

**EPAK-CMR-1PH-5-24V**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com



The analogue converters of the EPAK series are characterised by their compact design. The wide range of functions available with this series of analogue converters make them suitable for applications which do not require international approvals.

Properties:

- Safe isolation, conversion and monitoring of your analogue signals
- Configuration of the input and output parameters directly on the device via DIP switches
- No international approvals
- High interference resistance

**General ordering data**

|            |  |
|------------|--|
| Version    | Limit value monitoring, Input: AC/DC current, Input : 0...1 A AC, Output : Relay |
| Order No.  | <a href="#">7760054246</a>   |
| Type       | EPAK-CMR-1PH-5-24V   |
| GTIN (EAN) | 6944 169733789   |
| Qty.       | 1 items  |

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## Technical data

## Approvals

Approvals



ROHS Conform

## Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 89 mm   | Depth (inches)  | 3.5039 inch |
| Height     | 100 mm  | Height (inches) | 3.937 inch  |
| Width      | 17.5 mm | Width (inches)  | 0.689 inch  |
| Length     | 100 mm  | Length (inches) | 3.937 inch  |
| Net weight | 80 g    |                 |             |

## Temperatures

|                                   |                            |                       |                |
|-----------------------------------|----------------------------|-----------------------|----------------|
| Storage temperature               | -40 °C...85 °C             | Operating temperature | -40 °C...60 °C |
| Humidity at operating temperature | 0...95 % (no condensation) |                       |                |

## Probability of failure

SIL in compliance with IEC 61508 None

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 6a722fc5-2d22-41b4-9544-5b95e45a4b77 |

## Input

|                 |                                |              |               |
|-----------------|--------------------------------|--------------|---------------|
| Input frequency | 40...60 Hz                     | Input signal | AC (sine), DC |
| Input current   | 0.1...1A AC/DC, 0.5...5A AC/DC |              |               |

## Output

Number of outputs 1

## Output (digital)

|                            |                     |                            |   |
|----------------------------|---------------------|----------------------------|---|
| Continuous current         | 3 A                 | Number of digital outputs  | 1   |
| Max. switching voltage, AC | 250 V               | Max. switching voltage, DC | 30 V  |
| Type                       | Relay, 1 CO contact | Alarm function             | Surge current, Under-current, Alarm range: 10% ... 100% *IN, Hysteresis: 5%*IN (fixed), Alarm delay: 0...10 s |

## General data

|                   |        |                |             |
|-------------------|--------|----------------|-------------|
| Repeat accuracy   | 2 %*IN | Accuracy       | 5 %*IN      |
| Protection degree | IP20   | Supply voltage | 18...30 VDC |

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|                         |                                     |                           |                |
|-------------------------|-------------------------------------|---------------------------|----------------|
| Step response time      | <220 ms (10...90 %)                 | Power consumption         | <60 mA @24 VDC |
| Temperature coefficient | ≤ 250 ppm/K, ± 250 ppm/K, 350 ppm/K | Nominal power consumption | 1.5 VA         |
| Configuration           | DIP switch and potentiometer        | Operating altitude        | ≤ 2000 m       |

### Insulation coordination

|                           |                                   |                    |                                |
|---------------------------|-----------------------------------|--------------------|--------------------------------|
| Impulse withstand voltage | 4 kV (1.2/50 µs)                  | EMC standards      | IEC 61000-6 /-2, IEC 61000-6-4 |
| Surge voltage category    | II                                | Pollution severity | 2                              |
| Galvanic isolation        | between input/output/supply/relay | Insulation voltage | 2.2 kVAC, 1 min, 50 Hz         |
| Rated voltage             | 300 V ACrms                       |                    |                                |

### Connection data

|   |                     |   |                   |
|---|---------------------|---|-------------------|
| Type of connection                      | Screw connection    | Tightening torque, min.                 | 0.4 Nm            |
| Tightening torque, max.                 | 0.6 Nm              | Clamping range, rated connection        | 2 mm <sup>2</sup> |
| Clamping range, min.                    | 0.5 mm <sup>2</sup> | Clamping range, max.                    | 2 mm <sup>2</sup> |
| Wire connection cross section AWG, min. | AWG 30              | Wire connection cross section AWG, max. | AWG 14            |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002654    | ETIM 9.0    | EC002654    |
| ETIM 10.0   | EC002654    | ECLASS 14.0 | 27-21-01-22 |
| ECLASS 15.0 | 27-21-01-22 |             |             |

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**Drawings**

