The voltage monitor MK83-U24 is designed to monitor 24 VDC supply voltages for overvoltage, undervoltage and ripple.

Typical applications are:

- fuse failures in three-phase systems
- voltage monitoring of battery charging systems
- fault indication for power supplies
- overload control

This voltage monitor features two relay outputs (1 NO and 1 NC contact).

The switching status is indicated by a green LED: it illuminates, if the voltage levels are correct; it turns off, if there is an error condition.
### Power Supplies and Power Monitors

**Type**
- MK83-U24

**Ident-No.**
- 75 220

**Operating Voltage** $U_B$
- 16.8...31.2 VDC

**Ripple** $W_{PP}$
- $\leq 20 \%$

**Power/current consumption**
- $\leq 30 \text{ mA}$

**Output Circuits**
- 2 relay outputs (1 NC contact, 1 NO contact)
- 30 VAC/36 VDC
- 2 A
- 60 VA/60 W

**Switching points**
- **Undervoltage**
  - Switch-off threshold: 19.68 V
  - Switch-on threshold: 20.40 V
- **Overvoltage**
  - Switch-off threshold: 28.32 V
  - Switch-on threshold: 27.60 V

**Ripple** $W_{PP}$
- $\leq 15 \%$

**Thermal drift of switching thresholds**
- $\leq 0.03 \%/K$

**LED Indication**
- Switching status: green

**Housing**
- 8-pole, 18 mm wide, Polycarbonate/ABS, flammability class V-0 per UL 94
- Snap-on clamps for top-hat rail (DIN 50022)
- Screw terminals for panel mounting
- Via flat terminals with self-lifting pressure plates
- Connection profile
  - $\leq 2 \times 2.5 \text{ mm}^2$ or $2 \times 1.5 \text{ mm}^2$
  - With wire sleeves
- Degree of protection (IEC 60529/EN 60529): IP20
- Operating temperature: -25...+60 °C