


Circuit Protection Selection Guide



Product Key

- Thermal
- Thermal-Magnetic
- Magnetic/ Magnetic-Hydraulic
- High Performance
- Electronic
- Solid State (SSRPCs)
-  Optional Illumination
-  Remote Capability

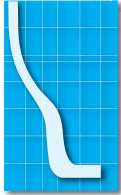
Circuit Protection Technologies

Thermal



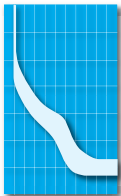
Heating effect of current through a bi-metal thermal actuator, thermal circuit breakers offer one of the most reliable and cost effective types of circuit protection.

Thermal Magnetic



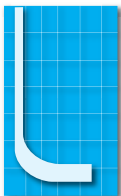
Latching type bi-metal is combined with a magnetic coil to provide the joint benefits of delayed operation for low level overcurrent protection and fast magnetic action on higher value short-circuits.

Magnetic-Hydraulic



An effective design of solenoid coil with a hydraulic delay which provides tripping that is highly tolerant to changes in ambient temperature.

Magnetic



Fast acting characteristics for printed circuit board applications and higher current devices. Magnetic circuit breakers are designed with a unique unique method of operation, it provides rapid response time, and is well suited for impulse disconnection.

104	105	106	1110
 0.05... 10A AC 250V; DC 48V	 0.05... 10A AC 250V; DC 48V	 0.05... 10A AC 250V; DC 48V	 0.05... 16A AC 250V; DC 50V
1410	1610	1658	3120
 0.63... 10A AC 250V; DC 48V	 5... 30A DC 32V	 5... 30A AC 240V; DC 28V	 0.1... 20A AC 250V; DC 50V
2210-S	2215	808	8340-F
 0.1... 25A AC 277V; DC 65V	 0.05... 10A AC 250V; DC 75V	 0.01... 5A AC 120V; DC 60V	 0.02... 50A AC 250V; DC 80V
447	452	482	483
 100... 400A DC 28V	 50... 125A DC 72V	 0.1... 50A AC 115V; DC 72V	 1... 35A AC 115V; DC 75V
5140	9510	ESS20	ESX10-T
 20... 50A 3 AC 200V; DC 28V	 Simulator Switch DC 12V, 24V, 28V, 48V	 0.5... 10A DC 24V	 0.5... 12A DC 24V

<p>1140</p>  <p>3.5... 16A AC 250V; DC 50V</p>	<p>1160</p>  <p>12... 30A DC 12V</p>	<p>1170</p>  <p>3... 25A DC 28V</p>	<p>1180</p>  <p>0.1... 10A AC 250V; DC 72V</p>
<p>3130</p>  <p>0.1... 20A AC 250V; DC 50V</p>	<p>3131</p>  <p>0.1... 20A AC 250V; DC 32V</p>	<p>2-5700</p>  <p>0.05... 25A AC 250V; DC 50V</p>	<p>201</p>  <p>0.05... 16A AC 250V; DC 80V</p>
<p>8340-G</p>  <p>0.02... 50A AC 250V; DC 110V</p>	<p>8345</p>  <p>0.1... 125A AC 277V; DC 110V</p>	<p>412</p>  <p>7.5... 35A AC 115V; DC 28V</p>	<p>413</p>  <p>30... 90A AC 115V; DC 28V</p>
<p>4120</p>  <p>0.5... 25A AC 115V; DC 50V</p>	<p>4140</p>  <p>20... 50A AC 115V; DC 28V</p>	<p>4930</p>  <p>5... 100A AC 115V; DC 28V</p>	<p>583</p>  <p>1... 30A 3 AC 200V; DC 28V</p>
<p>E-1048-8I</p>  <p>1... 20A DC 12/ DC 24V</p>	<p>E-1048-8C</p>  <p>1... 25A DC 12/ DC 24V</p>	<p>E-1048-8D</p>  <p>1... 25A DC 12/ DC 24V</p>	<p>E-1048-7</p>  <p>0.5... 4A DC 24V</p>

Terminals



Quick Connect 0.250*



Combination
0.250 X 0.110*



Quick Connect 0.110*



Screw Terminals



Stud Terminals



Plug-in Terminals



Blade Terminals



PC Board

* Quick connect not recommended for current ratings greater than or equal to 25A

Actuator Styles

Push-to-Reset



When tripped, user pushes actuator to original position to reset the breaker. Ideal to avoid accidental actuation.

Push-Push



User pushes the actuator to engage and pushes the actuator to disengage.

Manual Release



User disengages the breaker with the use of the release button.

Push-pull



User pushes actuator to engage and pulls actuator to disengage.

Toggle



Traditional breaker handle (on/off position).

Rocker



Used in switch/ circuit breaker combination.

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