

# MACX-MR-V-600 - Monitoring relay

1336426

<https://www.phoenixcontact.com/us/products/1336426>



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1-phase voltage monitoring relay, 24 V AC/DC ... 240 V AC/DC wide range power supply, with adjustable threshold values, response delay, and the functions can be selected by configuration.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1336426       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C443          |
| Product key                          | CK4711        |
| GTIN                                 | 4063151636296 |
| Weight per piece (including packing) | 207.5 g       |
| Weight per piece (excluding packing) | 195 g         |
| Customs tariff number                | 85364900      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                |                              |
|----------------|------------------------------|
| Product type   | Voltage monitoring relay     |
| Operating mode | Closed circuit or wire break |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 01 |
|------------------|----|

### Insulation characteristics: Railway standard

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree     | 3   |

### Electrical properties

|                                                 |                                                         |
|-------------------------------------------------|---------------------------------------------------------|
| Rated impulse withstand voltage                 | 6 kV                                                    |
| Service life electrical                         | approx. $1 \times 10^5$ cycles, resistive load 2000 V A |
| Maximum power dissipation for nominal condition | 15 W                                                    |
| Mains type                                      | 1-phase                                                 |

### Railway standard

|                          |       |
|--------------------------|-------|
| Rated insulation voltage | 600 V |
|--------------------------|-------|

### Electrical isolation

|                      |       |
|----------------------|-------|
| Electrical isolation | 300 V |
|----------------------|-------|

### Supply

|                           |                                      |
|---------------------------|--------------------------------------|
| Supply voltage range      | 24 V AC ... 240 V AC -15 % ... +10 % |
|                           | 24 V DC ... 240 V DC -25 % ... +30 % |
| Nominal power consumption | 15 VA (1.5 W)                        |

### Input data

|                                  |                                  |
|----------------------------------|----------------------------------|
| Input name                       | Measuring input                  |
| Measured value                   | DC, AC sine (40 Hz ... 500 Hz)   |
| Input voltage range              | 0 V AC/DC ... 600 V AC/DC        |
| Frequency range                  | 48 Hz ... 400 Hz                 |
| Maximum temperature coefficient  | 0.05 %/K                         |
| Setting range for response delay | 0 s ... 99.9 s                   |
| Function                         | Undervoltage                     |
|                                  | Overvoltage                      |
|                                  | Window                           |
| Basic accuracy                   | 1 % (>50V, $\pm 0.5V$ (0...50V)) |
| Repeat accuracy                  | 0.5 %                            |
| Recovery time                    | 200 ms                           |

### Output data

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## Switching

|                                       |                                |
|---------------------------------------|--------------------------------|
| Contact switching type                | 2 floating changeover contacts |
| Maximum switching voltage             | 250 V AC                       |
| Interrupting rating (ohmic load) max. | 2000 VA (8 A/250 V AC)         |
| Output fuse                           | 8 A (fast-blow)                |

## Connection data

|                                  |                                         |
|----------------------------------|-----------------------------------------|
| Connection method                | Screw connection                        |
| Stripping length                 | 10 mm                                   |
| Conductor cross section rigid    | 0.2 mm² ... 2.5 mm²                     |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm²                     |
| Conductor cross section AWG      | 24 ... 14                               |
| Tightening torque                | 0.5 Nm ... 0.6 Nm (5 lb in ... 7 lb in) |

## Dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 109 mm  |
| Depth  | 114 mm  |

## Material specifications

|                                        |     |
|----------------------------------------|-----|
| Flammability rating according to UL 94 | V0  |
| Housing insulation material            | PBT |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                                     |
|-----------------------------------------|-----------------------------------------------------|
| Degree of protection                    | IP40 (Housing)<br>IP20 (Connection terminal blocks) |
| Ambient temperature (operation)         | -25 °C ... 70 °C                                    |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C                                    |
| Permissible humidity (operation)        | 10 % ... 95 %                                       |

## Approvals

### CE

|                |              |
|----------------|--------------|
| Identification | CE-compliant |
|----------------|--------------|

### UL, USA/Canada

|                |                       |
|----------------|-----------------------|
| Identification | UL/C-UL Listed UL 508 |
|----------------|-----------------------|

### CCC

|                |              |
|----------------|--------------|
| Identification | GB/T 14048.5 |
|----------------|--------------|

### Electronic devices in rail vehicles

|                                                         |     |
|---------------------------------------------------------|-----|
| Operating temperature class                             | OT4 |
| Class of extended operating temperature upon activation | ST2 |

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|                                                    |            |
|----------------------------------------------------|------------|
| Temperature change class                           | H1         |
| Interruption of the power supply/supply changeover | S2         |
|                                                    | S3/C1      |
|                                                    | C2         |
| Hazard levels                                      | HL1        |
|                                                    | HL2        |
|                                                    | HL3        |
| Protective coating                                 | PC2        |
| Shock (operation)                                  | Category 1 |
| Vibration (operation)                              | Class B    |

## EMC data

|                               |                                        |
|-------------------------------|----------------------------------------|
| Low Voltage Directive         | Conformance with Low Voltage Directive |
| Noise immunity                | EN 61000-6-2                           |
| Electromagnetic compatibility | Conformance with EMC directive         |
| Noise emission                | EN 61000-6-4                           |

## Standards and regulations

### Railway standard

|                      |                      |
|----------------------|----------------------|
| Standard designation | EN 50155, GB/T 25119 |
|----------------------|----------------------|

## Mounting

|                   |                                                        |
|-------------------|--------------------------------------------------------|
| Thread type       | ()                                                     |
| Assembly note     | on standard DIN rail NS 35 in accordance with EN 60715 |
| Mounting position | any                                                    |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27371801 |
| ECLASS-13.0 | 27371801 |
| ECLASS-12.0 | 27371801 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001438 |
|----------|----------|

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## Environmental product compliance

|                                         |                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS                                 |                                                                                                                                                                                                                                   |
| Fulfills EU RoHS substance requirements | Yes                                                                                                                                                                                                                               |
| Exemption                               | 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                                    | 3e4186dd-1ce5-4f8e-a792-88ec6d94341c                                                                                                                                                                                              |

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