

Monitoring Relays 1-Phase AC Over Current Type DIA53

CARLO GAVAZZI



- 2-wire connection
- Self-powered
- Input ranges: 2 - 20 AAC, 5 - 50 AAC or 10 - 100 AAC
- Knob-adjustable set-point
- Output: Normally open, 100 mA
- LED indication for output ON
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 17.5 mm DIN-rail housing (DIN 43880)

Product Description

Small current monitoring relay with built-in current transformer with adjustable set-point and integrated solid state output. Self-powered and 2-wire connection for easy use.

??? mm hole for insulated

current carrying wire makes it suitable for most applications. For mounting on DIN-rail.

17.5 mm wide housing suitable both for back and front panel mounting.

Ordering Key

DIA 53 S 724 20A

Housing _____
Function _____
Type _____
Item number _____
Output _____
Power supply _____
Input range _____

Type Selection

Input current	Type no.
2 - 20 AAC	DIA53 S724 20A
5 - 50 AAC	DIA53 S724 50A
10 - 200 AAC	DIA53 S724 100A

Output Specifications

Output	NPN-PNP open collector, NO
Output current Maximum load current	100 mA
Leakage current	≤ 100 µA
Max. voltage	40 VDC
Voltage drop (U _d)	< 2.5 VDC

Input Specifications

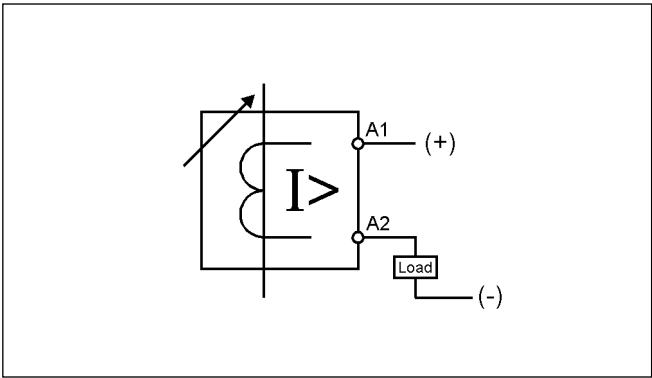
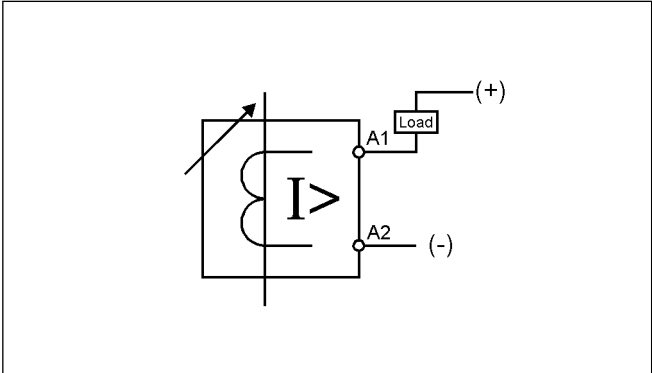
	DIA53 S 724 20A	DIA53 S 724 50A	DIA53 S 724 100A
Current range	2 - 20 AAC @ 50 Hz	5 - 50 AAC @ 50 Hz	10 - 100 AAC @ 50 Hz
Max. current (continuously)	40 AAC	100 AAC	150 AAC
Max. overload current (t = 30 s)	200 AAC	200 AAC	200 AAC

General Specifications

EMC Immunity Emission	Electromagnetic Compatibility According to EN 61000-6-2 According to EN 50081-1	Environment Degree of protection Pollution degree Operating temperature	IP 20 3 -20 to +60°C
Repeatability	0.5 %	Weight	80 g
Hysteresis (Differential travel)	7 - 13% of setpoint	Terminal capacity	2 x 1.5 mm ² wires in each
Frequency range	45 - 400 Hz	Dimensions	49 x 22.5 x 56 mm (LxWxH)
Temperature variation	±0.20%/°C of setpoint	Approval	UL
Reaction time	τ < 150 ms worst case reaction time may be up to 5 x τ	CE Marking	Yes



Wiring Diagrams



Operation Diagram

