

# MCR-SL-S- 16-SP- 24 - Current monitoring



2864464

<https://www.phoenixcontact.com/us/products/2864464>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

MCR current protector, for sinusoidal alternating currents 0 ... 16 A AC/ 1 changeover contact



## Your advantages

- Adjustable switching hysteresis
- Relay changeover contact output
- 3-way isolation
- Adjustable operating/closed circuit current behavior
- Switching point can be freely selected in the measuring range of 0 ... 16 A AC

## Commercial data

Item number	2864464
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CK4A21
Catalog page	Page 237 (C-5-2019)
GTIN	4017918904456
Weight per piece (including packing)	159.8 g
Weight per piece (excluding packing)	139.2 g
Customs tariff number	85389091
Country of origin	DE

# MCR-SL-S- 16-SP- 24 - Current monitoring



2864464

<https://www.phoenixcontact.com/us/products/2864464>

## Technical data

### Notes

#### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
----------	---

### Product properties

Product type	Current transducer
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

### Electrical properties

Rated insulation voltage	300 V AC (to earth)
Total error	≤ 1.4 % (Temperature range)
Measuring category	III
Test voltage input/output	3.5 kV (50 Hz, 1 min.)
Test voltage input/power supply	3.5 kV (50 Hz, 1 min.)
Protective circuit	Surge protection; 33 V suppressor diode
Step response (10-90%)	40 ms
Maximum temperature coefficient	< 0.02 %/K

#### Supply

Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	< 30 mA

### Input data

#### Measurement:

Frequency measuring range	45 Hz ... 60 Hz
---------------------------	-----------------

#### Measurement

Input current range	0 A AC ... 16 A AC (Permitted continuous overload: 120%)
Overload capacity	2 x I <sub>N</sub> (continuous)
Nominal frequency f <sub>N</sub>	50 Hz
	60 Hz
Frequency measuring range	45 Hz ... 65 Hz
Curve type	Sine

### Output data

#### Switching: Relay

Contact switching type	1 changeover contact
Contact material	AgSnO, hard gold-plated

# MCR-SL-S- 16-SP- 24 - Current monitoring



2864464

<https://www.phoenixcontact.com/us/products/2864464>

Maximum switching voltage	30 V AC
	36 V DC
	250 V AC (when the gold layer is destroyed)
Limiting continuous current	50 mA (for gold layer, 30 V AC/ 36 V DC)
	2 A (in case of a destroyed gold layer, 250 V AC)
Setting range of the response delay	typ. 0.1 s ... 10 s (Adjustable using a potentiometer)

## Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 14
Connection method	Through connection

## Dimensions

### Item dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

### Circular conductor

Diameter	4.2 mm
----------	--------

## Material specifications

Color	green (RAL 6021)
Housing material	Polyamide PA non-reinforced

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C (non-condensing)
Altitude	≤ 2000 m
Permissible humidity (operation)	10 % ... 95 % (non-condensing)

## Approvals

### CE

Certificate	CE-compliant
-------------	--------------

## EMC data

Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal

# MCR-SL-S- 16-SP- 24 - Current monitoring



2864464

<https://www.phoenixcontact.com/us/products/2864464>

	deviations.
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4

## Standards and regulations

Standards/regulations	IEC 61010-2-030
-----------------------	-----------------

## Mounting

Mounting type	DIN rail mounting
Mounting position	any

# MCR-SL-S- 16-SP- 24 - Current monitoring



2864464

<https://www.phoenixcontact.com/us/products/2864464>

## Classifications

### ECLASS

ECLASS-11.0	27210123
ECLASS-12.0	27210123
ECLASS-13.0	27210123

### ETIM

ETIM 9.0	EC002475
----------	----------

### UNSPSC

UNSPSC 21.0	39121000
-------------	----------

# MCR-SL-S- 16-SP- 24 - Current monitoring



2864464  
<https://www.phoenixcontact.com/us/products/2864464>

## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)