

## B Frame - Series Miniature Circuit Breakers



The B Frame is a very compact yet robust circuit breaker. Used in various applications where space is constrained, the B Frame is available in a variety of configurations, with different types of handles such as standard, rocker, protected rocker, push-pull, and push-to-reset handle types. The B Frame is suitable for various applications in telecom, lighting, railway signalling and solar applications. The B Frame is also available as a 300V DC double pole switch.

### B Frame Profile

The B Frame is available in single pole and double pole configurations. This miniaturised precision breaker is available for both AC and DC applications, with a choice of time delay characteristics and auxiliary switch options. The B Frame provides the solution when space constraints exist.

### Approvals

The B Frame circuit breaker carries various approvals such as VDE, cURus, CSA, EAC, CCC and is CE certified. It is also recognised to UL 1077, UL 1500, UL 508 and listed to UL 489A.



### Features

- AC and DC circuit breaker
- Hydraulic-magnetic technology
- 100% rating capability independent of ambient temperature
- Up to two poles
- VDE, EAC and CCC approved, CE certified
- UL compliant (recognised / listed)
- Ratings 0.1 to 30 A (specific certifications)
- Precision tripping characteristics
- Wide range of circuits, mountings, terminations and time delays
- Optional auxiliary switch
- Optional illuminated rocker handle
- 300V DC switch

### Applications

- Lighting equipment
- Office equipment
- Power supplies
- Telecom power distribution
- Small generators and motors
- Railway signalling systems
- Entertainment systems
- Marine power systems
- Vending machines
- Power distribution units (PDU)
- Suitable for motor starting
- Solar and renewable power

## B Frame - Series Miniature Circuit Breakers

### Technical Data

Product Type	B Frame
Operating Temperature Range	-40 °C to +85 °C
Endurance	10000 operations - 1500 electrical at rated current and voltage (IEC 60934) 6000 electrical operations (UL 1077)
Dielectric Strength	1000 - 2000V, 50 Hz for one minute after testing (IEC 60934)
Weight	30 g single pole, 60 g double pole (unpacked)
Humidity	35 to 85% relative humidity
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	50 G to MIL-STD-202G-213B-A
Vibration	10 G to MIL-STD-202G-204D-A
Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28
Toxicity	F1 - Smoke index of ≤ 20 which determines the fume class
Pollution Degree	PD2 - Normally only non-conductive pollution occurs. Temporary conductivity caused by condensation is to be expected.
Accessories	Mounting Accessories, Legend Plate

Product Type	Circuit Breaker	Circuit Breaker	Switch
Approvals	UL 1077 / CSA, UL 1500, IEC / EN 60934, CCC, CE, EAC	UL 489A, IEC / EN 60934	UL 508
Number of Poles	1, 2	1	2
Maximum Voltages	240 V AC, 65 V DC	80 V DC	300 V DC
Current Ratings	0.1 - 30 A (AC), 0.1 - 25 A (DC)	0.1 - 30 A	15 A
Interrupting Capacity	1 kA @ 240 V AC 0.5 kA @ 65 V DC	0.6 kA @ 80 V DC 1 kA @ 65 V DC	-
DC Polarity	-	Polarity Sensitive	Polarity Sensitive

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