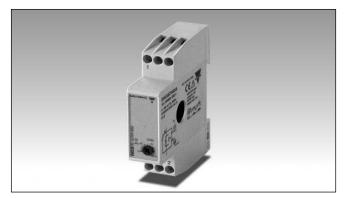
Monitoring Relays 1-Phase AC Over Current Type DIA53





- 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.

12 mm hole for insulated current carrying wire makes it suitable for most applications. For mounting on DINrail. 17.5 mm wide housing suitable both for back and front panel mounting.

Ordering Key DIA 53 S 724 20A F Housing Function Type Item number Output Power supply Input range

Type Selection

Input current	Reaction time	Type no.
2 - 20 AAC	Standard	DIA53 S724 20A
5 - 50 AAC	Standard	DIA53 S724 50A
10 - 100 AAC	Standard	DIA53 S724 100A
2 - 20 AAC	Fast	DIA53 S724 20A F
5 - 50 AAC	Fast	DIA53 S724 50A F
10 - 100 AAC	Fast	DIA53 S724 100A F

Output Specifications

Version

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

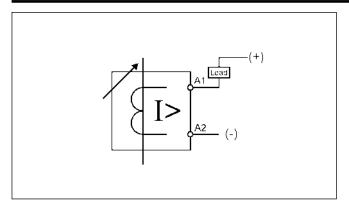
General Specifications

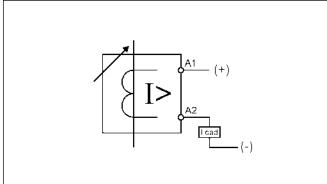
Reaction time	
	. 200
DIA53	< 300 ms
	(input signal variation from
	-20% to +20% of set value)
DIA53F	< 50 ms
	(input signal variation from
	-20% to +20% of set value)
Repeatability	0.5 %
Hysteresis	
Differential travel)	7 - 13% of setpoint
Frequency range	45 - 400 Hz
Temperature variation	±0.20%/°C of setpoint
Environment	
Degree of protection	IP 20
Pollution degree	3
Operating temperature	-20 to +60°C

Weight	80 g
Screw terminals	
Tightening torque	Max. 0.5 Nm acc. to IEC 60947
Housing	
Dimensions	17.5 x 81 x 67.2 mm
Material	PA66 or Noryl
Product standard	EN 60255-6
Approval	UL, CSA
CE Marking	L.V. Directive 2006/95/EC EMC Directive 2004/108/EC
EMC	
Immunity	According to EN 60255-26
-	According to EN 61000-6-2
Emissions	According to EN 60255-26
	According to EN 61000-6-3

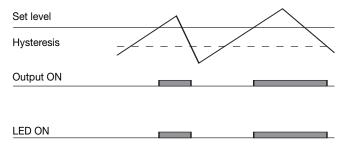


Wiring Diagrams





Operation Diagram



Dimensions

