## Monitoring Relays 1-Phase AC Over Current Type DIA53



### **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 DIN-rail. 17.5 mm wide housing suitable both for back and front panel mounting.

## **Type Selection**

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

- 2-wire connection
- Self-powered
- Input ranges: 2 20 AAC, 5 50 AAC or 10 100 AAC

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- 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)

# Ordering Key DIA 53 S 724 20A F



### **Output Specifications**

NPN-PNP open collector, NO	
100 mA	
≤ 100 µA	
40 VDC	
< 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		Weight	80 g
DIA53	< 300 ms (input signal variation from -20% to +20% of set value)	Screw terminals Tightening torque	Max. 0.5 Nm acc. to IEC 60947
DIA53F	< 50 ms (input signal variation from -20% to +20% of set value)	<b>Housing</b> Dimensions Material	17.5 x 81 x 67.2 mm PA66 or Noryl
Repeatability	0.5 %	Product standard	EN 60255-6
Hysteresis	7 100/ of optimist	Approval	UL, CSA
(Differential travel)	7 - 13% of setpoint	CE Marking	L.V. Directive 2006/95/EC
Frequency range	45 - 400 Hz	C C	EMC Directive 2004/108/EC
Temperature variation	±0.20%/°C of setpoint	EMC	
Environment Degree of protection Pollution degree Operating temperature	IP 20 3 -20 to +60°C	Immunity Emissions	According to EN 60255-26 According to EN 61000-6-2 According to EN 60255-26 According to EN 61000-6-3



## Wiring Diagrams



## **Operation Diagram**



### Dimensions

