

# Thermal Circuit Breakers to Protect Against Electrical Overload

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**Experts warn that environmental factors should be taken into account when customers are selecting circuit breakers for their electrical equipment.**

According to Diane Cupples with Schurter Inc on Electronic Products and Technology, thermal circuit breakers protect engines and equipment against electrical overload and short circuits, and certain equipment require breakers which are suitable for their demanding operating environment.

This could apply to equipment such as concrete tampers, high-pressure cleaners, mobile generators, welding equipment and circular saws.

The article outlines how conventional circuit breakers have push-button operations which limit their ability to perform in these devices.

One point that was noted for the future design of thermal circuit breakers is that the devices are often worn with industrial gloves by those operating the machine equipment. This requires the breaker to operate safely and quickly with these gloves.

Flexibility is also an important consideration recognised, so designers provide various options in form, colour and labelling for the circuit breakers specific use.

## **Electronic Safety Devices**

Circuit breakers are electrical switches which are designed to switch off the electrical current in a device which may cause damage due to overload or short circuit.

Electrical devices can cause a lot of damage to their surroundings if they are not protected correctly. Some other safety measures include using waterproof and over moulded cable to prevent water or external elements damaging the connection, and from protecting against an electrical fire.

Strain relief systems also aim to take the pressure off the individual wires, so they do not become overloaded and break.

Grounding clamps are another safety device which prevents an electrical fault damaging the whole system, by grounding the excess electricity.

## **Electronic Component Suppliers UK**

Hunter Cable Assemblies has over 50 years experience in designing electronic safety devices for clients, along with expertise in cable assembly, connectors, static control and industrial cooling solutions.

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