

Software-free monitoring Relays

Undervoltage (AC3~; DC), Timer Relay

The software-free monitoring devices offer a nuclear qualified and long-term available solution

Challenge

Monitoring relays are available on the industry market. These devices almost always incorporate memory or programmable integrated circuits. The qualification approach of these components results in higher risk and expenditure.

In safety applications, long service life and long-term availability of the qualified product is essential. Many commercial products do not often offer long product lifetimes and the long-term availability of the qualified version is limited. The necessary requalification approaches, which are advertised as continuous improvements, are also time consuming. Moreover, the increasing demands in seismic acceleration need to be addressed by design before testing and failing, therefore a solution for this is needed.

Solution

Framatome software-free relays:

- Offer software-free design
- Are designed for increased seismic demands
- Are multifunctional

They are designed inhouse as a standardized platform family of monitoring relays for safety application.



Timer Relay



Undervoltage Relay 3~

Technical information

- IEC60715 Rail Compatibility
- 2 LED (Operation / Triggered)
- Mode selector
- 2 Changeover contacts
- Variants:
 - 4012226 Timer Relay
 - 4012233 3 Phase AC Undervoltage
 - 4012229 DC Undervoltage

Customer benefits

- Long-term product lifetime
- Designed for safety application
- Software-free
- Cost effective design

Key figures

Software-free, Long design life and nuclear qualified

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