

The Need To Know



Understanding RCD Types and the 18th Edition
requirement

VERSO[®]

PGL

Premspec House,
West Point Industrial Estate,
Penarth Road,
Cardiff,
CF11 8JQ

Head office: 029 2130 708
enquiries@versoelectrical.co.uk
www.versoelectrical.co.uk

VERSO[®]
domestic circuit protection

The Need To Know

RCDs and what the Regulations say:

531.3.3: "Different types of RCDs exist, depending on their behaviour in the presence of DC components and frequencies."

BS 7671 references Type AC, Type A, Type F, Type B

RCD Selection (536.3.3)

"Different types of RCD exist, depending on their behaviour in the presence of DC components and frequencies. The appropriate RCD shall be selected" RCCBs and RCBOs are available in a variety of types, each design to support different current behaviours in the presence of DC component or different frequencies. When designing the installation one must select the correct device type for specific applications.

RCD CLASS	Classification	Examples
AC	General Purpose on pure AC 50/60Hz only. Not suitable where Pulsating DC exists	Resistive capacitive such as Immersion heater, Oven, Hob etc.
A	Suitable for use on pure AC AND where pulsating DC Exists up to 6mA	Equipment that features electronic components. Type A devices are suitable for all AC Applications
F	AC + A + High frequency 10Hz < 1Khz	Frequency controlled equipment and appliances: White goods With synchronous motors
B	AC + A + smooth DC + High Frequency 10Hz < 1Khz	Three phase electronic equipment: Industrial machines Cranes, EV charging when DC fault current < 6mA

All Verso consumer units with RCD requirement come with 100A 30mA Type A RCCBs. This covers 92% of all current domestic installations.

Your VERSO Solution:

With careful considerations and considerable research into domestic circuits and the nature of the loads connected to these circuits combined with the frequent use of RCDs (both RCCBs and RCBOs), it is our belief that the majority of electrical circuits in residential and commercial applications will requires a **TYPE A RCD** solution.

With this in mind, VCP has developed a wide range of Type A RCD products including RCCBs and RCBOs. We have even taken a further step to ensure that all High Integrity Smart Design 1.0 split load consumer units are factory fitted with 100A 30mA Type A RCCBs as standards.

