

Short Circuit Relay KZR-8Sxx for 5A – Transformer / 1A – Transformer



The KZR-8Sxx* Short - Circuit Relay monitors the current in three-phase networks. It is equipped with 2 limit value relays, whose response values can be set independently of each other, ranging from 0.2 A to 20 A for the 5A variant and from 0.04 A to 4 A for the 1A variant. Separate delay times and switching behaviours are adjustable for each limit value. For the current measurement, which is done via transformers, current transformers, suitable for the adapting to the measurement circuits, are to be provided. The auxiliary voltage and release input (terminals 1 - 3) are galvanically separated from the measurement circuits. The current measurement circuits (terminals 10 - 15) are galvanically separated from each other and from the other electronics.

The protective device is available in the variants KZR-8S, KZR-8SA¹, KZR-8SF² and KZR-8SFA^{1/2} (¹ with analogue output - no galvanic isolation; ² extended protection against vibration and moisture).

Special Feature: The threshold relay 1 can operate as a current-dependent delayed overload relay. This behaviour is modelled on the thermal / temporal overload triggering of motor circuit breakers. The KZR-8Sxx meets the VDE 0108 requirement with 110 % nominal current within a 12-hour interval. This current-dependent overload trigger can be switched off, resp. combined.

Use the parameterisation-software, which in its latest version is available as download on the manufacturer's homepage www.koralewski.de to adjust the settings of the device.

* The designation KZR-8Sxx in this document is substitutionally used for all available variants of the short circuit relay KZR-8S.

Technical Data KZR-8S

Auxiliary Voltage	: 9 ... 34V DC
Power Consumpt.	: ca. 3 VA
Delay Time	: adjustable: 0,1 ... 100 s systematic : 50 ms + tx +/- 50 ms for t>0
Burden	: < 0,01 Ohm
Relay Outputs	: 230 V / 50 Hz / 2 A
Ambient Temperature	: -20 ... +55 °C
Meas. Error	: nominal frequency : < 1 %
Measuring Inputs	: 10*I _{Nenn} 1 ms
Overload Resist.	: 4*I _{Nenn} constantly
Type of Protection	: IP20
Dimensions W / H / D	: 100 x 75 x 110 mm

additionally for KZR-8SF / SFA

Storage Temp.	: -30 ... +80 °C
Operating Temp.	: -20 ... +70 °C (short-term -30 ... +80 °C)
Humidity	: 100%
Altitude	: 1200 m above MSL
Shock	: direction Y : 8 g for train- / plain-transport direction XZ : 3 g
Vibration	: 1,0 g

additionally for KZR-8SA / SFA

Analogue Output:	12 Bit
Burden	: ≥ 1 kOhm
Internal Resolution	: better 0,5 %
Refresh Rate	: approx. 200/s
Output Voltage	: max. 10,7 V

Ordering Information:

KZR-8S / 5A / 12 - 24V	: E1453
KZR-8S / 1A / 12 - 24V	: E1454
KZR-8SA / 5A / 12 - 24V	: E1455
KZR-8SA / 1A / 12 - 24V	: E1456
KZR-8SF / 5A / 12 - 24V	: E1457
KZR-8SFA / 5A / 12 - 24V:	E1449

Accessory:

USB cable (USB-A : B mini):	KC0215
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