



PFIM Type Bfq for schools

Children are our future. And laboratories in schools reflect that: sophisticated laboratories need special protection due to the experimental nature of such applications. Protection devices with the highest sensitivity for every possible school experiment is the solution for this special use case.

General information

Laboratories and experimental set-ups are often equipped with very costly equipment which pose a high uncertainty in regards of the behavior of the connected equipment and it's possible implications on the safety level of an installation. What this application requires is the highest standard of protection devices with a broad range of sensitivity and high reliability due to the possible risk of damages to expensive equipment or bodily harm during experiments.

Why type Bfq?

In principle, DC or high-frequency fault currents must be expected when experiments are conducted in laboratories within schools. Frequency-driven 3-phase electric motors, electronic circuits or measurement set ups are only a few possible connected devices within such a special application. This makes the installation of a type B RCCB* necessary since the application needs to be protected by an all-current sensitive device. Unlike an often used type A RCCB, a type B device can deal with DC leakage currents and high frequency residual currents which can be present in such applications. Residual currents with a frequency of several (!) kilohertz are not so seldomly found when testing equipment or special loads are connected within an electrical system.

The Eaton PFIM type Bfq has an extended tripping curve up to 50 kHz which is far beyond the required 1 kHz of the standard. Every electrical installation should be protected to the highest possible degree and the solution is the type Bfq. Eaton is not relying on a solution that meets the standard, it is focused on the highest safety levels of the future-oriented electrical installation!

Advantages of the PFIM type Bfq

Eaton's PFIM type B meets the highest safety standards when used for fault or additional protection and achieves the highest accuracy through its digital detection, thus preventing unwanted false tripping and ensuring maximum system availability. Furthermore, the electrical installation is ready for the future!

RCCB - Residual Current Circuit Breaker*

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Publication No. AP011003EN
May 2023

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