

DC-Guardian for charging stations

ALC-DC6-CO30

Plug-&-Play-convenience

Only 1 component

Made in Germany

- Suitable for detecting DC residual currents at charging stations for Charging electric vehicles
 - System guarantees safe shutdown in conjunction with an existing RCD type A
 - 6 mA DC residual current limit corresponding DIN EN 61851-1 / IEC 62955
 - Including test button for testing the protection equipment





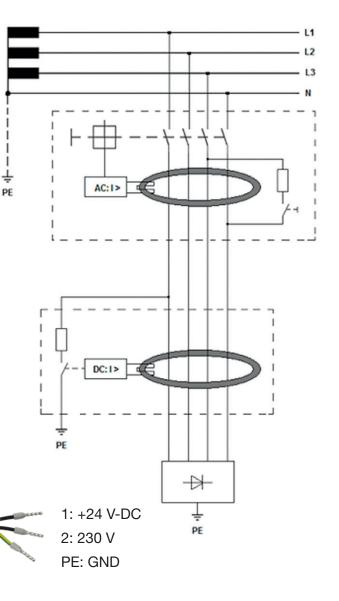
Intelligent protection device

Usually residual current circuit breakers (RCD) type A are used in a **TN or TT network**. Electric vehicles use charge side power semiconductors, which can produce **DC fault currents**. However, these DC fault currents can **affect** the protective of an RCD type A **negative**. For parallel occurring AC and DC residual currents, the RCD type A may need a **higher threshold current** or a **delayed switch-off time**. The limit for "blinding" the RCD is a DC fault current of >= **6 mA**.

Functionality

Between the RCD type A installed in the house distribution system and the electric vehicle the **DC-Guardian ALC-DC6-CO30** will be installed in series. The conductors to be monitored (phases and neutral) must be routed through the coil. If the module detects a **DC fault current of** >= 6 mA, an **AC fault current** is generated, which triggers the residual current circuit breaker type A in the house distribution. This ensures a secure **all-pole power separation**.





Technical specifications

DC current fault limit: 6 mA

Max. Load current: 32 A (3-Ph)

Rules: DIN EN 61851-1, IEC 62955

Approval:

Front dimensions: 40 x 57 mm

Depth: 26 mm

Inner Diameter: 13 mm

Cable length: 120 mm **Weight:** 100 g

Temperature range: -30..+70 °C

Supply voltage: 12..24 V-DC

AC trigger current: 70 mA

