

# **Circuit breakers and power relays for DC 48 V on-board electrical systems**



# Circuit breakers and power relays for DC 48 V on-board electrical systems

The rising number of electrical loads will have conventional on-board electrical systems soon reach their limits. Alternatively, modern DC 48 V systems allow substantial weight savings by using

smaller cable cross sections. Suitable for this equipment, E-T-A offers a wide range of circuit breakers and power relays for DC 48 V on-board electrical systems in passenger cars and utility vehicles.

#### Application examples:

- Air conditioning compressors
- Electrical compressors
- Heating systems
- Pumps

## Circuit breakers for trucks, buses, special vehicles, agricultural vehicles and construction machinery, passenger cars



**1170 automotive circuit breaker**  
DC 48 V, 3 ... 25 A

Snap-action mechanism and trip-free mechanism enable the powerful **1170** thermal automotive circuit breaker to offer the best possible protection of on-board electrical systems for voltage ratings up to DC 48 V. In addition, the **1170** features shock and vibration values unrivalled in its league.

#### Your benefits

- Reduces downtimes
- Allows immediate reset
- Replaces standard automotive fuses

## High performance circuit breakers for special vehicles and construction machinery



**Type 4130**  
DC 50 V, 20 ... 80 A



**Type 410**  
DC 110 V, 10 ... 125 A



**Type 8340**  
DC 80 V, 1 ... 125 A



**Type 8345**  
DC 80 V, 1 ... 125 A

Superior quality, robust design and an extremely high rupture capacity make our high performance circuit breakers suitable for use under harshest environmental conditions.

#### Your benefits

- Robust design
- Maximum reliability
- No maintenance required

## Power relays for trucks, buses, special vehicles, agricultural vehicles and construction machinery



**Type MPR10**  
DC 48 V, 300 A



**Type EPR10**  
DC 48 V, 160 A

E-T-A's **MPR10** mechanical power relay features water and dust-proofness to IP6K9K and extremely high shock and vibration values. The **EPR10** electronic power relay is optimally suitable for applications which have to be switched frequently. Both devices are available as a custom designed DC 48 V version upon request.

#### Your benefits

- Reduced CO<sub>2</sub> emission
- Extremely long life span
- Low energy consumption



ENGINEERING TECHNOLOGY

E-T-A Elektrotechnische Apparate GmbH  
Industriestraße 2-8 · 90518 ALTENDORF  
GERMANY

Phone: +49 9187 10-0 · Fax: +49 9187 10-397  
E-Mail: info@e-t-a.de · www.e-t-a.de