



# Circuit Breaker

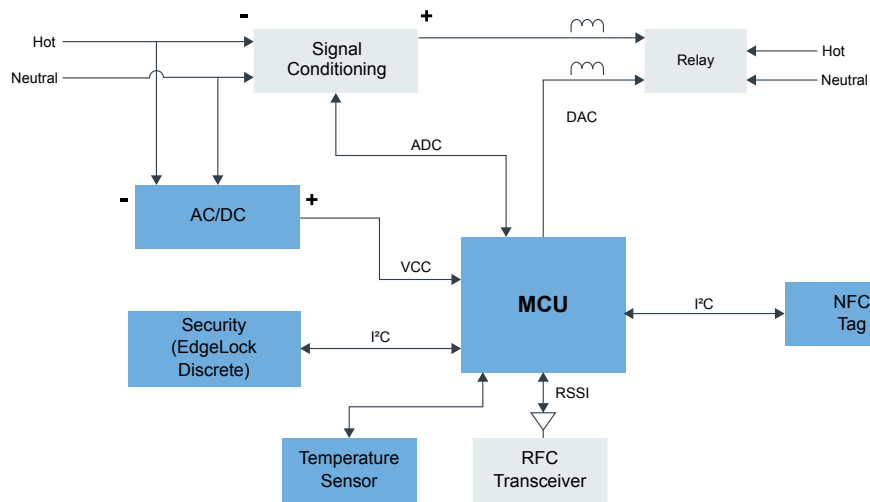
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An Arc fault circuit breaker is an automatically operated electrical switch designed to protect an electrical circuit from damage caused by excess current, typically resulting from an overload or short circuit. A circuit breaker could be used either in a commercial or residential environment depending on the electrical current it can handle.

Industrial circuit breakers are used in warehouses, factories, or any location with a large electrical distribution.

Residential circuit breakers guard the home electrical system from a fire caused by an electrical fault.

## Circuit Breaker Block Diagram



■ NXP Technology   ■ Non NXP Technology   □ Optional Technology

### Recommended Products for Circuit Breaker

MCU	<ul style="list-style-type: none"> <li>• <b>KV1x</b>: Kinetis® KV1x-75 MHz, Entry-Level 3ph FOC / Sensorless Motor Control MCUs based on Arm® Cortex®-M0+</li> <li>• <b>KW21Z</b>: Kinetis® KW21Z-2.4 GHz 802.15.4 Wireless Radio Microcontroller (MCU) based on Arm® Cortex®-M0+ Core</li> <li>• <b>KW41Z</b>: Kinetis® KW41Z-2.4 GHz Dual Mode: Bluetooth® Low Energy and 802.15.4 Wireless Radio Microcontroller (MCU) based on Arm® Cortex®-M0+ Core</li> </ul>
Security (EdgeLock Discrete)	<ul style="list-style-type: none"> <li>• <b>SE050</b>: EdgeLock® SE050: Plug and Trust Secure Element Family – Enhanced IoT security with high flexibility</li> </ul>
AC/DC	<ul style="list-style-type: none"> <li>• <b>TEA1721AT</b>: HV Start-Up Flyback Controller with Integrated MOSFET for 5 W Applications, F~burst = 430 Hz</li> </ul>

NFC	<ul style="list-style-type: none"><li>• <a href="#">NTAG_I2C</a>: NTAG I<sup>2</sup>C Plus 2K: NFC Forum Type 2 Tag with I<sup>2</sup>C Interface</li></ul>
Temperature sensor	<ul style="list-style-type: none"><li>• <a href="#">P3T1035xUK</a>: I3C, I<sup>2</sup>C-Bus, ±0.5 °C Accuracy, Digital Temperature Sensor</li><li>• <a href="#">P3T2030xUK</a>: I3C, I<sup>2</sup>C-Bus, 2.0 °C Accuracy, Digital Temperature Sensor</li><li>• <a href="#">PCT2075</a>: I<sup>2</sup>C-Bus Fm+, 1 Degree C Accuracy, Digital Temperature Sensor and Thermal Watchdog</li></ul>

View our complete solution for [Circuit Breaker](#).

**Note:** The information on this document is subject to change without notice.

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