

C Frame - Series Miniature Circuit Breakers



The C Frame is a traditional circuit breaker with a front mount profile.

Approvals

The C Frame carries various approvals such as VDE , cURus, CSA and is CE certified. It is also recognised to UL 1077, UL 1500 and listed to UL 489A.



Features

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

Applications

- Telecom DC power distribution
- UPS equipment
- Mobile power generation equipment
- Power conditioning equipment
- Alternative energy equipment
- Lighting control

Note:

Also known as C Frame MKII and CR Frame.

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Technical Data

Product Type	C Frame
Operating Temperature Range	-40 °C to +85 °C
Endurance	10000 electrical operations at rated current and voltage (IEC 60934) 6000 electrical operations (UL 1077)
Dielectric Strength	1000 - 2000 V, 50 Hz for one minute after testing (IEC 60934)
Weight	50 g per pole (unpacked)
Humidity	35 to 85% relative humidity
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	100 G to MIL-STD-202G, test method 213B, test condition 1
Vibration	10 G to MIL-STD-202G test method 204D, test condition 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Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28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	Protective splash boot, mounting hardware 6 - 32, M3 Screws

Product Type	Circuit Breaker	Circuit Breaker	Circuit Breaker
Approvals	UL 1077 / CSA, UL 1500	IEC / EN 60934, VDE, CE	UL 489A
Number of Poles	1 - 3	1 - 3	1
Maximum Voltages	240 V AC, 277 V AC, 65 V DC	240 V AC, 65 V DC	30 V DC
Current Ratings	0.1 - 30 A	0.1 - 30 A	0.1 - 30 A
Interrupting Capacity	3 kA (AC), 1 kA (DC)	3 kA (AC), 1 kA (DC)	5 kA
DC Polarity	-	Polarity sensitive	Polarity sensitive

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