

Confidence Around Water

Electrical Protection for Pools, Spas, and Water Features

Solutions for Designers, Owners, and Installers



Expertise Applied | Answers Delivered



Commercial pools, spas, and water features rely on a robust electrical infrastructure to keep pumps, heaters, and filtration systems running safely. Ensure every part of your system works together for maximum safety and performance. Littelfuse has the comprehensive electrical protection and control solutions built to meet NEC standards – giving you the confidence that your installation is protected, compliant, and built to last.



Pump and Motor Protection

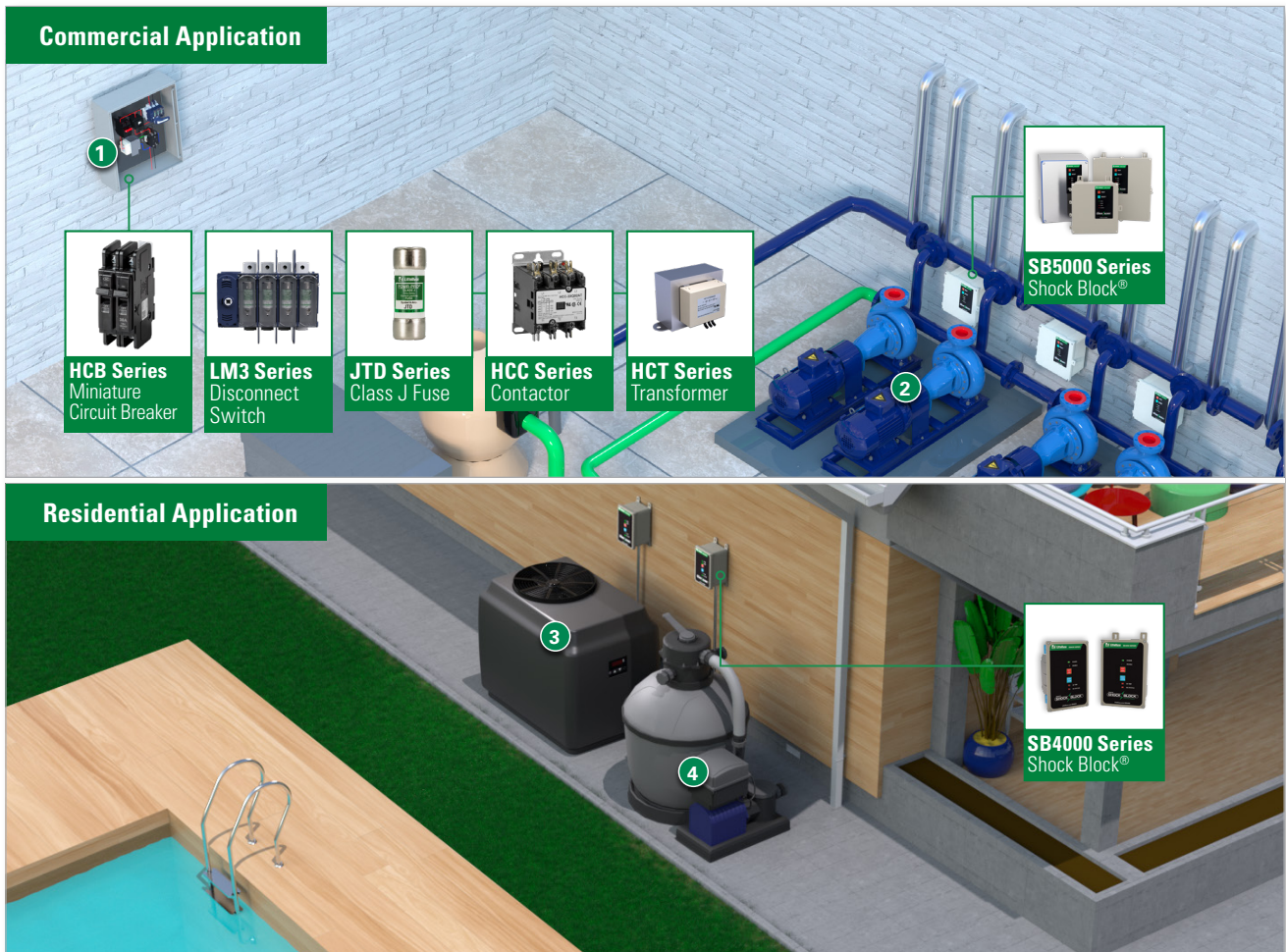
Safeguard motors and pumps against overloads, short circuits, and electrical faults – extending equipment life and keeping water circulation systems running safely and efficiently.



Shock Block® Shock Protection

Shock Block is the most comprehensive UL 943 listed GFCI on the market, allowing pool and fountain applications to be ahead of the game when it comes to code compliance. Prevent electrical shock incidents, support compliance with NEC requirements, and deliver added peace of mind. Your guests stay safe – and your installation stays protected.

Shock Block in Pool and Spa Applications



1 Electrical Panel

2 Circulation Pump

3 Heater

4 Filter Pump

Multiple Product Solutions for Your Application

Product	How it Helps	Key Features
 <p>SB5000 Series Shock Block</p>	Meet NEC 680.5 that requires GFCI and SPGFCI protection for 3-phase 208 V – 480 V equipment 100 A and below.	<ul style="list-style-type: none"> UL 943 inverse time trip curve and advanced filtering algorithm to prevent nuisance tripping Two-stage ground monitor adds protection from broken or damaged ground wire
 <p>SB4000 Series Shock Block</p>	Meet NEC 680.5 that requires Class A GFCI protection for 3-phase 208 V – 240 V equipment 30 A and below.	<ul style="list-style-type: none"> UL 943 inverse time trip curve and advanced filtering algorithm to prevent nuisance tripping Streamlined design with no flying leads, user defined knockouts, and adjustable mounting feet
 <p>HCT Series Transformer</p>	Excels at stepping down voltage. Power ratings up to 250 VA with a variety of primary and secondary voltages to 575 V ac and frequencies at 50 and 60 Hertz.	<ul style="list-style-type: none"> Class II ratings Quick connect and lead termination options to streamline installation
 <p>HCC Series Contactor</p>	Meet a broad range of system needs. Helping to streamline installation. Heavy duty silver alloy extends the life of the product. Double E magnet assembly reduces power use.	<ul style="list-style-type: none"> Universal mounting configuration Termination options include combo screw, screw with pressure plate, and lug
 <p>HCB Series Miniature Circuit Breaker (MCB)</p>	Thermal-magnetic circuit breaker automatically opens a circuit under overload or short circuit conditions. Ranging from 10 to 60 amperes they are versatile for residential or commercial applications.	<ul style="list-style-type: none"> 1, 2, and 3-pole configurations Flush-, surface-, or DIN-rail mounting streamlines installation Lug or ¼" quick connect terminal options meet broad range of system needs
 <p>LM3 Series Disconnect Switch</p>	Engineered with visible blade disconnect enabling safe equipment isolation, simplified maintenance, and reduced arc-flash risk.	<ul style="list-style-type: none"> Touch-safe transparent fuse covers Optional handle choices adapt to system designs
 <p>JTD Series Class J Fuse</p>	Engineered with dual-element construction and current-limiting features to reduce fault damage. Patented technology improves system performance and reliability.	<ul style="list-style-type: none"> Amp rating ranges from 0.8 A to 600 A Reduces damage caused by heating and magnetic effects on short-circuit currents
 <p>460 Series Voltage Monitor</p>	Saves set up time by automatically senses system voltage between 190–480 V ac or 475–600 V ac. Prevents nuisance tripping due to rapidly fluctuating power line conditions.	<ul style="list-style-type: none"> Microcontroller-based circuitry improves accuracy and reliability Adjustable voltage unbalance trip setting improves reliability when regenerative voltage is present
 <p>MP8000 Advanced Motor Protection Relay</p>	Fully programmable via Bluetooth with the Littelfuse app. Protects any motor drawing 0.5-1,000 full load amperes (external CTs are required above 100 A).	<ul style="list-style-type: none"> Remote monitoring through iPhone or Android devices via Bluetooth or Ethernet Three selectable restart options and four programmable delay timers



Safer Pools Start Here



Code Ready Class A Shock Protection for Pools, Spas, and Water Features

Shock risk and code violations can close facilities and create liability. Many pump or heater controls in the ≤ 150 V to ground and ≤ 30 A space need robust and reliable Class A shock protection. Littelfuse can help.

For more information and product datasheets go to: [Littelfuse.com/CoolWater](https://www.littelfuse.com/CoolWater)

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