PFIM Type Bfq for workshops

Safety of your staff is important. And with the introduction of new tools and equipment your electrical installation needs to adapt, the same as your employees! Therefore, a new generation of protection devices is needed.

General information

Availability of your electrical system is crucial when you have a workshop with tools such as power machinery, power supplies, welding equipment or air compressors. Time is money! In addition, the safety of your employees and costumers shall have highest priority. All that requires the application of sophisticated protection devices which need to offer the highest standards in regards of sensitivity and availability of your system.

Why type Bfq?

In principle, DC or high-frequency fault currents must be expected when deploying a frequency-driven tool or machine. This makes the installation of a type B RCCB* necessary since the application needs to be protected by an all-current sensitive device. Unlike the current standard protective switchgear, a type B device can deal with DC leakage currents generated by built in frequency inverters and is not negatively affected by them. However, in the event of a fault, these tools and machines could generate residual currents with a frequency of several (!) kilohertz. The standard specifies a trip curve up to 1kHz for a type B RCD, but Eaton goes a step further:

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!

In addition, PFIM type B provides improved reliability against inrush- and surge currents generated by capacitive filters and inductive loads

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*

Powering Business Worldwide

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