Make safety a priority

Acti9 iID B-SI Type RCCB

Ensure global safety standards compliance with smart, reliable, connected Type B Residual Current Circuit Breakers from Schneider Electric.

schneider-electric.com
Residual Current Circuit Breakers (RCCB) are our best defense against electrical hazards. They are devices that protect users from electrocution, and property from damage.

It’s no surprise then that the International Electrotechnical Commission (IEC) is making Type B RCCBs mandatory for certain applications and vigorously recommending it for other applications.

Are you aware of these applications? And, are you familiar with the latest standards for these applications?

Let’s take a closer look at these applications...

Thanks to our smart and reliable Acti9 iID B-SI Type RCCB, Schneider Electric will help you stay up to date in terms of new IEC standards compliance.

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Acti9 iID B-SI Type RCCB

To protect people, RCCBs are designed and certified to protect from fibrillation, electrical shocks and electrocution - for example, in the event of a person coming into direct contact with a wire.

Today, new electrical installations come with additional equipment, such as inverters for photovoltaic installations, speed drive in HVAC systems, pumps and UPS. These non-linear loads produce complex leakages in DC and in frequencies that cannot be detected by standard AC or Type A RCCBs.

B-SI type RCCBs are the optimal solution for these complex loads, detecting high frequency AC and pure DC earth leakage currents in addition to normal AC leakages. Their high immunity to nuisance tripping makes Type B-SI RCCBs the ideal choice for protection and service continuity.
Become IEC compliant with Acti9 iID B-SI Type RCCB

Schneider Electric’s Acti9 B Type offers smart and compliant RCCB solutions across various fields of application

Buildings
IEC 61800-5-1 & IEC 62477-1

Today no building is complete without basic comforts like lifts, air conditioners and escalators. These are services used by all residents, visitors and the general public on a regular basis. Which means that any disruption or electrical hazard puts a large number of people at risk.

Industry
IEC 61800-5-1

Speed drives used in association with motors or integrated in a machine inject multifrequency components in the network, creating disturbed electrical environments. Standard A or AC Type RCCBs are blind to these disturbances and thus incapable of efficiently protecting people.

UPS Systems
IEC 62040-1

UPS systems are used when part of an installation with priority loads requires full energy availability. B-SI type technology helps protect from earth leakage current with DC components that can be produced in these systems.

Benefits of B-SI type

- Compatible with Acti9 connected and smart offer
- Seamless coordination with Schneider Electric residual current devices
- Continuity of service
- Fully validated with Schneider Electric speed drive offers
- SI technology to reinforce continuity of service
- Fully integrated in Acti9 systems
- Tested and validated with 3-pole speed drive
- Worldwide coverage and support with Schneider Electric’s network and partners
- SI technology to reinforce continuity of service
- Fully integrated in Acti9 systems
- Seamless coordination with Schneider Electric residual current devices
Medical facilities
IEC 60364-7-710

Patients and Medical staff need to be always protected when using equipment like X rays, magnetic resonance imaging, tomography, and such. These types of machines have AC/DC converters that require B-type protection.

Electrical Vehicle
IEC 60364-7-722

Electric vehicles are becoming increasingly popular, and charging stations need the appropriate protection for all users. Especially given that these stations are often located outside where they are exposed to the rain and used daily by untrained users. Type B RCCBs are the optimum protection for electric vehicle charging stations.

Photovoltaic
IEC 60364-7-712

Businesses and private individuals are increasingly more interested in green energies to reduce their environmental footprint. Photovoltaic systems use AC/DC converters which require B type protection to be compliant with national standards.

Benefits of B-SI type

- SI technology to reinforce continuity of service
- Seamless coordination with Schneider Electric residual current devices
- Compatible with Acti9 connected and smart offer
- Acti9 iID B type EV RCCB specifically designed for EV Charger
- Communication-ready with Acti9 solutions
- Tested and validated with Schneider Electric EV charger solutions
- Fully integrated in Acti9 systems
- SI technology better for severe environments
- Easy to select, install and identify in a panelboard
Acti9 iID B-SI Type RCCB

Visible Protection
This new Acti9 solution offers the following features:
- **Acti9 VisiTrip**: local fault identification – to signal that the breaker has tripped
- **Acti9 VisiSafe**: visible green trip signal – for safe handling of switch and breaker, and to prevent arc flash scenarios
- Specific visible marking – for quick identification in panel during maintenance and installation
- LED – to indicate that the protection is active (standard version only)
- B Type testing technology enabling a complete check of the tripping unit

A Reliable Offer
The Acti9 iID B-SI type RCCB offer is designed to enable the breaker to handle non-linear load waveforms and to provide continuity of service.
- SI (Super immune) type technology helps avoid nuisance tripping due to electronic disturbances on the network
- Tested with all Schneider Electric speed drives (Industrial & OEM application)
Visible protection
Easy to identify with the new marking LED on to indicate product is powered

Reliable offer
ATV600  ATV320  ATV212
Tested with all Schneider Electric speed drive offers and designed with SI type technology to avoid nuisance tripping

smart connectivity
PowerTag Wireless System

System Compatibility
The Acti9 B type is easy to install within any Acti9 system due to its fully integrated mechanical and electrical design:
- Same coordination table as Acti9 RCDs
- Fully compatible with Schneider A and SI type RCD (no risk of DC current blinding)
- Easy choice catalog with dedicated references for electric vehicles

Smart Connectivity
Acti9 iID B-SI type RCCB offers superb connectivity thanks to its system compatibility. By combining Acti9 Type B and PowerTag wireless sensors & gateways, Schneider Electric is delivering a fully system, featuring software for customers to easily monitor energy usage, and one that is EcoStruxure-ready.