



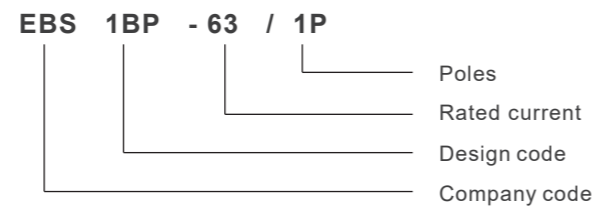
### 1.Function

EBS1BP Series Plug-on circuit breaker is used in protection lighting or power distribution system from overload and short-circuit, apply to the circuit of AC 50/60Hz, rated voltage less than 415V. The product adopts high fire resistant and shockproof plastics, quality metal materials, which is newly-designed in structure, light in weight, reliable in performance.

EBS1BP Plug-on circuit breakers have an overcenter, trip-free toggle mechanism with quick-make, quick-break action and positive handle indication.

Products comply with IEC60898-1.

### 2.Nomenclature



### 3.Specifications

Standard		IEC/EN 60898-1
Poles	P	1P, 2P, 3P, 4P, 1P+N, 3P+N
Rated current In (A)	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A
Rated voltage Un (V)	V	240/415V
Tripping characteristic		B, C, D
Protection grade		IP20
Installation		Plug-on
Breaking capacity	kA	6
Connection capacity	mm <sup>2</sup>	≤25mm <sup>2</sup>
Electrical life (times)		4000
Mechanical life (times)		10000

Model	Rated voltage(V)	Breaking capacity
EBS1BP	1P: 240/415V	6000A
	2-4P: 415V	6000A

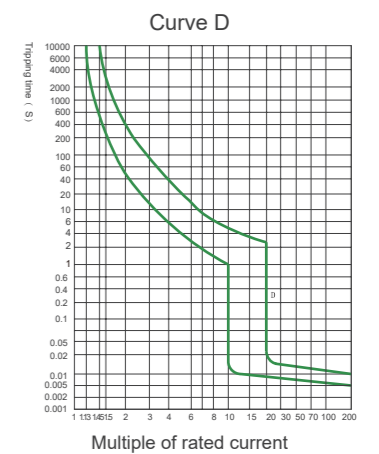
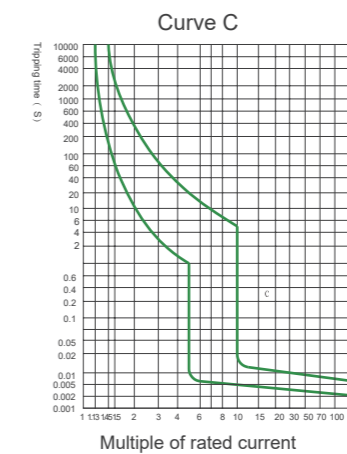
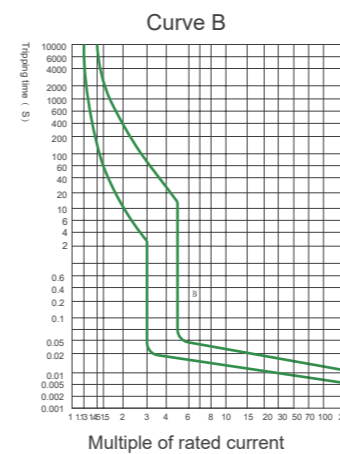
### 4.Applicable Working and Busbar Connection

Model	Breaking capacity
Ambient temperature	-5~+40 °C, the average value cannot exceed to +35 °C within 24h
Altitude	≤2000m
Relative humidity	≤95%
Pollution level	II.It should be used appropriate casing to protect against high level of pollution
Installation location	mount on the place where has no obvious vibration or impact

### 5.Release

Item	Tripping Curve	Test current In(A)	Initial Status	Time limit for tripping or non-tripping	Expected result	Remarks
a	B/C/D	1.13In	Cold	t≤1h	Non-tripping	Current smoothly rises to specified value within 5s
b	B/C/D	1.45In	Following item a test	t<1h	Tripping	
c	B/C/D	2.55In	Cold	1s<t<60s(In≤32A) 1s<t<120s(In>32A)	Tripping	
d	B	3In	Cold	t≤0.1s	Non-tripping	Switch on the power supply by closing the auxiliary switch
	C	5In				
	D	10In				
e	B	5In	Cold	t<0.1s	Tripping	
	C	10In				
	D	20In				

Note: The term "cold" means that the test is carried out at a reference calibration temperature without load before the test.



## 6. Conductor

Copper cross-section(mm <sup>2</sup> )	Rated current In(A)
1	In≤6
1.5	6<In≤13
2.5	13<In≤20
4	20<In≤25
6	25<In≤32
10	32<In≤50
16	50<In≤63

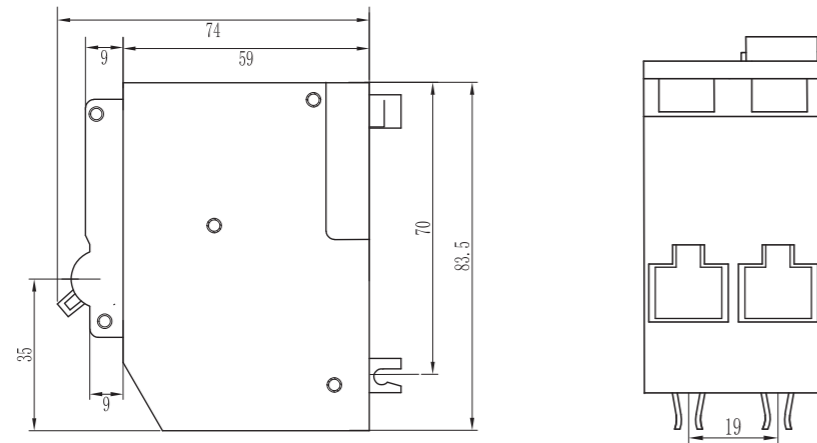
## 7. Temperature Derating

The maximum permissible current in a circuit breaker depends on the ambient temperature where the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed. The reference temperature is 30 C.

When several simultaneously operating circuit breakers are mounted side by side in a small enclosure, the temperature rise inside the enclosure causes a reduction in current rating.

You must then assign the rating (already derated if necessary according to ambient temperature), a derating factor of 0.8.

## 8. Dimensions



## 9. Order Note

Following items should be marked when ordering	Ordering sample
Product name, model & frame level	To order EBS1BP plug on circuit breaker, 1 poles, curve C, rated current is 32A, quantity is 180 pieces, should be marked: EBS1BP 1P C32A 6kA, 180PCS.
Poles	
Tripping characteristic and rated current	
Quantity	