

# Current and Voltage Controls

## 1-Phase AC Over Current

### Type EIS

CARLO GAVAZZI



- 2-wire connection
- Self-powered
- 2 types of input: 2 - 20 AAC or 5 - 50 AAC
- Knob-adjustable set-point
- Output: NPN, normally open, 100 mA
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 22.5 mm small Euronorm housing

### Product Description

Small current transformer with adjustable set-point and with integrated output circuit. Self-powered and 2-wire connection for easy use.

12 mm hole for isolated current carrying wire makes it suitable for most applications. For mounting on DIN-rail or directly on surface by screws.

### Ordering Key **EIS NNO A 20A**

Housing	_____
Function	_____
Small E-line	_____
Output	_____
Type	_____
Input range	_____

### Type Selection

Input current	Type no.
2 - 20 AAC	<b>EIS NNO A 20A</b>
5 - 50 AAC	<b>EIS NNO A 50A</b>

### Output Specifications

Output	Transistor, NPN, NO
Output current	
Maximum load current	100 mA
Leakage current	≤ 100 μA
Max. voltage	40 VDC
Voltage drop (U <sub>d</sub> )	< 2.5 VDC

### Input Specifications

	EIS NNO A 20A	EIS NNO A 50A
Current range	2 - 20 AAC @ 50 Hz (1.6 - 16 AAC @ 60 Hz) (1.6 - 13 AAC @ 400 Hz)	5 - 50 AAC @ 50 Hz (4 - 40 AAC @ 60 Hz) (4 - 32 AAC @ 400 Hz)
Max. current (continuously)	40 AAC	100 AAC
Max. overload current (t = 30 s)	200 AAC	200 AAC

### General Specifications

EMC	Electromagnetic Compatibility	Environment		
	Immunity	acc. to IEC 801-2, level 3 acc. to IEC 801-3, level 3 acc. to IEC 801-4, level 3 acc. to IEC 801-5, level 3	Degree of protection	IP 20
			Pollution degree	3
		Operating temperature	-20 to +50°C (-4 to +122°F)	
Range accuracy	-0/+15% on max.	Weight	70 g	
Hysteresis (Differential travel)	7 - 13% of setpoint	Terminal capacity	2 x 1.5 mm <sup>2</sup> wires in each	
Frequency range	45 - 400 Hz	Dimensions	49 x 22.5 x 56 mm (LxWxH)	
Temperature variation	±0.20%/°C of setpoint			
Reaction time	τ < 150 ms worst case reaction time may be up to 5 x τ			