

Description

The three-phase voltage monitor AD-UW 60 GT monitors all three phases in the three-phase system for overvoltage, undervoltage, phase sequence and phase symmetry. If one or more faults occur, the quiescent current relay will fail. The state of the three phases and the error state is indicated by LEDs. The device is powered by the measuring voltage, therefore the wiring of a separate supply is eliminated. The switching points for overvoltage, undervoltage and switching delay can be set quickly via separate trimmers.

Application

AC motors, Overhead cranes, Trolleys, Goods lifts, Conveyor belts

**Specific characteristics**

- Setting the limits for undervoltage, overvoltage and switching delay via the front panel
- Check all relevant sizes for a wide variety of purposes
- Display of the phase voltages by green LEDs
- Display of the relay by orange LED
- No separate power supply necessary therefore less wiring effort
- Relay is energized in the good range

Business data

Order number
AD-UW 60 GT

Technical specifications**Voltage inputs/supply**

Nominal voltage	230 V AC, 50 Hz
Connection method	3 phases + neutral conductor
Auxiliary voltage	all three phases
Measurement and supply range	150 ... 253 V AC
Max. power consumption	4 VA

Setting ranges

Undervoltage	170 ... 229 V AC
Overvoltage	231 ... 250 V AC
Delay	0,1 ... 10 s

Response values

Asymmetry	10 % of nominal voltage
Hysteresis	10 % overvoltage - undervoltage
Phase loss	~ 10 % der Nennspannung

Timing

Start delay	1 s
Sampling period	50 ms

Notifications

L1, L2, L3 (green)	on: Voltage OK Blinking: Error, Delay is running Off: Error
Relais (orange)	On: Relay tightened, everything OK Blinking: Relay dropped, error

Relay output

Maximum switching load AC	250 V, 2 A
Maximum switching load DC	50 V, 2 A
Contact construction	potential-free changeover

Galvanic isolation, test voltages

Mains side to relay output	4 kV, 50 Hz (1 min.)
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Housing

Terminals, wire cross section	2,5 mm ² flex wire / 4 mm ² one wire
Type of protection	IP 20
Connection method	screw clamp
Bolting torque terminals	0,6 Nm
Weight	~ 150 g
Manner of fastening	35 mm DIN rail 35mm

Environmental conditions

Ambient temperature	-10 ... 50 °C
Storage and transport	-10 ... 70 °C (no condensation)

Electrical safety requirements

Product family standard	EN 61010-1
Overvoltage category	III
Pollution degree	2
Safety measurement	EN 61010-2-030
Measurement category	CAT III

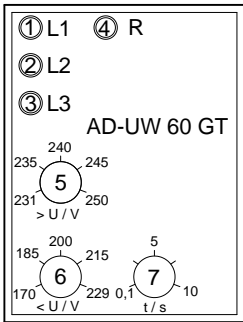
EMC

Product family standard	EN 61326-1 ¹⁾
Emitted interference	EN 55011, CISPR11 Cl. A ²⁾ , Gr. 1

¹⁾ During checking, slight signal deviations are possible.

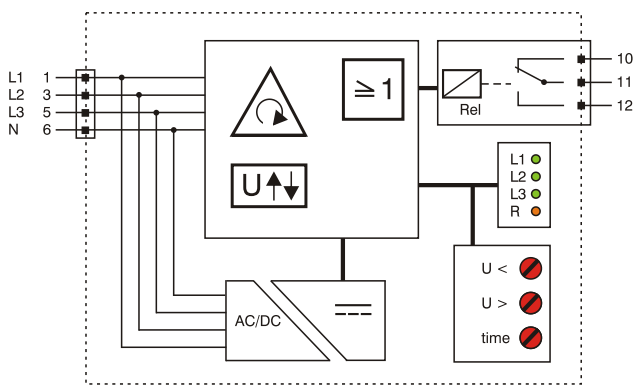
²⁾ Warning: This device is not intended to be used in residential areas and can not ensure adequate protection of radio communications in such environments

Display and operating elements

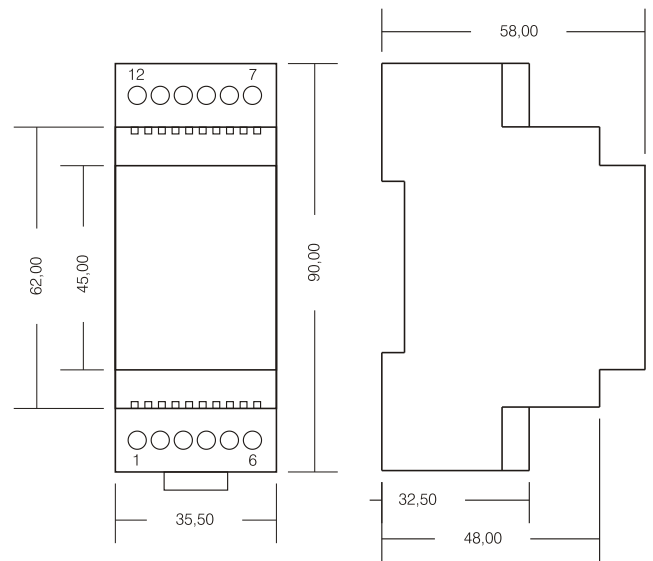


- 1 Status voltage in L1
- 2 Status voltage in L2
- 3 Status voltage in L3
- 4 Relay state
- 5 Setting for overvoltage
- 6 Setting for undervoltage
- 7 Setting for switching delay

Block and wiring diagram



Dimensions



Diagrams

