

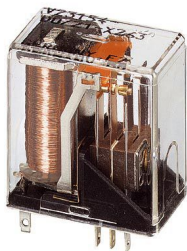
# REL-SW120/F104 - Single relay



2960371

<https://www.phoenixcontact.com/us/products/2960371>

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KAMMRELAIS®, contact F 104, size 2, heavy-duty contact, 2 changeover contacts, input voltage 120 V AC

The figure shows the version REL-SG  
24/F 104

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2960371                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | NULL                           |
| Product key                          | DK6192                         |
| GTIN                                 | 4017918086770                  |
| Weight per piece (including packing) | 40.2 g                         |
| Weight per piece (excluding packing) | 39.4 g                         |
| Customs tariff number                | 85364900                       |
| Country of origin                    | DE                             |

## Technical data

### Product properties

|                         |                                |
|-------------------------|--------------------------------|
| Product type            | Single relay                   |
| Mechanical service life | approx. 10 <sup>6</sup> cycles |

### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 01.04.2026 |
|------------------------------|------------|

### Electrical properties

|                                                      |                                                                |
|------------------------------------------------------|----------------------------------------------------------------|
| Test voltage (Winding/contact)                       | 1 kV AC (50 Hz, 1 min., winding/contact)                       |
| Test voltage (Changeover contact/changeover contact) | 1 kV AC (50 Hz, 1 min., changeover contact/changeover contact) |

### Input data

#### Coil side

|                                           |                          |
|-------------------------------------------|--------------------------|
| Nominal input voltage $U_N$               | 120 V AC                 |
| Input voltage range                       | 96 V AC ... 132 V AC     |
| Input voltage range in reference to $U_N$ | 0.8 ... 1.1              |
| Typical response time                     | 4 ms ... 15 ms           |
| Typical release time range                | 4 ms ... 15 ms           |
| Coil resistance                           | 3500 $\Omega$ $\pm$ 10 % |

### Output data

#### Switching

|                                       |                       |
|---------------------------------------|-----------------------|
| Contact switching type                | 2 changeover contacts |
| Type of switch contact                | Single contact        |
| Contact material                      | Ag, gold-flashed      |
| Maximum switching voltage             | 250 V AC/DC           |
| Limiting continuous current           | 5 A                   |
| Maximum inrush current                | 5 A                   |
| Interrupting rating (ohmic load) max. | 120 W (at 24 V DC)    |
|                                       | 60 W (at 48 V DC)     |
|                                       | 50 W (at 60 V DC)     |
|                                       | 70 W (at 110 V DC)    |
|                                       | 70 W (for 250 V DC)   |
|                                       | 500 VA (for 250 V AC) |

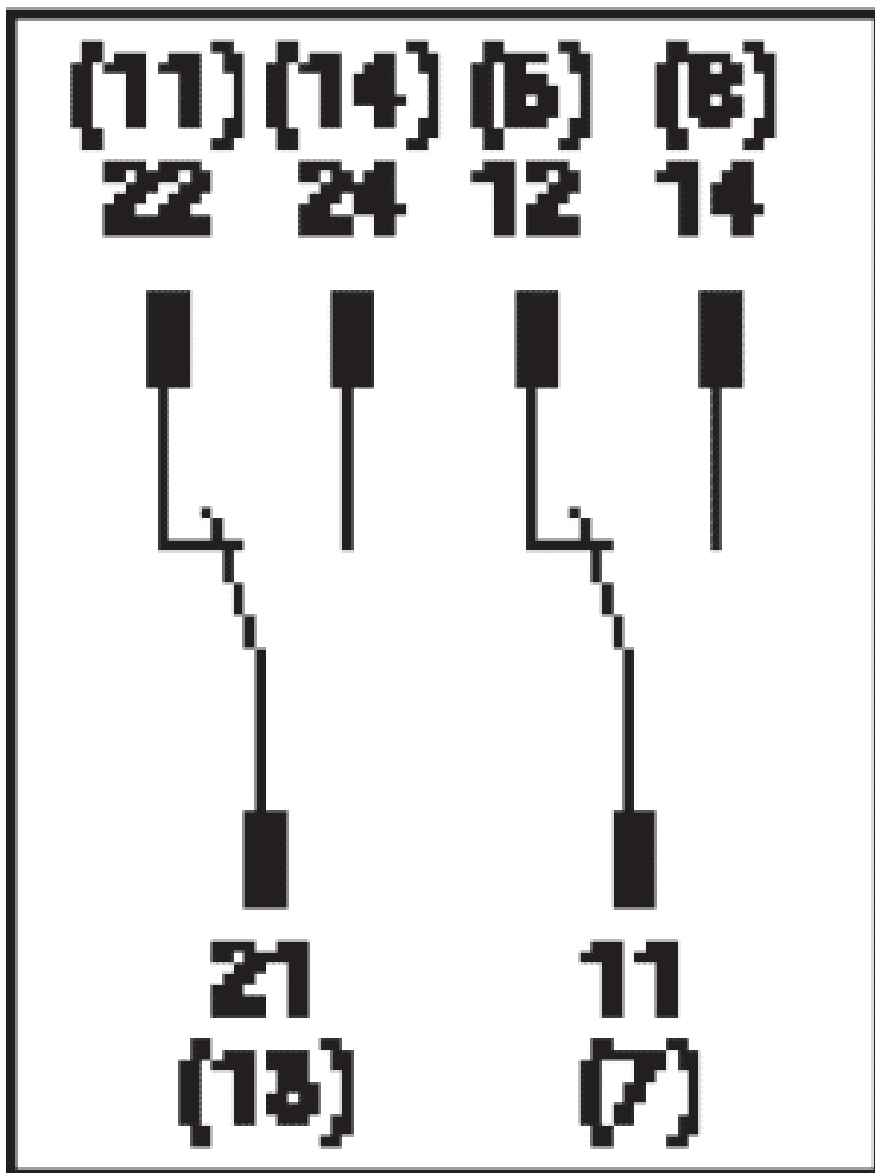
### Environmental and real-life conditions

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |

## Drawings

Circuit diagram



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## Environmental product compliance

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.)    | No substance above 0.1 wt%                                                                                                                                                                                                        |

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