

Single relay - REL-MR-110DC/21-21/MS - 1012698

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's documentation. Our General Terms of Use for Downloads are valid
(<http://phoenixcontact.com/download>)



Plug-in miniature relay, with power contact, 2 changeover contacts, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2, input voltage 110 V DC

Your advantages

- ✓ With detectable manual operation
- ✓ DC types with integrated freewheeling diode
- ✓ Integrated status LED
- ✓ Mechanical switch position indicator



COMPLIANT

Key Commercial Data

Packing unit	10 pc
GTIN	 4 055626 490175
GTIN	4055626490175
Weight per Piece (excluding packing)	16.600 g
Custom tariff number	85364900
Country of origin	China
Note	Made to Order (non-returnable)

Technical data

Dimensions

Width	12.7 mm
Height	29 mm
Depth	25 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Coil side

Single relay - REL-MR-110DC/21-21/MS - 1012698

Technical data

Coil side

Nominal input voltage U_N	110 V DC
Input voltage range in reference to U_N	see diagram
Typical input current at U_N	3.6 mA
Typical response time	9 ms
Typical release time	6 ms

Contact side

Contact type	2 PDT
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Min. switching current	10 mA (at 12 V)
Maximum inrush current	16 A (20 ms)
Limiting continuous current	8 A
Interrupting rating (ohmic load) max.	2000 VA (for 250 V AC)
Motor load according to UL 508	1/4 HP, 120 V AC (N/O contact)
	1/2 HP, 240 V AC (N/O contact)

General

Test voltage relay winding/relay contact	5 kV AC (50 Hz, 1 min.)
Test voltage relay contact/relay contact	5 kV AC (50 Hz, 1 min.)
Test voltage PDT/PDT	5 kV AC
Mechanical service life	5x 10 ⁶ cycles
Service life, electrical	see diagram

Connection data

Connection method	Solder connection
-------------------	-------------------

Standards and Regulations

Standards/regulations	EN 61810-1
	VDE 0435-201
	EN 50178

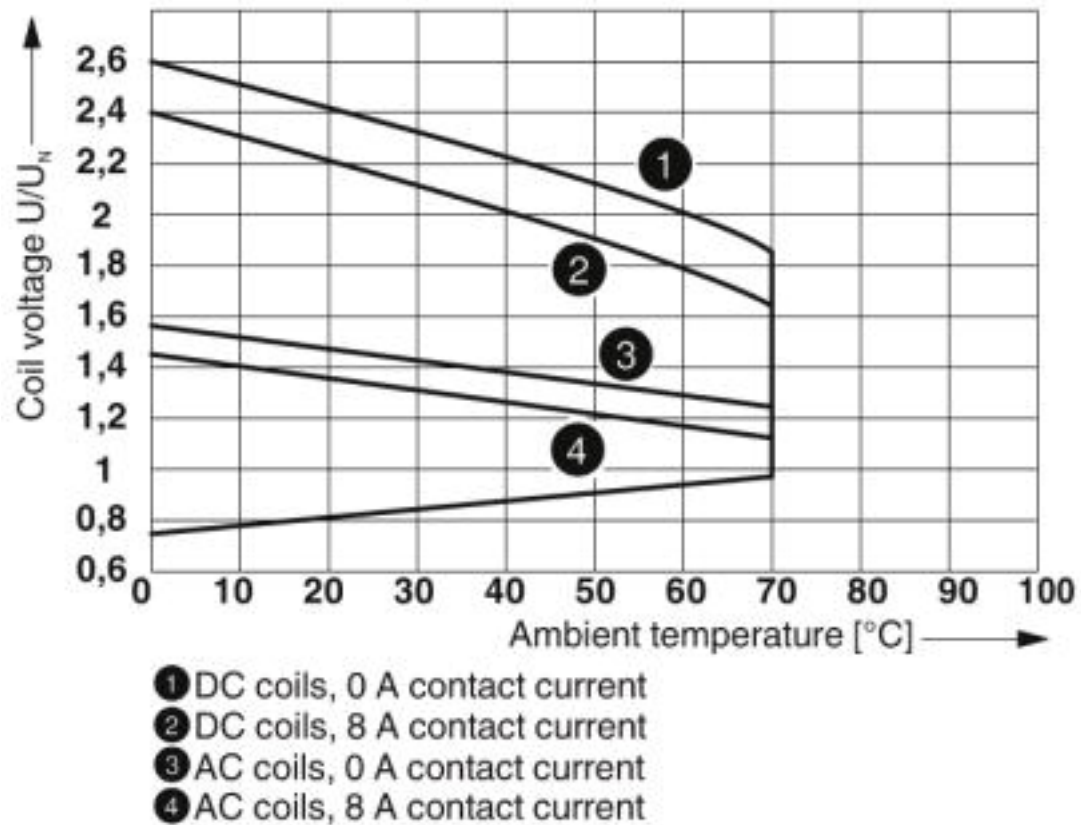
Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Single relay - REL-MR-110DC/21-21/MS - 1012698

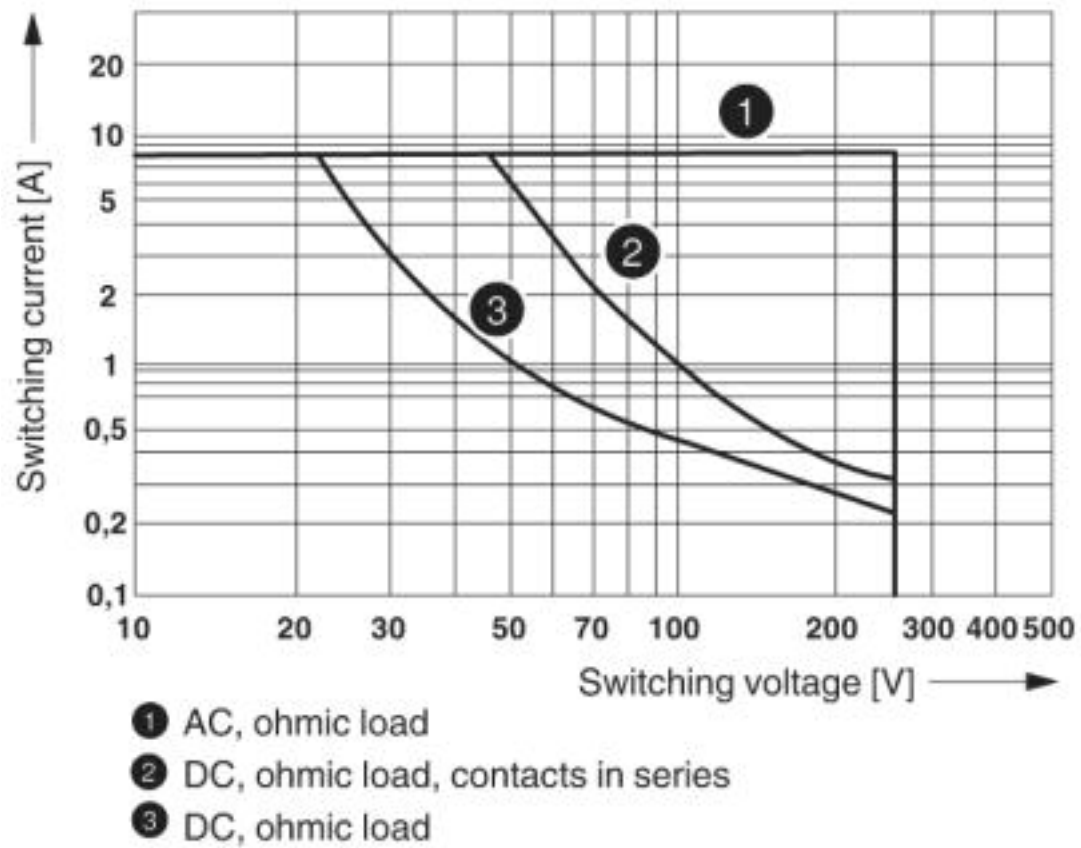
Diagram



Operating voltage range

Single relay - REL-MR-110DC/21-21/MS - 1012698

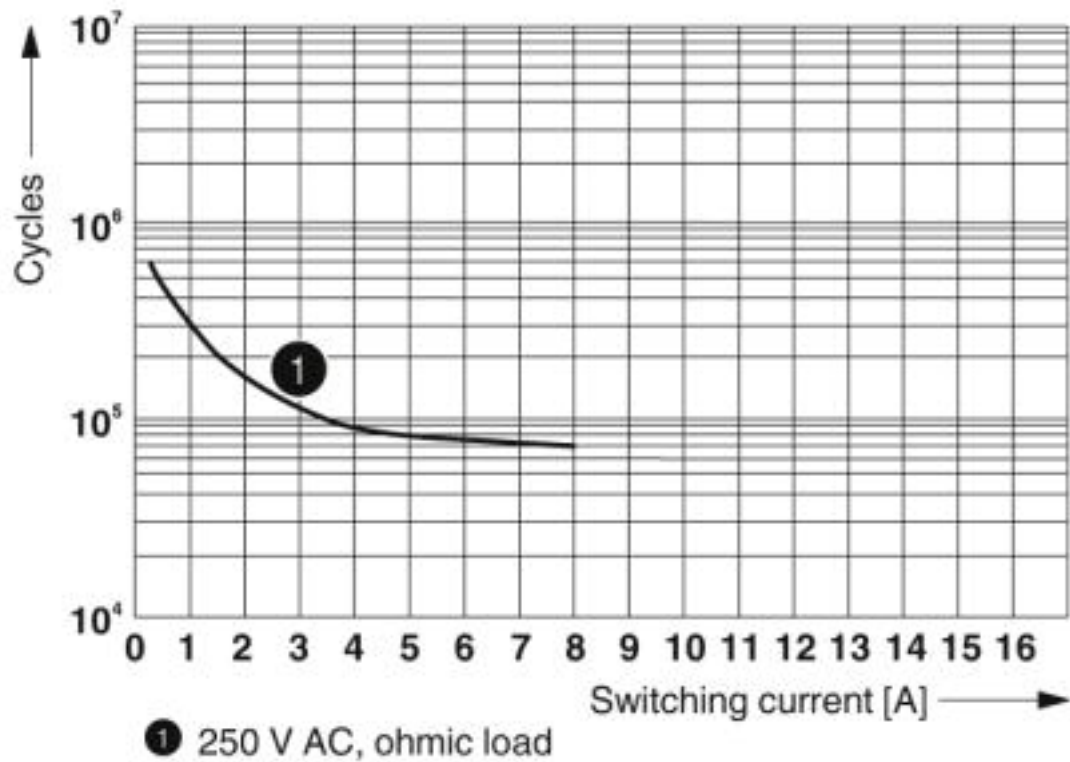
Diagram



Interrupting rating

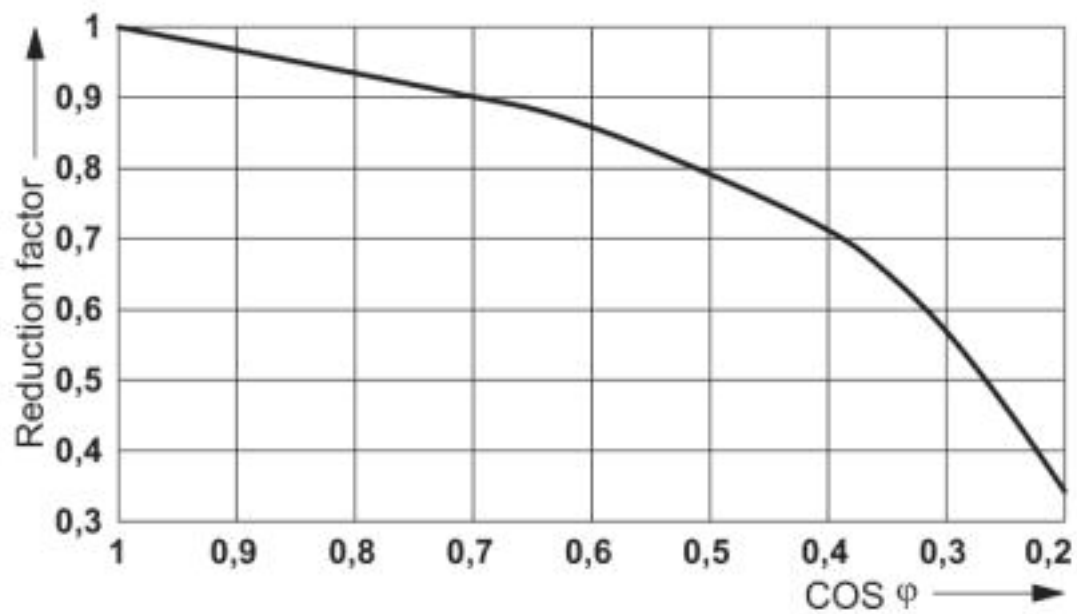
Single relay - REL-MR-110DC/21-21/MS - 1012698

Diagram



Electrical service life

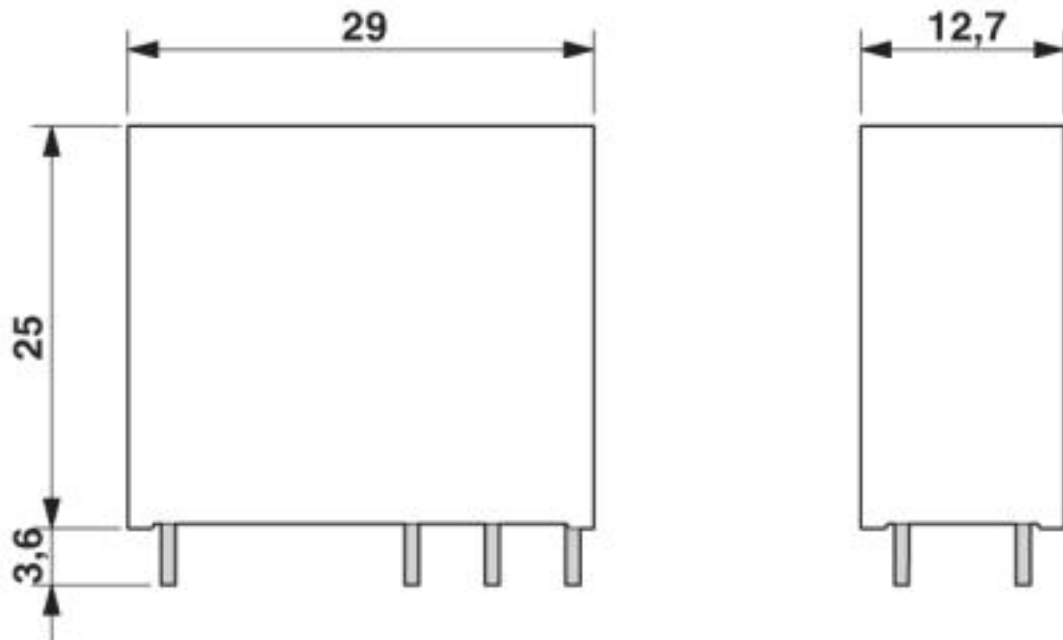
Diagram



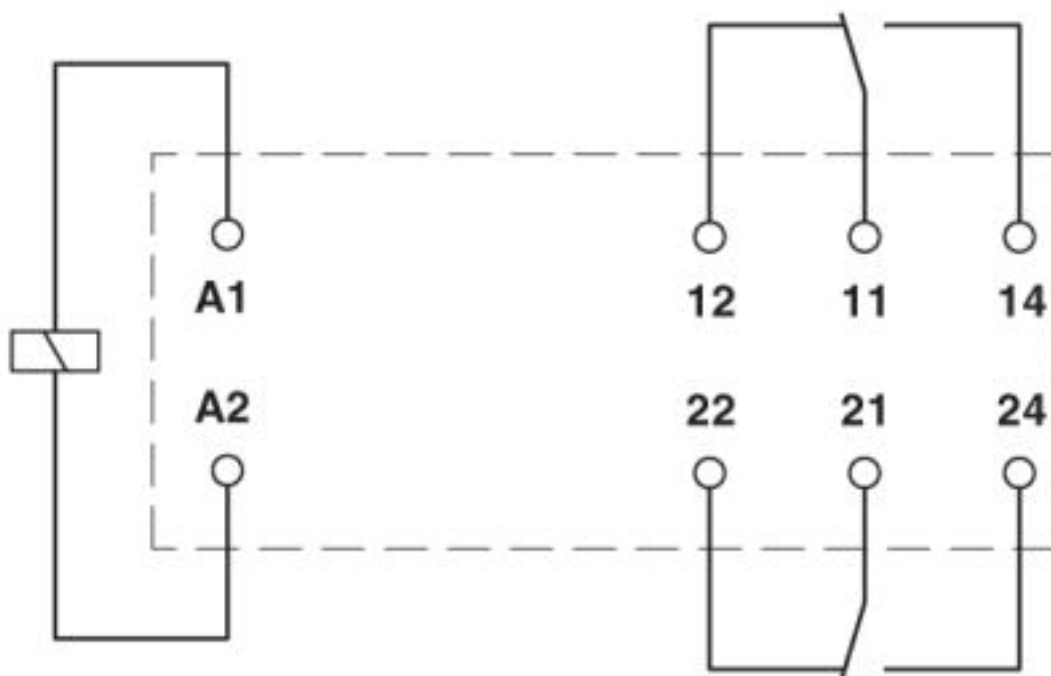
Service life reduction factor with various cos phi

Single relay - REL-MR-110DC/21-21/MS - 1012698

Dimensional drawing



Circuit diagram



Classifications

eCl@ss

eCl@ss 5.0

27371600

Single relay - REL-MR-110DC/21-21/MS - 1012698

Classifications

eCl@ss

eCl@ss 5.1	27371600
eCl@ss 6.0	27371600
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 5.0	EC001437
ETIM 6.0	EC001437
ETIM 7.0	EC001437

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39122334
UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 172140

Single relay - REL-MR-110DC/21-21/MS - 1012698

Approvals

cUL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 172140

EAC



TR_TS_D_00573_c

EAC



TR_TS_S_00010_c

cULus Recognized



Accessories

Additional products

Relay base - PLC-BSC-120UC/21-21/H - 1012014



14 mm PLC basic terminal block without relay, for mounting on DIN rail NS 35/7,5, Screw connection, 2 PDT, Input voltage 120 V AC/DC

Relay base - PLC-BPT-120UC/21-21/H - 1012002



14 mm PLC basic terminal block without relay, for mounting on DIN rail NS 35/7,5, Push-in connection, 2 PDT, Input voltage 120 V AC/DC

Relay base - PLC-BSC-230UC/21-21/H - 1012001



14 mm PLC basic terminal block without relay, for mounting on DIN rail NS 35/7,5, Screw connection, 2 PDT, Input voltage 230 V AC/DC

Single relay - REL-MR-110DC/21-21/MS - 1012698

Accessories

Relay base - PLC-BPT-230UC/21-21/H - 1011961



14 mm PLC basic terminal block without relay, for mounting on DIN rail NS 35/7,5, Push-in connection, 2 PDT, Input voltage 230 V AC/DC