



MONOSTABLE, BISTABLE, INTELLIGENT

Power relays for professional use

TECHNICAL INFORMATION

MPR20, MPR10, HPR10 power relays



The **MPR20, MPR10 and HPR10** power relays are innovative products designed for switching high current loads and for battery management. They can be installed in both 12V, 24V and 48V on-board electrical systems. Due to their compact and extremely robust enclosures and versatile mounting options, they are ideal for demanding applications in utility vehicles.

The **MPR20** is the most energy-efficient monostable power relay. The reduction of the holding power and the pull-in power allows direct connection to the controller and provides additional cost and environmental advantages.

The **MPR10** is the lightest bistable high current relay. Materials of superior quality and a specially compact and light-weight design allow extremely flexible use in utility vehicles.

The **HPR10** is the most intelligent power relay. An active electronic control unit for signal conditioning completes the benefits. Other functions such as level or pulse control, voltage monitoring etc. can be configured individually as per customer's request. Please visit our online relay configurator: www.e-t-a.de/relay_configurator

TYPICAL APPLICATIONS

- Buses, trucks, construction machinery, agricultural vehicles and forestry equipment as well as specialty vehicles
- Air-conditioning, compressors, battery management, exhaust after-treatment SCRT

STANDARDS

- ISO 16750
- IATF 16949
- ECE R118
- ECE R10

YOUR BENEFITS

- **Reduced power consumption and CO2 emission values** due to minimal energy requirement
- **Flexible installation for demanding applications** due to light, compact, robust and water- and dust-proof design (IP67, IP6k9k)
- **Maximum endurance and permanent availability** due to wear-free switching operations

Technical data			
Relay Type	MPR20 monostable	MPR10 bistable	HPR10 intelligent
Voltage ratings	DC 12V / 24V / 48V		
Current ratings	100 / 200 / 300A		
Ampacity	$2 \times I_N 20s / 8 \times I_N 1s$		
Typical life (mechanical)	> 1.000.000 cycles	> 500.000 cycles	> 500.000 cycles
Typical life (ohmic 12V/300A)	> 400.000 cycles	> 400.000 cycles	> 400.000 cycles
Temperature range	-40 °C...+85 °C		
Pull-in current 12 V / 24 V	2,4A	4,5A / 2,3A	4,5A / 2,3A
Release current 12 V / 24 V	–	4,5A / 2,5A	4,5A / 2,5A
Holding current 12 V / 24 V	0,2A / 0,1A	0A	1,5 mA / 3 mA

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