

1136244

<https://www.phoenixcontact.com/us/products/1136244>

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PLC-INTERFACE for protection against interference currents or interference voltages on the control side. Consisting of basic terminal block with Push-in connection and plug-in miniature relay with power contact up to 2x 8 A, 2 changeover contacts, 120 V AC input voltage

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1136244       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | C461          |
| Product key                          | DK62BM        |
| GTIN                                 | 4063151070687 |
| Weight per piece (including packing) | 72.22 g       |
| Weight per piece (excluding packing) | 56.1 g        |
| Customs tariff number                | 85364900      |
| Country of origin                    | DE            |

## Technical data

### Notes

|                    |                                                                                                                                                                                   |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | The PLC-ATP partition plate must be installed for voltages greater than 250 V (L1, L2, L3) between identical terminal blocks on adjacent modules.                                 |
| Notes on operation | The PLC-ATP separating plate should be installed for safe isolation between adjacent modules                                                                                      |
| Notes on operation | The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built-in device without protection against direct contact. |
| Assembly note      | The PLC-ATP separating plate is required at the start and end of every PLC terminal strip.                                                                                        |

### Product properties

|                         |                                |
|-------------------------|--------------------------------|
| Product type            | Relay Module                   |
| Product family          | PLC-INTERFACE                  |
| Application             | Filter to prevent interference |
| Operating mode          | 100% operating factor          |
| Mechanical service life | approx. $3 \times 10^7$ cycles |

#### Insulation characteristics: Air clearances and creepage distances between the power circuits

|                      |                  |
|----------------------|------------------|
| Insulation           | Basic insulation |
| Overvoltage category | III              |
| Pollution degree     | 3                |

#### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 12.09.2025 |
|------------------------------|------------|

### Electrical properties

|                                                 |                                                      |
|-------------------------------------------------|------------------------------------------------------|
| Maximum power dissipation for nominal condition | 0.84 W                                               |
| Test voltage (Winding/contact)                  | 4 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact) |

#### Air clearances and creepage distances between the power circuits

|                          |                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------|
| Rated insulation voltage | 250 V AC                                                                                                      |
| Rated surge voltage      | 4 kV (Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths) |

### Input data

#### Coil side

|                                                      |                                  |
|------------------------------------------------------|----------------------------------|
| Nominal input voltage $U_N$                          | 120 V AC                         |
|                                                      | 110 V DC                         |
| Input voltage range                                  | 94.8 V AC ... 168 V AC (20 °C)   |
|                                                      | 93.5 V DC ... 168.3 V DC (20 °C) |
| Nominal voltage (plugged-in electromechanical relay) | 60 V DC                          |
| Mains frequency                                      | 50/60 Hz                         |

# PLC-RPT-120UC/21-21/SO46 - Relay module



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|                                |                  |
|--------------------------------|------------------|
| Drive and function             | monostable       |
| Drive (polarity)               | polarized        |
| Typical input current at $U_N$ | 8.5 mA (50 Hz)   |
|                                | 9.5 mA (60 Hz)   |
| Typical response time          | 8 ms             |
| Typical release time           | 15 ms            |
| Typical release voltage        | 45 V AC          |
| Protective circuit             | RC element       |
|                                | Bridge rectifier |
| Status display                 | LED (yellow)     |

## Output data

### Switching

|                                       |                       |
|---------------------------------------|-----------------------|
| Contact switching type                | 2 changeover contacts |
| Type of switch contact                | Single contact        |
| Contact material                      | AgNi                  |
| Maximum switching voltage             | 250 V AC/DC           |
| Minimum switching voltage             | 5 V (10 mA)           |
| Limiting continuous current           | 6 A                   |
| Maximum inrush current                | 15 A (300 ms)         |
| Min. switching current                | 10 mA (5 V)           |
| Interrupting rating (ohmic load) max. | 144 W (24 V DC)       |
|                                       | 96 W (48 V DC)        |
|                                       | 60 W (60 V DC)        |
|                                       | 44 W (110 V DC)       |
|                                       | 57 W (220 V DC)       |
|                                       | 1500 VA (250 V AC)    |
| Switching capacity min.               | 0.12 W                |

## Connection data

|                                  |                                                              |
|----------------------------------|--------------------------------------------------------------|
| Connection method                | Push-in connection                                           |
| Stripping length                 | 10 mm                                                        |
| Conductor cross-section rigid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                 |
| Conductor cross-section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                 |
|                                  | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule) |
|                                  | 2x 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule)  |
| Conductor cross-section AWG      | 26 ... 14                                                    |

## Dimensions

|        |       |
|--------|-------|
| Width  | 14 mm |
| Height | 80 mm |
| Depth  | 94 mm |

## Material specifications

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|       |                 |
|-------|-----------------|
| Color | gray (RAL 7042) |
|-------|-----------------|

## Environmental and real-life conditions

### Ambient conditions

|                                              |                              |
|----------------------------------------------|------------------------------|
| Degree of protection (Relay base)            | IP20 (Relay base)            |
| Degree of protection (Relay)                 | RT III (Relay)               |
| Degree of protection (Installation location) | IP54 (Installation location) |
| Ambient temperature (operation)              | -40 °C ... 55 °C             |
| Ambient temperature (storage/transport)      | -40 °C ... 85 °C             |
| Altitude                                     | ≤ 2000 m                     |

## Approvals

### CE

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

### UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

### Shipbuilding approval

|             |            |
|-------------|------------|
| Certificate | TAE0000196 |
|-------------|------------|

### Corrosive gas test

|                |                            |
|----------------|----------------------------|
| Identification | ISA-S71.04. G3 Harsh Group |
|                | EN 60068-2-60              |

### Shipbuilding data

|             |                                                                                         |
|-------------|-----------------------------------------------------------------------------------------|
| Temperature | D                                                                                       |
| Humidity    | A                                                                                       |
| Vibration   | B/C                                                                                     |
| EMC         | B                                                                                       |
| Enclosure   | Required protection according to the Rules shall be provided upon installation on board |

## EMC data

|                               |                                        |
|-------------------------------|----------------------------------------|
| Electromagnetic compatibility | Conformance with EMC directive         |
| Low Voltage Directive         | Conformance with Low Voltage Directive |

## Standards and regulations

### Air clearances and creepage distances between the power circuits

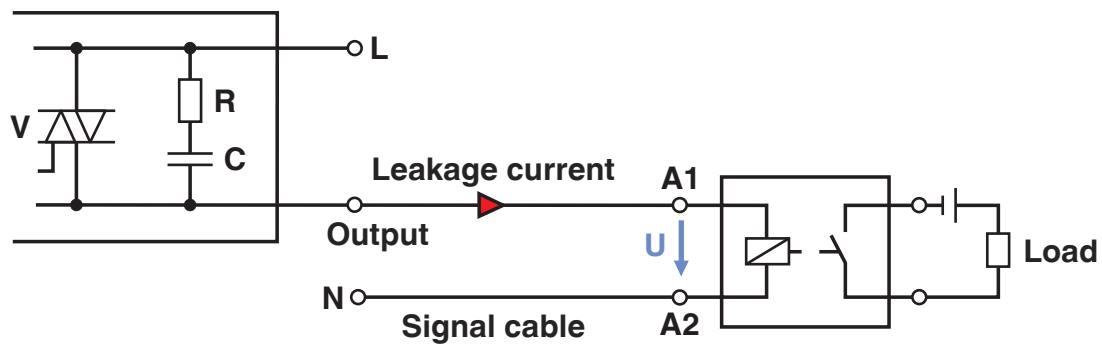
|                       |               |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|-----------------------|---------------|

## Mounting

|                   |                           |
|-------------------|---------------------------|
| Mounting type     | DIN rail mounting         |
| Assembly note     | in rows with zero spacing |
| Mounting position | any                       |

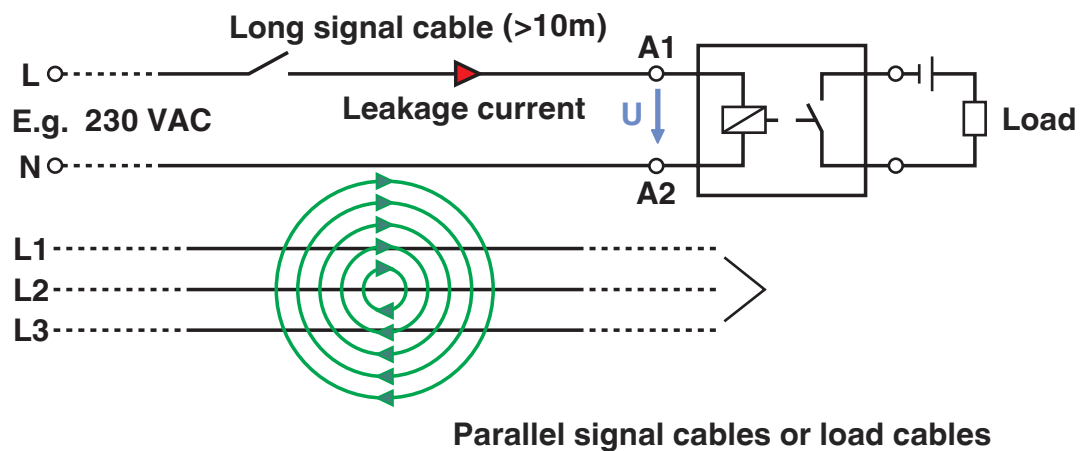
## Drawings

Application drawing

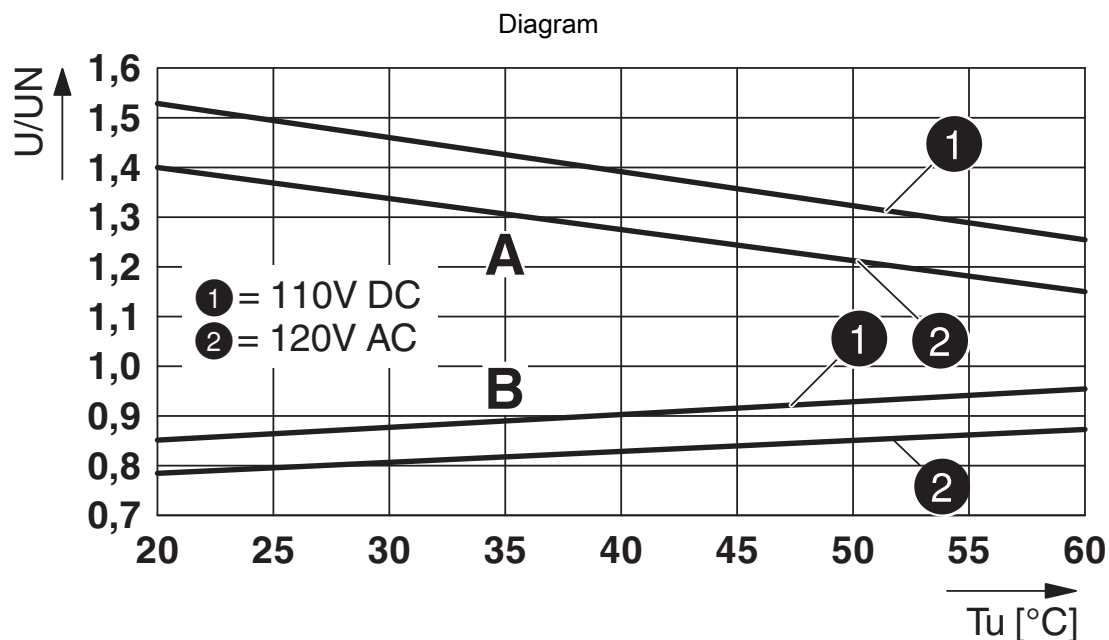


Occurrence of interference signals  
Scenario 1: controller - AC output card

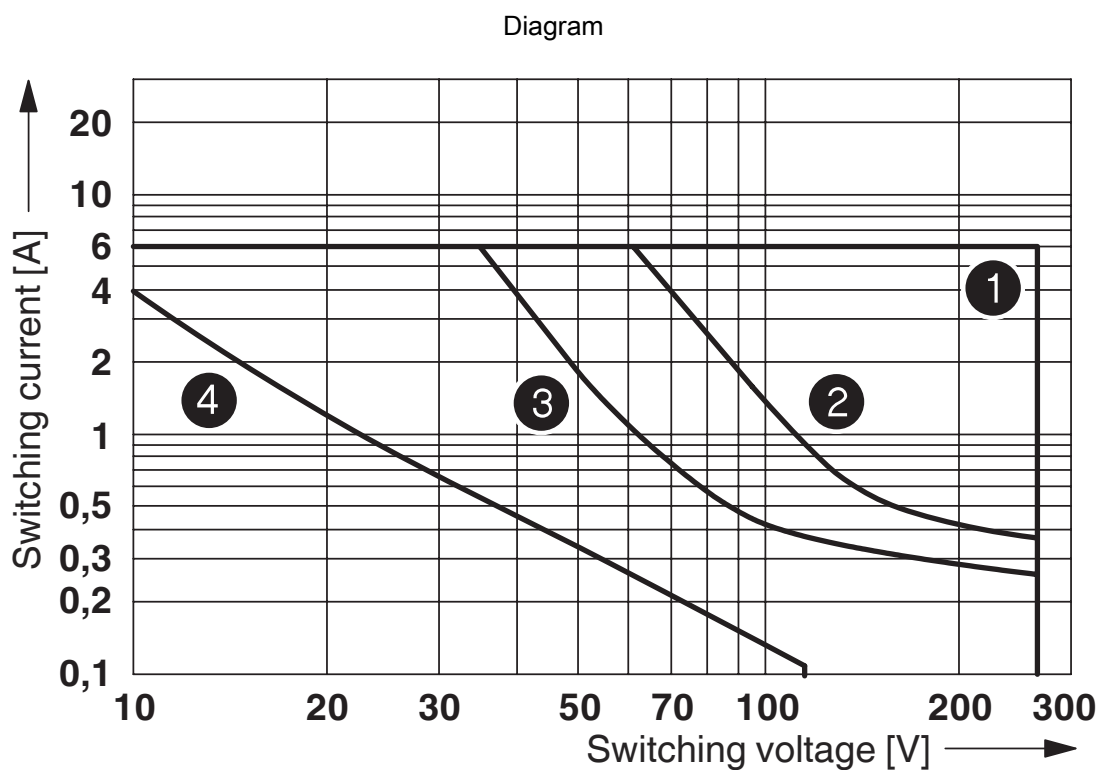
Application drawing



Occurrence of interference signals  
Scenario 2: long signal cables

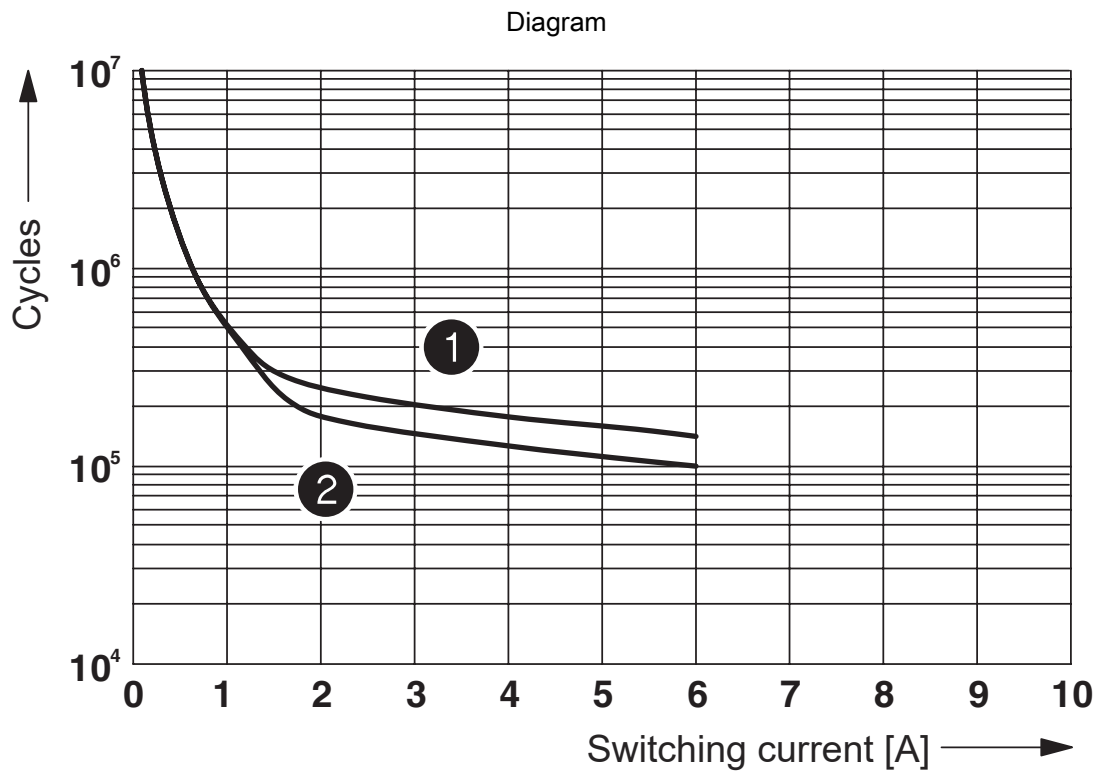


Operating voltage range



- ① AC, ohmic load
- ② DC, ohmic load, contacts in series
- ③ DC, ohmic load
- ④ DC, L/R = 40 ms

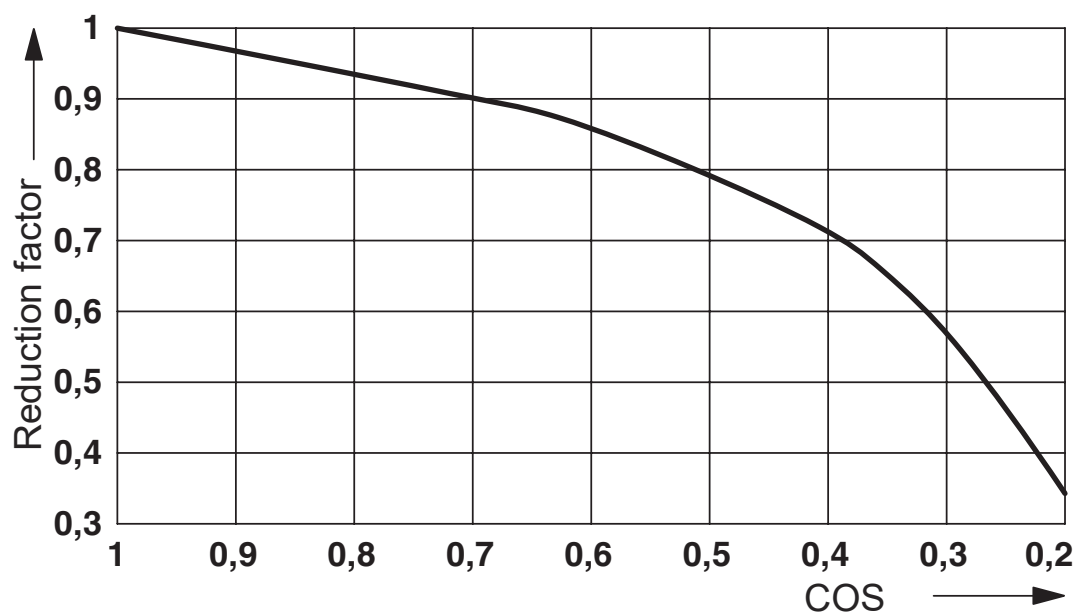
Interrupting rating



- ① 250 V AC, ohmic load (DC coils)
- ② 250 V AC, ohmic load (AC coils)

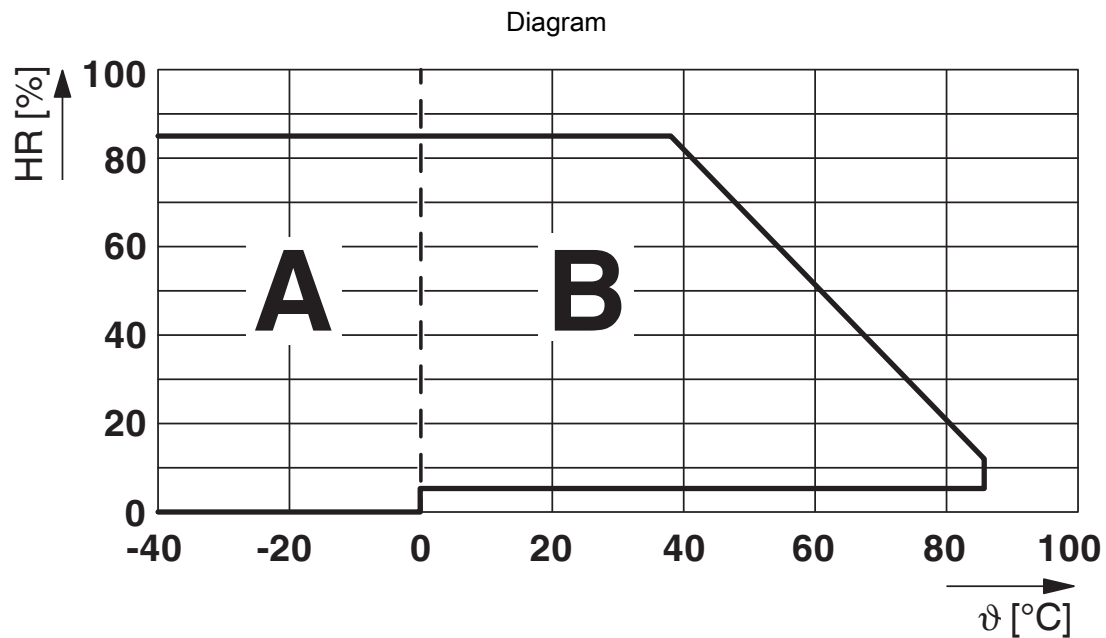
Electrical service life

Diagram



Service life reduction factor





Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures  $\leq 0^{\circ}\text{C}$  must be prevented

Area B: Condensation at ambient temperatures  $> 0^{\circ}\text{C}$  must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature  $\leq 25^{\circ}\text{C}$ .

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1136244>



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010



**EAC**

Approval ID: RU D-DE.B\*00573/18



**DNV GL**

Approval ID: TAE0000196



**cULus Listed**

Approval ID: E140324

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27371601 |
| ECLASS-15.0 | 27371601 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001437 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

## 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.) | Hexahydromethylphthalic anhydride(CAS: n/a) |
|                                     | Lead(CAS: 7439-92-1)                        |
| SCIP                                | 89ac8d36-249f-420b-a8b4-7bd19da81362        |