PFIM Type Bfq for medical used areas

Patient safety and availability of the electrical system supplying medical devices has the highest priority when designing an installation for a medical used area such as doctor´s offices, nursing homes or similar areas.

General information

Medical devices are highly sophisticated electronic devices which need a high reliability of the supplying system as well as the highest standards of protection.

What this application requires is the highest standard of protection devices with a broad range of sensitivity and high reliability since a false trip of a protective device can generate issues in regards of patient care and efficiency of medical processes. Availability is crucial, therefore the most competent protective device is needed

Why type Bfq?

In principle, DC or high-frequency fault currents can be expected when medical areas are supplied. This makes the installation of a type B RCCB* necessary since the application needs to be protected by an all-current sensitive device. Unlike a normally used type A RCCB, a type B device can deal with DC leakage currents generated by a frequency inverter, power electronics or power supplies and is not affected by them.

Especially for medical used areas a focus shall be laid on availability and guaranteed function of the protection concept: It is required to identify the amount of end circuits behind an RCCBs and to evaluate if additional RCCB circuits are needed to improve the availability of these end circuits. PFIM type Bfq offers highest in class availability due to improved surge current capabilities surge current proofness up to 3 kA, a short time delayed tripping curve as mentioned and required by the standard. Eaton provides safety above standard and makes sure that selection and erection of such applications can be done as easily as possible.

Every medical used 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 Bfq 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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Publication No. AP011002EN
May 2023

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