
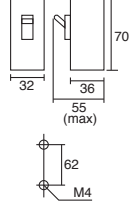

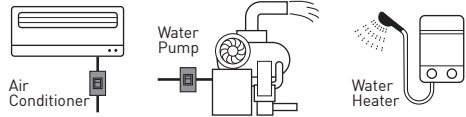


Complete range of products
with a compact design.



SAFETY BREAKER EARTH LEAKAGE BREAKER

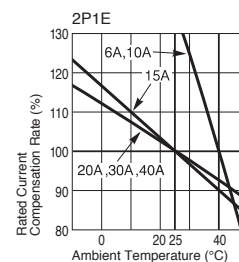
Safety Breaker HB Type

Dimension (mm) Appearance Mounting Pitch (unit:mm)	 		Unit : mm
Number of Poles & Elements	2P1E		
Type	6A	BS11106TV	
	10A	BS1110TV	
	15A	BS1111TV	
	20A	BS1112TV	
	30A	BS1113TV	
	40A	BS1114TV	
Rated Voltage (AC)	AC 240V 1.0kA (6A) AC 240V 1.5kA (10·15·20·30·40A)		
Terminal Specifications	Solderless Terminals (with strap) 5.5 mm ² ~ 8 mm ² Ø1.6 ~ Ø2.6  (When using electrical appliance wire or other stranded wire (1.25 - 3.5 mm ²) use bar lug terminals.)		
Weight	0.07 kg		
Structure	Tipping Mechanism	Terminal Method Operation	
	Arc Quenching Method	Natural Quenching	
Capacity	Interrupting Time	10 ms (100%)	
	Passage of Short	23 X 10 ³ A ² sec (100%)	
Application Examples	Wire Protection (Over Current & Short Circuit Protection) 		

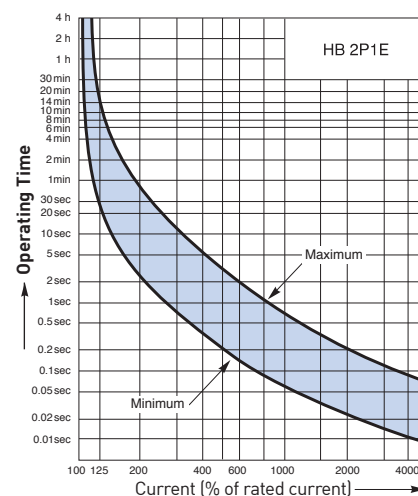
Note : 1. Use 20A for normal branch circuits, and 30A for high capacity dedicated circuits.
 2. Use 15A or less for machine protection, after consideration of its characteristic inrush current and usual current.
 3. The data in capacity mentioned above are just for your reference, which are Panasonic's experimental ones.

HB Type

Temperature Compensation Curves



Operating Characteristics Curves (with O.C.)



M C B / M C C B

I S O L A T O R

R C C B

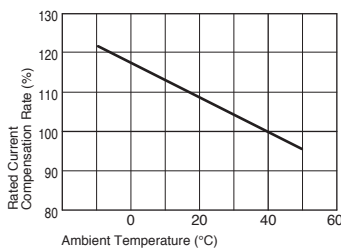
SAFETY BREAKER
EARTH LEAKAGE BREAKER

Earth Leakage Breaker Small Type

Dimension (mm) Appearance Mounting Pitch (unit:mm)											
	Unit : mm										
Type	BJS30208A2	BJS30308A2	BJS1512S	BJS1522S	BJS1532S	BJS2012S	BJS2022S	BJS2032S	BJS3012S	BJS3022S	BJS3032S
Rated Current (A)	30A		15A			20A			30A		
Number of Poles & Elements	2P0E		2P2E								
Rated Voltage (AC)	AC 120 - 240V		AC 100 - 240V								
Residual Operating Current (mA)	15 mA	30 mA	10 mA	15 mA	30 mA	10 mA	15 mA	30 mA	10 mA	15 mA	30 mA
Residual Non-Operating Current (mA)	7.5 mA	15 mA	6 mA	7.5 mA	15 mA	6 mA	7.5 mA	15 mA	6 mA	7.5 mA	15 mA
Rated Short-Time Current	1.5 kA										
Phase and Wiring Configuration	1Ø2W		1Ø2W, 1Ø3W								
Operating Time	Within 0.1 sec										
Handle Type	standard		—								
Standard Terminal Specifications	Solderless Terminals (with strap) Ø1.6 - Ø2.6 5.5 - 8 mm ²		Note : When using electrical appliance wire or other stranded wire (1.25 - 3.5 mm ²), use bar lug terminals. WV2500 1.25 - 2.0 mm ² (WV2501 2.0 - 3.5 mm ²)					Tightening Torque : 1.6 - 2.0 N·m 16.3 - 20.4 kgf·cm			
Connecting Method	For direct installation of electrical wiring										
Weight	0.1 kg		0.09 kg								
Overload Current Tripping Mechanism	None		Thermal Operation								
Application Examples	Water Heater		Refrigerator, Fleezer								
Note : 1. "Rated short-time current" means that although short-circuit protection is not possible, the internal circuitry and conductors can withstand 1.5kA for 0.02 seconds. 2. Ambient Temperature Range For Usage : -10°C - +50°C 3. Disconnect electrical wiring before measuring insulation resistance between wires.			Note : 1. Ambient Temperature Range for Usage : -10°C - +50°C 2. Disconnect electrical wiring before measuring insulation resistance between wires.								

Small Type

Temperature Compensation Curves



Operating Characteristics Curves (with O.C.)

