1. Product Name
   Circuit Breaker

2. Type
   BD-63AA (MCB 6kA)

3. Rating

Item Code Number	Rated Current	Type Instantaneous	Number of Poles and Elements	Rated Voltage & Breaking capacity	Frequency
BBD1061BNTB	6A	B	1P1E	AC 240V 6000A	50/60 Hz
BBD1081BNTB	8A				
BBD1101BNTB	10A				
BBD1131BNTB	13A				
BBD1161BNTB	16A				
BBD1201BNTB	20A				
BBD1251BNTB	25A				
BBD1321BNTB	32A				
BBD1401BNTB	40A				
BBD1501BNTB	50A				
BBD1631BNTB	63A				
BBD1061CNTB	6A	C			
BBD1081CNTB	8A				
BBD1101CNTB	10A				
BBD1131CNTB	13A				
BBD1161CNTB	16A				
BBD1201CNTB	20A				
BBD1251CNTB	25A				
BBD1321CNTB	32A				
BBD1401CNTB	40A				
BBD1501CNTB	50A				
BBD1631CNTB	63A				
BBD1061DNTB	6A	D			
BBD1081DNTB	8A				
BBD1101DNTB	10A				
BBD1131DNTB	13A				
BBD1161DNTB	16A				
BBD1201DNTB	20A				
BBD1251DNTB	25A				
BBD1321DNTB	32A				
BBD1401DNTB	40A				
BBD1501DNTB	50A				
BBD1631DNTB	63A				

Item Code Number	Rated Current	Type Instantaneous	Number of Poles and Elements	Rated Voltage & Breaking capacity	Frequency
BBD2062BNTB	6A	B	2P2E	AC 415V 6000A	50/60 Hz
BBD2082BNTB	8A				
BBD2102BNTB	10A				
BBD2132BNTB	13A				
BBD2162BNTB	16A				
BBD2202BNTB	20A				
BBD2252BNTB	25A				
BBD2322BNTB	32A				
BBD2402BNTB	40A				
BBD2502BNTB	50A				
BBD2632BNTB	63A				
BBD2062CNTB	6A	C			
BBD2082CNTB	8A				
BBD2102CNTB	10A				
BBD2132CNTB	13A				
BBD2162CNTB	16A				
BBD2202CNTB	20A				
BBD2252CNTB	25A				
BBD2322CNTB	32A				
BBD2402CNTB	40A				
BBD2502CNTB	50A				
BBD2632CNTB	63A				
BBD2062DNTB	6A	D			
BBD2082DNTB	8A				
BBD2102DNTB	10A				
BBD2132DNTB	13A				
BBD2162DNTB	16A				
BBD2202DNTB	20A				
BBD2252DNTB	25A				
BBD2322DNTB	32A				
BBD2402DNTB	40A				
BBD2502DNTB	50A				
BBD2632DNTB	63A				

Item Code Number	Rated Current	Type Instantaneous	Number of Poles and Elements	Rated Voltage & Breaking capacity	Frequency
BBD3063BNTB	6A	B	3P3E	AC 415V 6000A	50/60 Hz
BBD3083BNTB	8A				
BBD3103BNTB	10A				
BBD3133BNTB	13A				
BBD3163BNTB	16A				
BBD3203BNTB	20A				
BBD3253BNTB	25A				
BBD3323BNTB	32A				
BBD3403BNTB	40A				
BBD3503BNTB	50A				
BBD3633BNTB	63A				
BBD3063CNTB	6A	C			
BBD3083CNTB	8A				
BBD3103CNTB	10A				
BBD3133CNTB	13A				
BBD3163CNTB	16A				
BBD3203CNTB	20A				
BBD3253CNTB	25A				
BBD3323CNTB	32A				
BBD3403CNTB	40A				
BBD3503CNTB	50A				
BBD3633CNTB	63A				
BBD3063DNTB	6A	D			
BBD3083DNTB	8A				
BBD3103DNTB	10A				
BBD3133DNTB	13A				
BBD3163DNTB	16A				
BBD3203DNTB	20A				
BBD3253DNTB	25A				
BBD3323DNTB	32A				
BBD3403DNTB	40A				
BBD3503DNTB	50A				
BBD3633DNTB	63A				

Item Code Number	Rated Current	Type Instantaneous	Number of Poles and Elements	Rated Voltage & Breaking capacity	Frequency
BBD4064BNTB	6A	B	4P4E	AC 415V 6000A	50/60 Hz
BBD4084BNTB	8A				
BBD4104BNTB	10A				
BBD4134BNTB	13A				
BBD4164BNTB	16A				
BBD4204BNTB	20A				
BBD4254BNTB	25A				
BBD4324BNTB	32A				
BBD4404BNTB	40A				
BBD4504BNTB	50A				
BBD4634BNTB	63A				
BBD4064CNTB	6A	C			
BBD4084CNTB	8A				
BBD4104CNTB	10A				
BBD4134CNTB	13A				
BBD4164CNTB	16A				
BBD4204CNTB	20A				
BBD4254CNTB	25A				
BBD4324CNTB	32A				
BBD4404CNTB	40A				
BBD4504CNTB	50A				
BBD4634CNTB	63A				
BBD4064DNTB	6A	D			
BBD4084DNTB	8A				
BBD4104DNTB	10A				
BBD4134DNTB	13A				
BBD4164DNTB	16A				
BBD4204DNTB	20A				
BBD4254DNTB	25A				
BBD4324DNTB	32A				
BBD4404DNTB	40A				
BBD4504DNTB	50A				
BBD4634DNTB	63A				

Tripping Mechanism	Thermal & Magnetic Type
Normal Ambient Temperature	30℃

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	1.13In	Cold	t ≧ 1 h	No tripping
b	B,C,D	1.45In	Immediately following test a	t ＜1 h	Tripping
c	B,C,D	2.55In	Cold	1＜t＜60 s（In ≦ 32A） 1＜t＜120 s（In ＞32A）	Tripping
d	B C D	3In 5In 10In	Cold	t ≦ 0.1 s	No tripping
e	B C D	5In 10In 50In	Cold	t＜0.1 s	Tripping

In: Rated Current

8.2 Temperature Rise

Parts	Temperature Rise Limit
Terminals for external connections	60℃
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℃
Other external parts, including that face of the circuit-breaker in direct contact with the mounting surface	60℃

8.3 Mechanical & Electrical Endurance

	Test Voltage	Test current	Number of Operating cycles
Rated Load	1P: AC240V OTHER: AC415V	In	With In 4,000 Without In 20,000

In: Rated Current

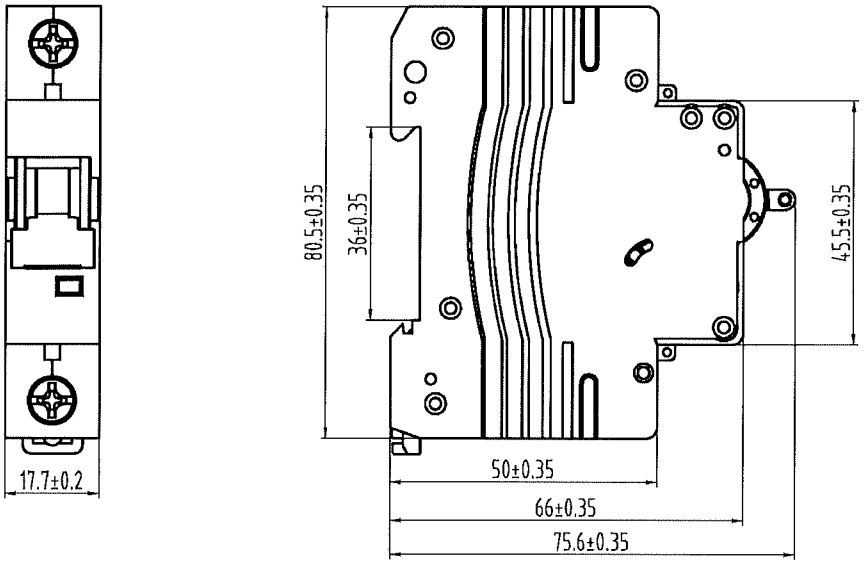
8.4 Dielectric Strength
2000V 1min

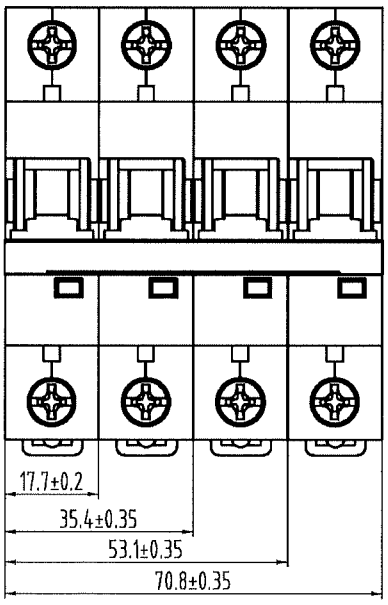
8.5 Short Circuit Breaking Performance
Refer to item 3.Rating

8.6 Safe & energy efficient
Minimum let through energy in case of fault;
ensures safety and longevity of downstream circuit/installation.

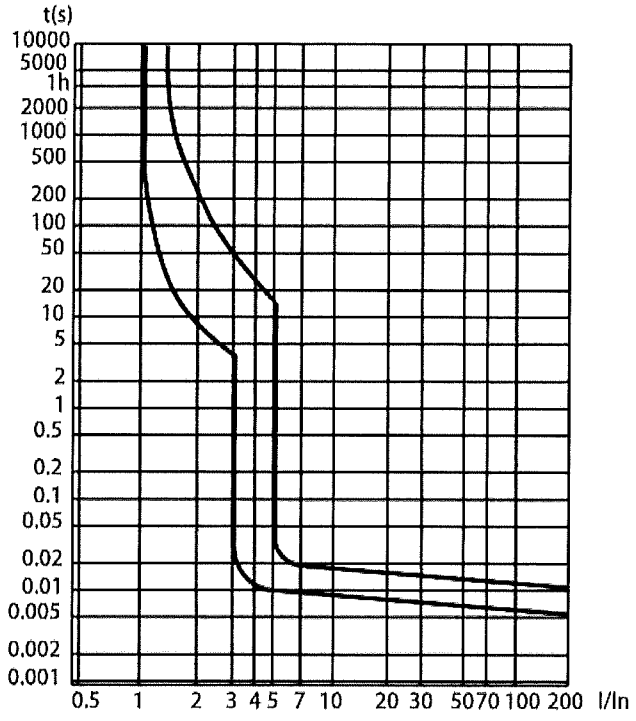
		class 3	
Rated shortcircuit capacity	Rated Current	type B	Type C
		I^2tmax (A^2s)	
6000A	50A, 63A	65000	75000
	40A	54000	63000
	20A, 25A, 32A	45000	52000
	6A, 10A, 16A	35000	40000

9. Normal Conditions for Operation in Service
Ambient Temperature -5℃ ~ +40℃
Relative Humidity not exceeding 50% at 40℃ (90% at 20℃)
Altitude not exceeding 2000m

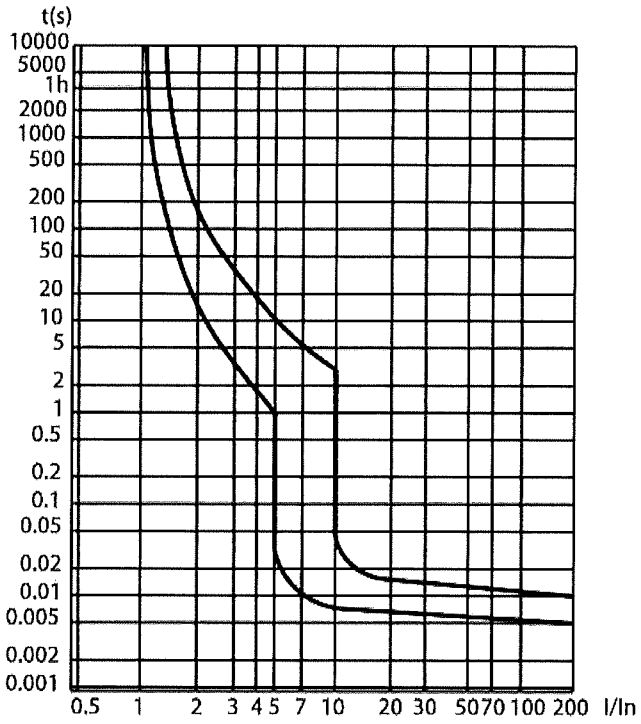

17.7±0.2
80.5±0.35
36±0.35
45.5±0.35
50±0.35
66±0.35
75.6±0.35


17.7±0.2
35.4±0.35
53.1±0.35
70.8±0.35

B Type



C Type



D Type