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How to find what is Circuit Breaker Tripping? Precautions to Use



Response Electricians – Your Perth Electrician

If you are looking for Electrical Repairs in Perth, must immediately get in touch with Response Fire and Electrical Services. Their electricians are highly skilled and provide excellent electrical repairs services in a matter of minutes at your place with the best price.

How to find what is Circuit Breaker Tripping? Precautions to Use

Electrical circuit breaker is a switching device which can manually or automatically operated for protecting or controlling the electrical power system and the electrical devices connected to it. The circuit breaker trips when it cannot handle the excess current load or when too much of electricity flows through it.

If the circuit breaker doesn't trips, fires in the house become a common issue. When a circuit breaker trips, then you must go to the place where the circuit breaker is actually located and again get the power back. It is important that special attention is given when the circuit breaker is designed in order to produce the safe interruption of arc during the operation of a circuit breaker. Although, the tripping of circuit breakers ensures safety, it can be quite frustrating to constantly experience them and getting the power back repetitively. If you are able to know the reason behind the constant tripping, you must take precautions to in order to avoid any damage.



Let's take a look at some of the reasons describing why circuit breaker trips frequently and the precautions to use to avoid any serious issue:

Circuit Overloads

A circuit overload is one of the main reasons stating why the circuit breakers constantly trips. This occurs when a particular circuit provides more electricity as against its actual capacity. This will lead to the overheating of the circuit that puts all the electrical appliances connected to the circuit at risk.

Precaution: The easiest way to solve this problem is to redistribute the power to some other circuits. If too many heavy appliances are connected to a single circuit, then move a couple of them to the one that isn't loaded. It is also essential that the circuits must not be loose. So, for checking this you must first switch off the power and look for any of loose wires. You can do this by closely inspecting the hot outlets and wires that lead from the service panel to the circuit breaker and then tight the connection that is loose.

Short Circuit

Short circuit is another common reason that why a circuit breaker trips that is even more dangerous than an overloaded circuit. This is caused when a 'hot wire' gets in contact with 'neutral wire' in one of the electrical outlets. At times, a short circuit is even caused by a broken wire within the beaker itself.

Whenever this happens, a large volume of current flow through the circuit, creating more heat than what the circuit can handle. When this happens, the breaker trip and this will shut off the circuit to prevent dangerous events such as fire.

Precaution: You can identify a short circuit by a burning smell around the beaker. Additionally, you may also notice a black or brown discoloration around it. If you find any cracks or signs of burning in the insulation, then immediately call a local electrician.

Ground Fault Surges

Ground Fault Surges are very much similar to the short circuits. They occur when a hot wire touches the ground wire which is made up of bare copper or the side of metal box that is connected to the ground wire. This will generate more electricity to pass

through it that the circuit cannot handle. The breaker trips in order to protect the appliances and circuit from potential fires or overheating.

Precaution: If ground fault surge occurs, you can easily identify it if any discoloration is found around the outlet. If you experience tripping of the circuit breaker regularly, then you must call an electrician. Don't even try to handle this issue on your own.



If a circuit breaker tips frequently trips in your home, then this means that it's a very serious issue and not something that can ignore. If you are looking for **Electrical Repairs in Perth**, must immediately get in touch with Response Fire and Electrical Services. Their electricians are highly skilled and provide excellent electrical repairs services in a matter of minutes at your place with the best price. Contact us today for more insights!