

1. Product Name
Circuit Breaker
2. Type
BD-63AA (MCB 10kA)
3. Rating

Item Code Number	Rated Current	Type Instantaneous	Number of Poles and Elements	Rated Voltage & Breaking capacity	Frequency
BBD1061BHTB	6A	B	1P1E	AC 240V 10000A	50/60 Hz
BBD1081BHTB	8A				
BBD1101BHTB	10A				
BBD1131BHTB	13A				
BBD1161BHTB	16A				
BBD1201BHTB	20A				
BBD1251BHTB	25A				
BBD1321BHTB	32A				
BBD1401BHTB	40A				
BBD1501BHTB	50A				
BBD1631BHTB	63A				
BBD1061CHTB	6A				
BBD1081CHTB	8A				
BBD1101CHTB	10A				
BBD1131CHTB	13A				
BBD1161CHTB	16A				
BBD1201CHTB	20A				
BBD1251CHTB	25A				
BBD1321CHTB	32A				
BBD1401CHTB	40A				
BBD1501CHTB	50A				
BBD1631CHTB	63A				
BBD1061DHTB	6A	D			
BBD1081DHTB	8A				
BBD1101DHTB	10A				
BBD1131DHTB	13A				
BBD1161DHTB	16A				
BBD1201DHTB	20A				
BBD1251DHTB	25A				
BBD1321DHTB	32A				
BBD1401DHTB	40A				
BBD1501DHTB	50A				
BBD1631DHTB	63A				

Catalog No.

BBD1061BHTB

Name

BD-63AA (MCB 10kA)

Date

2021.06.01

Panasonic Eco Solutions Electrical

Drawn by

Evaluated by

Construction Materials Taiwan Co., Ltd.

Checked by

Approved by

Item Code Number	Rated Current	Type Instantaneous	Number of Poles and Elements	Rated Voltage & Breaking capacity	Frequency
BBD2062BHTB	6A	B	2P2E	AC 415V 10000A	50/60 Hz
BBD2082BHTB	8A				
BBD2102BHTB	10A				
BBD2132BHTB	13A				
BBD2162BHTB	16A				
BBD2202BHTB	20A				
BBD2252BHTB	25A				
BBD2322BHTB	32A				
BBD2402BHTB	40A				
BBD2502BHTB	50A				
BBD2632BHTB	63A				
BBD2062CHTB	6A	C			
BBD2082CHTB	8A				
BBD2102CHTB	10A				
BBD2132CHTB	13A				
BBD2162CHTB	16A				
BBD2202CHTB	20A				
BBD2252CHTB	25A				
BBD2322CHTB	32A				
BBD2402CHTB	40A				
BBD2502CHTB	50A				
BBD2632CHTB	63A				
BBD2062DHTB	6A	D			
BBD2082DHTB	8A				
BBD2102DHTB	10A				
BBD2132DHTB	13A				
BBD2162DHTB	16A				
BBD2202DHTB	20A				
BBD2252DHTB	25A				
BBD2322DHTB	32A				
BBD2402DHTB	40A				
BBD2502DHTB	50A				
BBD2632DHTB	63A				

Item Code Number	Rated Current	Type Instantaneous	Number of Poles and Elements	Rated Voltage & Breaking capacity	Frequency
BBD3063BHTB	6A	B	3P3E	AC 415V 10000A	50/60 Hz
BBD3083BHTB	8A				
BBD3103BHTB	10A				
BBD3133BHTB	13A				
BBD3163BHTB	16A				
BBD3203BHTB	20A				
BBD3253BHTB	25A				
BBD3323BHTB	32A				
BBD3403BHTB	40A				
BBD3503BHTB	50A				
BBD3633BHTB	63A				
BBD3063CHTB	6A	C			
BBD3083CHTB	8A				
BBD3103CHTB	10A				
BBD3133CHTB	13A				
BBD3163CHTB	16A				
BBD3203CHTB	20A				
BBD3253CHTB	25A				
BBD3323CHTB	32A				
BBD3403CHTB	40A				
BBD3503CHTB	50A				
BBD3633CHTB	63A				
BBD3063DHTB	6A	D			
BBD3083DHTB	8A				
BBD3103DHTB	10A				
BBD3133DHTB	13A				
BBD3163DHTB	16A				
BBD3203DHTB	20A				
BBD3253DHTB	25A				
BBD3323DHTB	32A				
BBD3403DHTB	40A				
BBD3503DHTB	50A				
BBD3633DHTB	63A				

Item Code Number	Rated Current	Type Instantaneous	Number of Poles and Elements	Rated Voltage & Breaking capacity	Frequency
BBD4064BHTB	6A	B	4P4E	AC 415V 10000A	50/60 Hz
BBD4084BHTB	8A				
BBD4104BHTB	10A				
BBD4134BHTB	13A				
BBD4164BHTB	16A				
BBD4204BHTB	20A				
BBD4254BHTB	25A				
BBD4324BHTB	32A				
BBD4404BHTB	40A				
BBD4504BHTB	50A				
BBD4634BHTB	63A				
BBD4064CHTB	6A	C			
BBD4084CHTB	8A				
BBD4104CHTB	10A				
BBD4134CHTB	13A				
BBD4164CHTB	16A				
BBD4204CHTB	20A				
BBD4254CHTB	25A				
BBD4324CHTB	32A				
BBD4404CHTB	40A				
BBD4504CHTB	50A				
BBD4634CHTB	63A				
BBD4064DHTB	6A	D			
BBD4084DHTB	8A				
BBD4104DHTB	10A				
BBD4134DHTB	13A				
BBD4164DHTB	16A				
BBD4204DHTB	20A				
BBD4254DHTB	25A				
BBD4324DHTB	32A				
BBD4404DHTB	40A				
BBD4504DHTB	50A				
BBD4634DHTB	63A				

Tripping Mechanism	Thermal & Magnetic Type
Normal Ambient Temperature	30°C

4. Applicable Standard
IEC60898

5. Material

Body	Polyamide Resin
Cover	Polyamide Resin
Handle	Polyamide Resin

6. Dimensions
Refer to Annexed page

7. Operating Characteristic
Refer to Annexed page

8. Performance

8.1 Time-current operating characteristics

Test	Type	Test current	Initial condition	Time limits of tripping or non-tripping	Result to be obtained
a	B,C,D	1.13I _n	Cold	$t \geq 1 \text{ h}$	No tripping
b	B,C,D	1.45I _n	Immediately following test a	$t < 1 \text{ h}$	Tripping
c	B,C,D	2.55I _n	Cold	$1 < t < 60 \text{ s}$ (I _n ≤ 32A) $1 < t < 120 \text{ s}$ (I _n > 32A)	Tripping
d	B C D	3I _n 5I _n 10I _n	Cold	$t \leq 0.1 \text{ s}$	No tripping
e	B C D	5I _n 10I _n 50I _n	Cold	$t < 0.1 \text{ s}$	Tripping

I_n: Rated Current

8.2 Temperature Rise

Parts	Temperature Rise Limit
Terminals for external connections	60°C
External parts liable to retouched during manual operation of the circuit-breaker, including operating means of insulating material and metallic means coupling insulated operating means of several poles	40°C
Other external parts, including that face of the circuit-breaker in direct contact with the mounting surface	60°C

8.3 Mechanical & Electrical Endurance

	Test Voltage	Test current	Number of Operating cycles
Rated Load	SP, SPN: AC240V	In	With In 4,000
	OTHER: AC415V		Without In 20,000

In: Rated Current

8.4 Dielectric Strength
2000V 1min8.5 Short Circuit Breaking Performance
Refer to item 3.Rating8.6 Safe & energy efficient
Minimum let through energy in case of fault;
ensures safety and longevity of downstream circuit/installation.

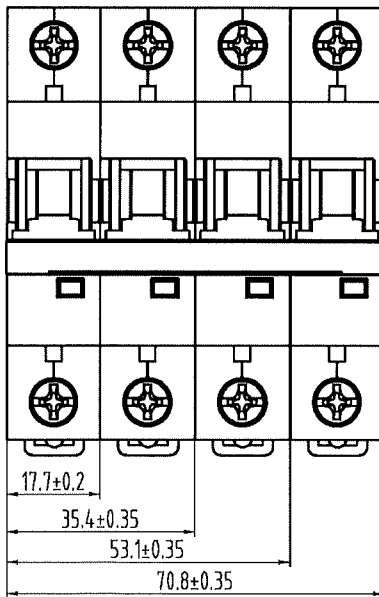
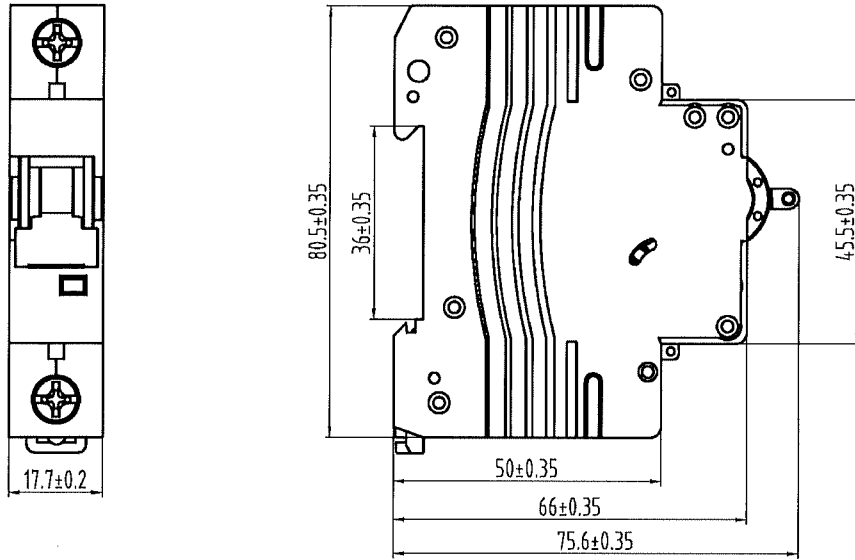
Rated shortcircuit capacity	Rated Current	class 3	
		type B	Type C
10000A	50A, 63A	135000	145000
	40A	108000	120000
	20A, 25A, 32A	90000	100000
	6A, 10A, 16A	70000	80000

9. Normal Conditions for Operation in Service

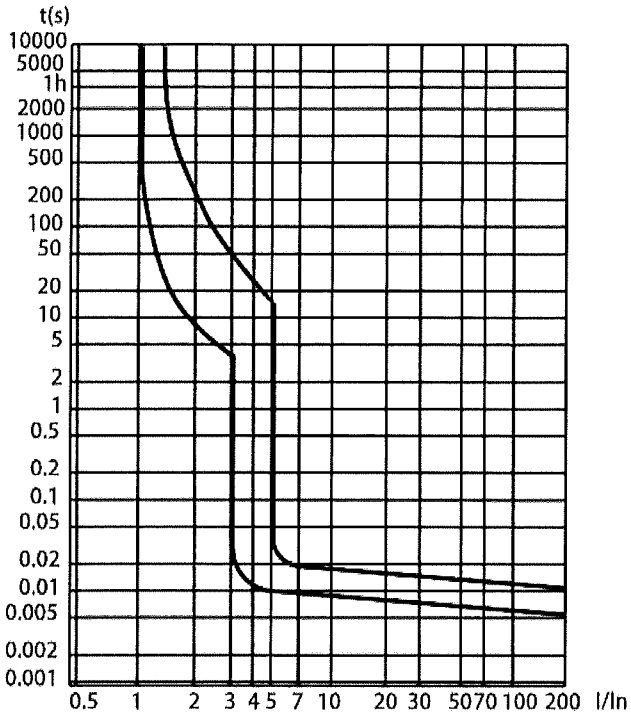
Ambient Temperature -5°C ~ +40°C

Relative Humidity not exceeding 50% at 40°C (90% at 20°C)

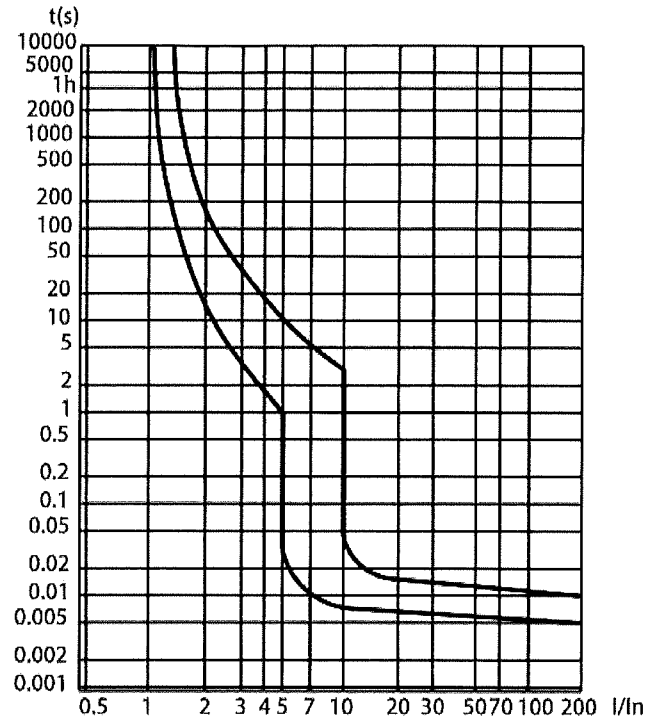
Altitude not exceeding 2000m



B Type



C Type



D Type

