

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



2864464

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

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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	CMMA21
GTIN	4017918904456
Weight per piece (including packing)	160 g
Weight per piece (excluding packing)	139.2 g
Customs tariff number	85389091
Country of origin	DE

## Technical data

### Notes

#### Utilization restriction

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

Product type	Current measuring transducer
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#### 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
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#### 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

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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
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## 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
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## EMC data

Electromagnetic compatibility	Conformance with EMC directive
Noise immunity	EN 61000-6-2

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Note	When being exposed to interference, there may be minimal deviations.
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## Noise emission

Standards/regulations	EN 61000-6-4
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## Standards and regulations

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

Mounting type	DIN rail mounting
Mounting position	any

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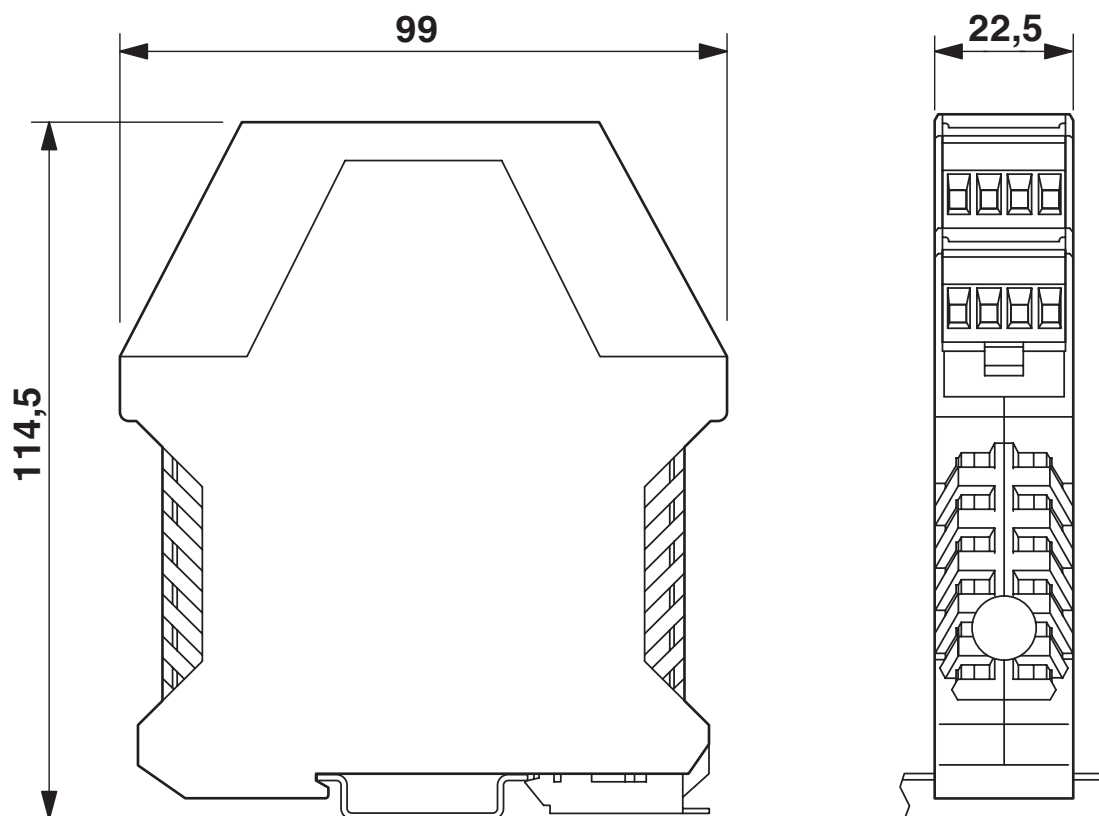
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## Drawings

Dimensional drawing



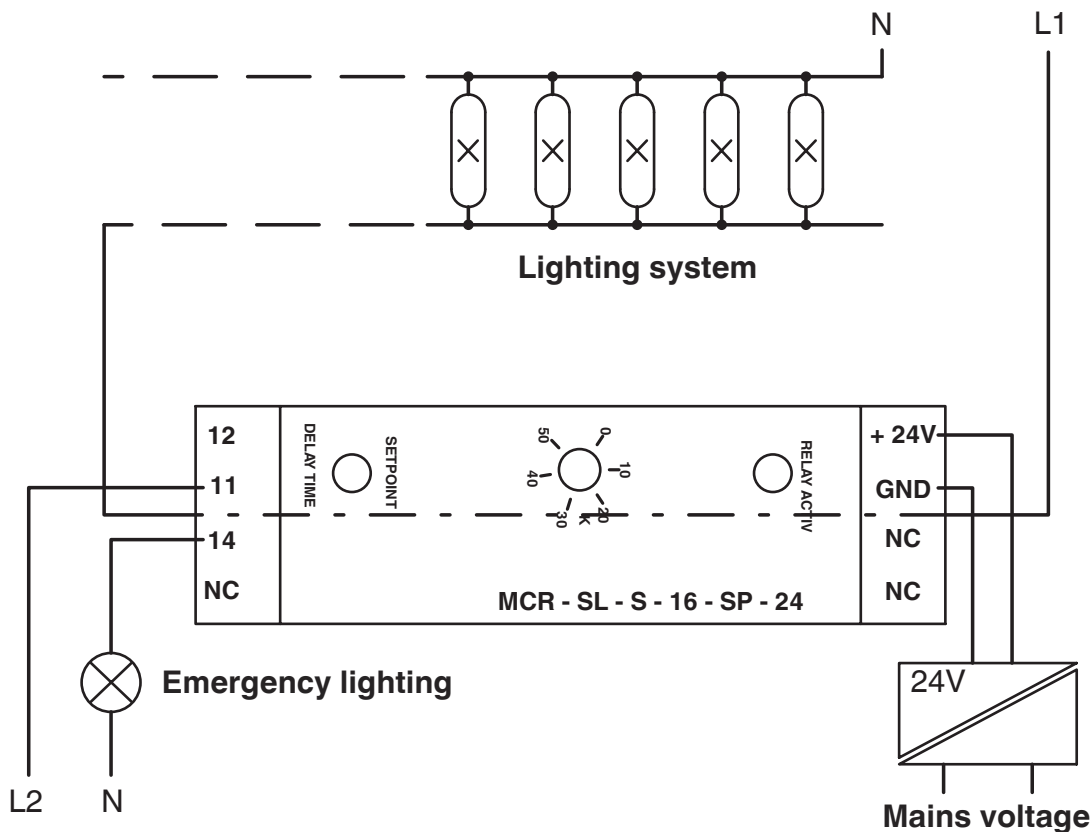
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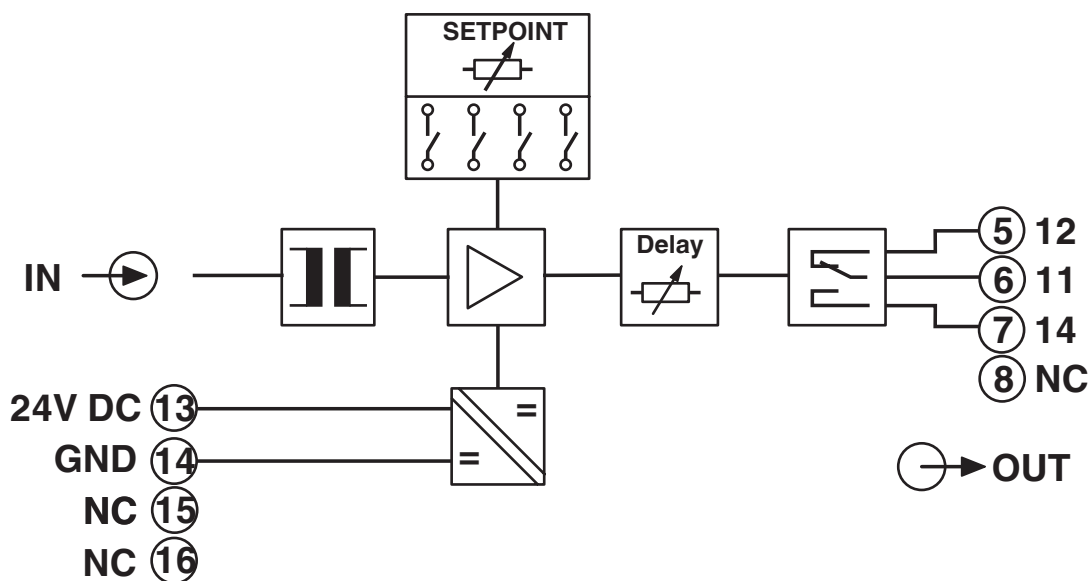
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Application drawing



Lighting system with emergency lighting

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2864464>



**cUL Recognized**  
Approval ID: E238705



**UL Recognized**  
Approval ID: E238705



**EAC**  
Approval ID: RU\*DE.\*08.B.01852-19

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## Classifications

### ECLASS

ECLASS-13.0	27210123
ECLASS-15.0	27210123

### ETIM

ETIM 10.0	EC002475
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### UNSPSC

UNSPSC 21.0	39121000
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	612d9570-bbc2-4415-9ebc-e5214cd59614

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