

Battery Disconnect Relay

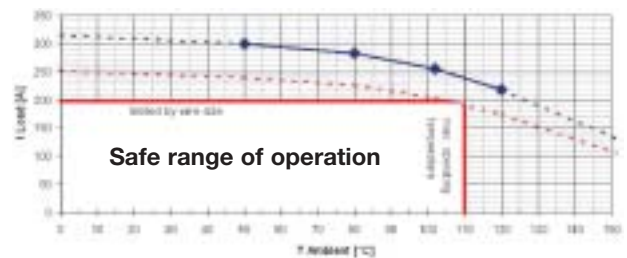
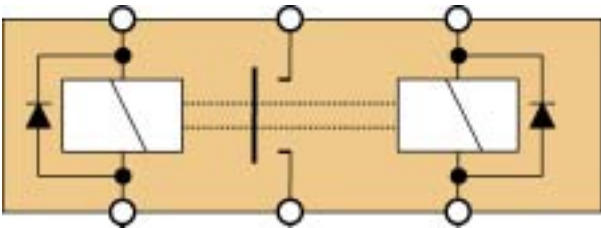


Application: Disconnection of the vehicle electric system from the battery; as a component of vehicle electric system control units and master-fuse devices

- Battery charge conservation by quiescent current avoidance: Switching-off of large sections of the vehicle electric system when the vehicle is at a standstill for long periods
- Voltage isolation of the vehicle electrical system, or sections thereof, for maintenance work
- Safety switch-off for fire prevention in case of accident or in case of cable defects

Technical concept

- Mechanical bistable switching unit: Pulse at the switch-on magnet closes the contact bridge, this is locked mechanically; pulse at the switch-off magnet opens the contact bridge.
- Double-break contact bridge with additional pair of pre-travel contacts
- All load circuit components have a large cross-section (>30 mm²) for high continuous current-carrying capacity
- 6-pin connector: 2 x 2 coil connections, 2 load contacts as diagnostic connections
- 1 recovery diode per coil (optional)



Technical data

- Operating temperature from -40°C bis +125°C
- Continuous load 200 A at 105°C, 150 A rated current (150 A fuse value)
- 20 to 50 g vibration resistance and shock resistance
- 500 μΩ switch-on resistance
- 3 Ω coil resistance, 100–200 ms pulse
- 6 V function voltage on/off @ 25°C
- <20 ms switching time, <2 ms bounce time @ 12 V
- 250 g mass
- 6-pin AMP Superseal 1.5 Series connector



Permissible screwing-on moment
9 ± 2 Nm

