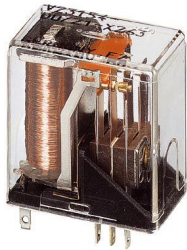


REL-SG 48/F104 - Single relay

2960148

<https://www.phoenixcontact.com/us/products/2960148>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



KAMMRELAIS®, contact F 104, size 2, heavy-duty contact, 2 changeover contacts, input voltage 48 V DC

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

Commercial data

Item number	2960148
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6192
GTIN	4017918086558
Weight per piece (including packing)	27.77 g
Weight per piece (excluding packing)	27.45 g
Customs tariff number	85364190
Country of origin	DE

REL-SG 48/F104 - Single relay



2960148

<https://www.phoenixcontact.com/us/products/2960148>

Technical data

Product properties

Product type	Single relay
Mechanical service life	approx. 10^7 cycles

Data management status

Date of last data management	05.09.2025
------------------------------	------------

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	48 V DC
Input voltage range	38.4 V DC ... 52.8 V DC
Input voltage range in reference to U_N	0.8 ... 1.1
Typical response time	8 ms
Typical release time	3 ms
Coil resistance	3200 Ω +15 %

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)

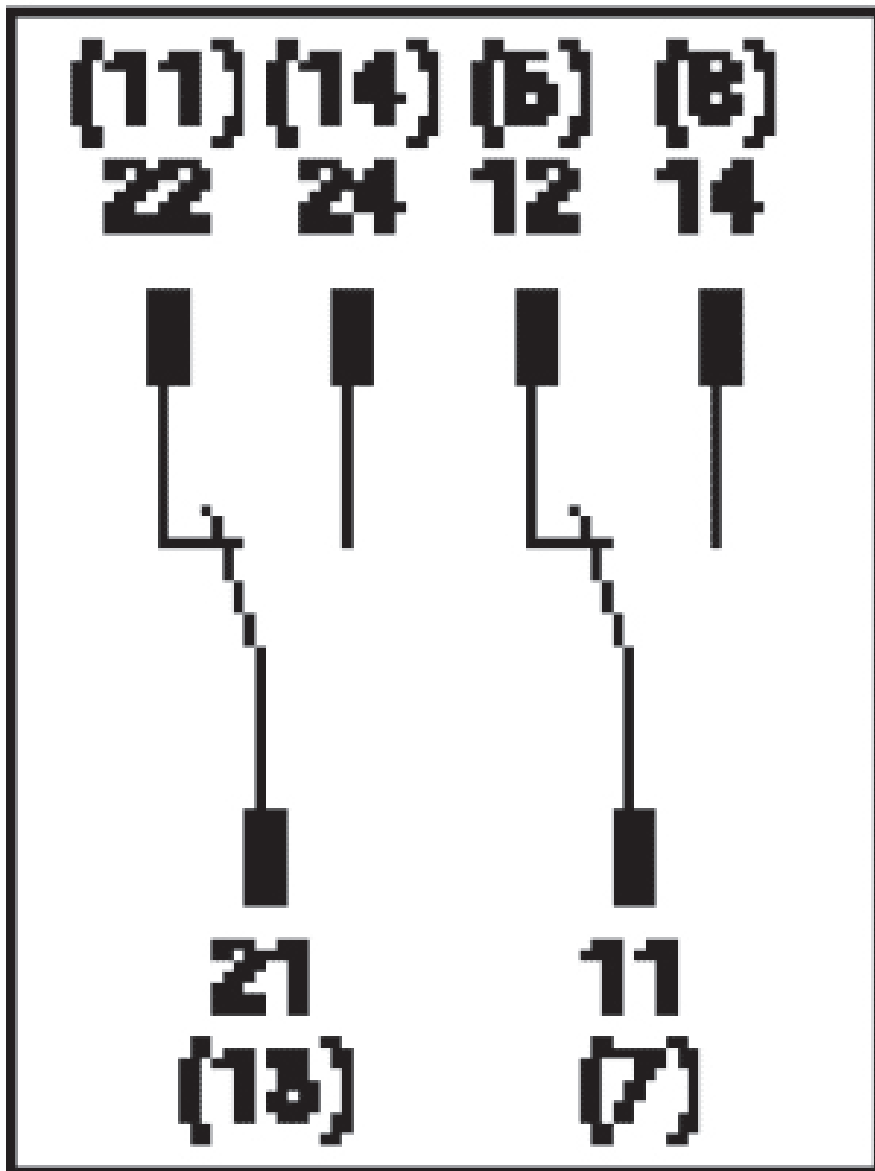
Environmental and real-life conditions

Ambient conditions

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

Drawings

Circuit diagram



REL-SG 48/F104 - Single relay



2960148

<https://www.phoenixcontact.com/us/products/2960148>

Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-5 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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

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