

Application

For the current monitoring of alternating voltage systems.

Description

The **SIM current transducer** uses the terminals A1 and A2 for connection to 24V AC/DC and 230V AC (please specify). The green LED indicates the connection of the power supply, which must be continuously connected to the transducer.

Function

The SIM transducer converts a flowing alternating current connected to the terminals B1 and B2 into an independent current or voltage signal. The desired output signal can be adjusted with the DIP switches located on the relay's front panel. The current or voltage signals are connected to different terminals (I _{out} or U _{out}). The SIM has three-way isolation.

Options

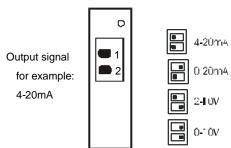
Other supply voltages available upon request.

Part number

013006	SIM	020mA AC	24V AC/DC
013007	SIM	0100mA AC	24V AC/DC
013008	SIM	0500mA AC	24V AC/DC
013009	SIM	01A AC	24V AC/DC
013010	SIM	05A AC	24V AC/DC
013030	SIM	020mA AC	230V AC
013031	SIM	0100mA AC	230V AC
013032	SIM	0500mA AC	230V AC
013033	SIM	01A AC	230V AC
013034	SIM	05A AC	230V AC

Isolation and Measuring transducers SIM - Current transducer for AC conversion 22.5mm housing

DIP switch adjustments



Approvals

Mounting

Snap-on mounting using a standard DIN rail EN 50022. The unit is designed to allow side-by-side mounting, with an ambient temperature of $< 60^{\circ}$ C.



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Technical data

Supply Supply voltage

Frequency range: Power consumption: Operating mode: Insulation voltage:

Measuring range

Measuring accuracy:

Overload capability: Insulation voltage:

Part number

24V AC/DC	230V AC
013006	013030
013007	013031
013008	013032
013009	013033
013010	013034

Output values

Voltage loss in measuring range: Output:

Ohmic resistance:

Insulation voltage:

Operation indicators Supply voltage:

General data Ambient temperature: Climate resistance: Mounting position: Vibration resistance: Test voltage: Isolation group: Protection class:

Connection terminals:

Connection cross section:

Finger touch proof:

Mounting:

Dimensions I x w x h:

Weight: 24V AC/DC version 230V AC version

上海悦中电气设备有限公司 上海恒通路360号一天下大厦24C TEL:021-62246890 FAX:021-52240873 Http://www.skjd.cn E-mail:shskjd@126.com

24V AC/DC -15 / +10% 230V AC -15 / +10% 0 / 50 ... 60Hz approx. 2VA continuous 24V -> 1kV 230V -> 3,75kV

or:

0.5% over the entire temperature and voltage range 10% continuous, 100% 1s 3,75kV

0...20mA AC 0...100mA AC 0...500mA AC 0...1A AC 0...5A AC

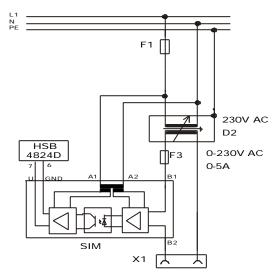
max. 150mV 0 (4)...20mA DC 0 (2)...10V DC current output 750Ω voltage output 2kΩ 3,75kV

LED, green

- 25 ... + 60°C VDE 0435T.2021 any VDE 0435T.2021 2.5kV VDE 0110 Group C 250 Terminals IP 20 Housing IP 40 Crosshead screws; M3.5 self opening Multi-strand wire with wire sleeves 2 x 2.5mm² single wire 2 x 2.5mm² VDE 0106T.100 and VBG4 Symmetrical DIN rail EN 50022 78mm x 22.5mm x 110mm

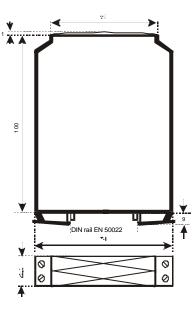
76g 150g

Example



The SIM converts the load current into a voltage signal. The load current is digitally displayed using the HSB4824D.

Dimensions



Connections

The terminal assignment for the connections is located on the front panel of the relay. **Reading the front panel from top to bottom**, the connections are in the following order:

Upper side	Right:	nc – nc – nc – nc
	Left:	B1 – A1 – I _{out} – U _{out}
Lower side	Right:	nc - nc - nc - nc
		B2 – A2 – nc – GND

