Urbina Edificio Los Robles Locales C y D Planta Baja, Caracas - Venezuela +58-212-241-9952 Wiston Mitsubishi Electric Vietnam Co., Ltd. Head Office Unit01-04, 10th Floor, Vincom Center, 72 Le Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam +84-8-3910-5945				
Wistonem Mitsubishi Electric Vietnam Co., Ltd. Head Office Unit01-04, 10th Floor, Vincom Center, 72 Le Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam +84-8-3910-5945				
	Vietnam	Mitsubishi Electric Vietnam Co., Ltd. Hanoi Branch		+84-4-3937-8075

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.



HEAD OFFICE: TOKYO BUILDING, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN