

EC-E Electronic Circuit Breakers

FAQ

1. Why is there a need for this product?

EC-C circuit breakers expand Phoenix Contact's circuit breaker product line with an electronic protection device approved for UL-1604 Class I, Division 2 and UL-2367 use in non-hazardous locations.

2. How many models of the product will be available?

Three – EC-E1 with N/O signal contact, EC-E4 with N/C signal contact and EC-E which has reset capability and a status output.

3. What are the amperage ratings?

The EC-E series is available in 0.5A, 1A, 2A, 3A, 4A, 6A, 8A, 10A, 12A ratings.

4. What load types does EC-E protect?

The EC-E series of circuit breakers selectively protect all 24Vdc load circuits connected to a power supply.

5. What are the approvals for EC-E?

EC-E is UL-1604 Class I, Division 2, Groups A, B, C, D for use in hazardous environments, UL-2367 for use in non-hazardous environments.

6. Does EC-E have any status outputs?

EC-E1 has an N/O signal contact, EC-E4 has an N/C signal contact, and EC-E will have solid-state output. All products have LED indicators.

7. Can the EC-E circuit breaker be remotely reset?

Yes, the EC-E model has remote reset capabilities. The breaker resets from the off position via an external momentary switch due to the falling edge of a +24V pulse.

8. Can the EC-E be bridged to form multi-pole circuit breakers?

Yes. The following Phoenix Contact plug-in bridges save EC-E wiring assembly time:

FBST 500-PLC-BU (2966692)

FBST 500-PLC-RD (2966786)

FBST 500-PLC-GY (2966838)

FBST 500 TMC-N GY (0901028)

9. What is the DIN rail footprint of the EC-E circuit breaker product?

EC-E is only 12.5mm wide, making it one of the smallest designs on the market with Class I, Division 2 approval.

10. What kind of markers can be used on the EC-E circuit breaker product?

The UC-TMF12 & ZBF 12 marker strips can be placed on the EC-E to simplify circuit identification.

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