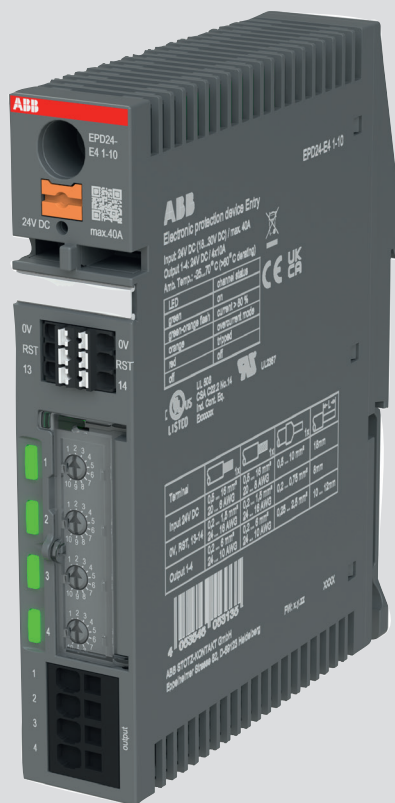


Selective protection of 24 V DC load circuits

EPD24



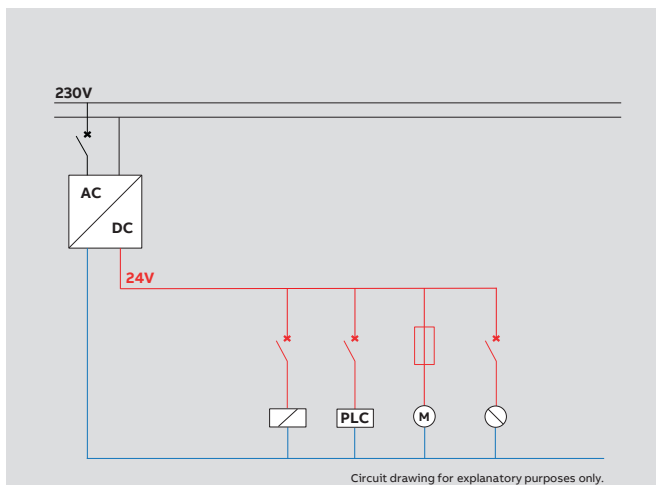
- Reliable protection
- Compact size
- Highly flexible and scalable
- Energy efficient
- Minimized wiring effort

Application insights

Increase machines uptime

The difference between a protected and unprotected application.

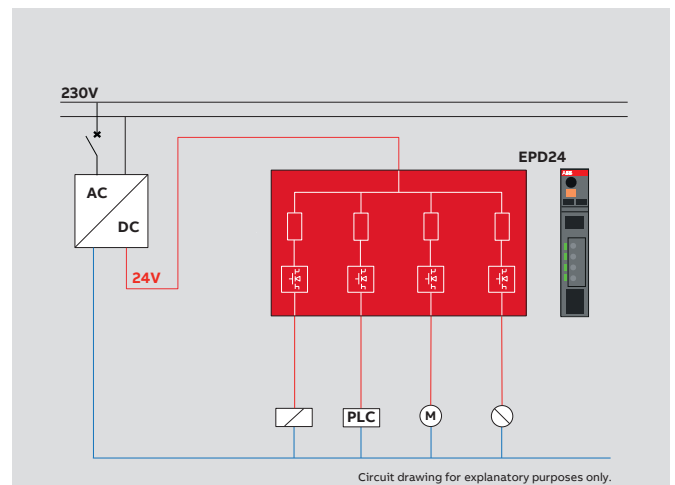
A protected circuit enables a single trip in the event of an overload. Each load is protected and operated individually to enable easy and fast troubleshooting.



Unprotected systems

A downtime within a production plant signifies not only a loss of money but also a disruptive occurrence, which adds complexity to the already numerous processes of any business.

Unprotected systems might look like a saving, but a system failure is not a matter of probability; for managers or business owners, it is important to be prepared since it will happen.



Protected systems

The Electronic Protection Device makes it possible to protect the equipments' multiple sub-systems: each load circuit is controlled separately, and only the eventual failure is intercepted, allowing a continuing service to other systems as well as a faster resolution time.

This ensures an higher uptime percentage and a more productive environment for any business.

The EPD24 ensures 2 main functionalities:



Protection of 24V DC load circuit

- Each load is protected individually
- Each load is operated individually
- In case of overload, only one circuit trips
- Easy and fast troubleshooting

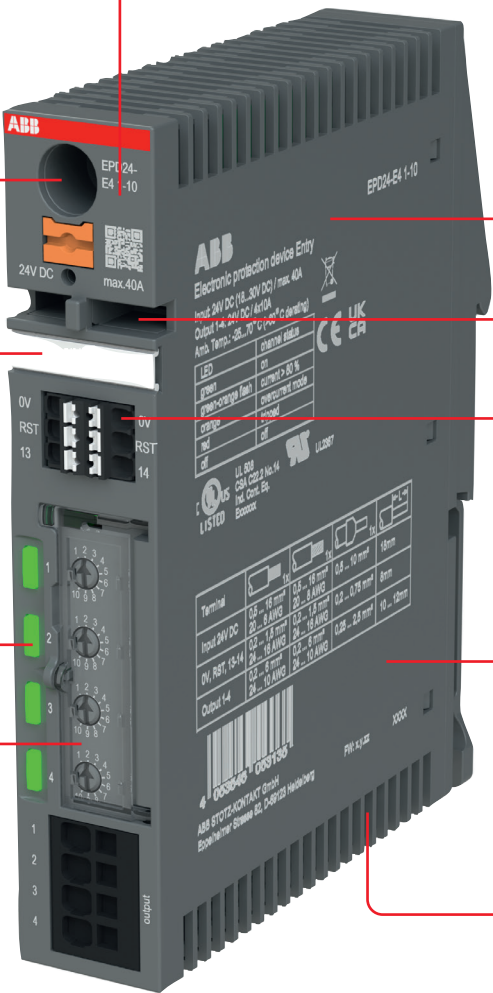


Protection of the power supply

- In case of overload, voltage collapses
- The main goal is to keep currents within limits to maintain voltage

EPD24

Reliable protection



Minimized wiring effort
Push-in terminals.

Customizable label
Devices can be marked to make any future intervention easier and faster.

Multi-colour LED indicators with pushbutton
ON/OFF/RESET button with integrated channel status indication.

Sealable rotary switches
Select the desired Amp on each line, a sealable transparent cover protects your setup.

QR-code
Simple access to product data and documents.

Approved and certified
According to UL508 and UL2367.

Channel extension
Seamless connection with jumpers.

Up to 60°C without derating
Impressive performance in severe conditions.

Small, flexible and modular
With a reduced number of SKUs you can cover the largest variety of applications.



Space saving

30% smaller
Only 25mm width, up to 4 channels, compatible with most of ABB devices formfactor.

-30% ↓



Optimized logistics

80% less SKUs
Entry and Advanced devices covering all possible applications.

-80% ↓



Energy efficiency

40% less power loss
High quality components reduce power losses to a minimum.

-40% ↓



Extreme reliability

No derating up to 60°C
Smooth integration within any systems and long-lasting life span.

—
ABB products are used all over the world, from small production lines to heavy industrial field, such as pharmaceutical, food processing, mining and power tools. Our mission is to provide customers with quality and state-of-the-art technology, every day.

**Reliable
solutions** }

{ **For consistent
process uptime**

EPD24

Machines and panel builder requirements tailor made solutions

Global availability and highly scalable design ensure an affordable, powerful and reliable coverage of the widest application fields.

From 0.5 to 12 A in a 25mm device, seamless expandability, front-top wiring, and easy integration with most ABB devices for a consistent and affordable portfolio.



Production plants
Food processing, bottling, packing, manufacturing.



Heavy machinery
Mining, moulding, woodworking, grinding.



Chemical and Pharmaceutical
Industrial automation, processing, packing.



Mechanical engineering
Power tools such as cutting, bending, punching, welding machines.



EPD24

Seamless integration with ABB power supplies

EPD24 is a perfect companion for CP-S.1 power supplies range.

Both designed for a huge variety of applications they perfectly fit thanks to a series of common features. Their frontal top wiring position and thin width fits perfectly into any enclosure. Plus, both devices feature the lowest power loss on the market and the same derating behavior, allowing an unparalleled integration.



Global availability

- Certified product
- Reduced number of SKUs for a better portfolio management



Flexible

- Quickest expandability with jumper connection
- Adjustable current rating from 0.5 to 12 A



Perfect fit

- Built with a formfactor that allows a flawless integration with most ABB devices



One stop shop

- Comprehensive range that covers practically all application demands
- No need to look for different suppliers



ABB Electronic Protection Devices are the best solution to ensure the control of distributed power in every OEM, for an increased productivity and a minimized downtime in case of fault or overloads.



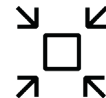
Continuous operation

- 'OUTPUT OK' alarm relay contact to initiate counter-measures
- 'L-' terminal to prevent ground fault
- Power reserve functionality



Energy efficient

- Reduced operating cost due to 'wear and tear' of other devices
- High efficiency up to 94% and minimized losses



Space saving

- Very compact design to reduce required space in cabinets
- Durable metal housing
- Complete 24 VDC offering not only for OEM machine building segment



—

new.abb.com/low-voltage

Note:
We reserve the right to make technical changes or modify the contents of this document without prior notification. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in part – is forbidden without prior written consent of ABB.

© Copyright 2022 ABB. All rights reserved.