

Single relay - REL-MR-230AC/21HC AU - 2961529

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 power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 230 V AC

Your advantages

- RT III-proof (wash-proof)
- Switching current of up to 16 A



Key Commercial Data

Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 017918 937928
GTIN	4017918937928

Technical data

Dimensions

Width	12.7 mm
Height	29 mm
Depth	15.7 mm

Ambient conditions

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

Coil side

Nominal input voltage U_N	230 V AC
Mains frequency	50/60 Hz
Typical input current at U_N	3 mA (at 50 Hz)
	2.5 mA (At 60 Hz)
Typical response time	3 ms ... 12 ms (depending on phase relation)

Single relay - REL-MR-230AC/21HC AU - 2961529

Technical data

Coil side

Typical release time range	2 ms ... 9 ms (depending on phase relation)
Coil resistance	32500 Ω ±15 % (at 20 °C)
Power dissipation for nominal condition	0.69 W

Contact side

Contact type	1 PDT
Type of switch contact	Single contact
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Min. switching current	1 mA (at 24 V)
Maximum inrush current	50 mA
Limiting continuous current	50 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity	2 A (at 24 V, AC15)

Contact side (with destroyed gold layer)

Contact material	AgNi
Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Limiting continuous current	16 A
Maximum inrush current	50 A (20 ms)
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	384 W (at 24 V DC)
	58 W (at 48 V DC)
	48 W (at 60 V DC)
	50 W (at 110 V DC)
	80 W (at 220 V DC)
	4000 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	2 A (at 24 V, AC15)
	2 A (at 120 V, AC15)
	2 A (at 250 V, AC15)

General

Test voltage relay winding/relay contact	5 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	1x 10 ⁷ cycles

Single relay - REL-MR-230AC/21HC AU - 2961529

Technical data

General

Service life, electrical	see diagram
Mounting position	any
Assembly instructions	Can be aligned without spacing ($> 70\text{ °C} \geq 2.5\text{ mm}$)

Connection data

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

Standards and Regulations

Connection in acc. with standard	CUL
Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1
Pollution degree	3
Overvoltage category	III

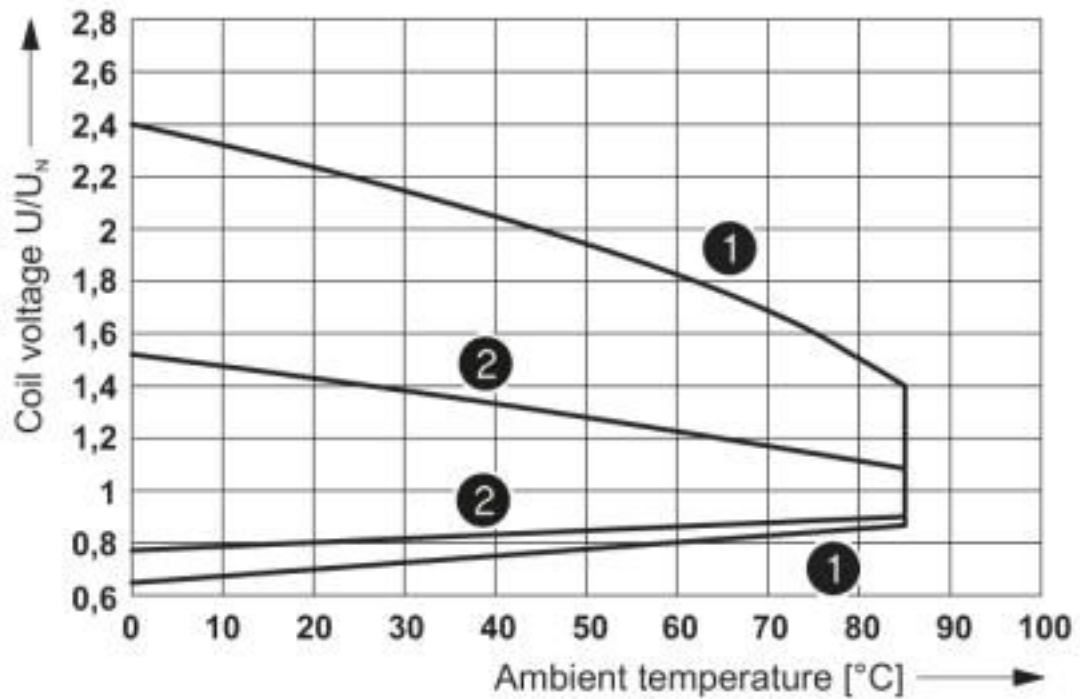
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Single relay - REL-MR-230AC/21HC AU - 2961529

Diagram

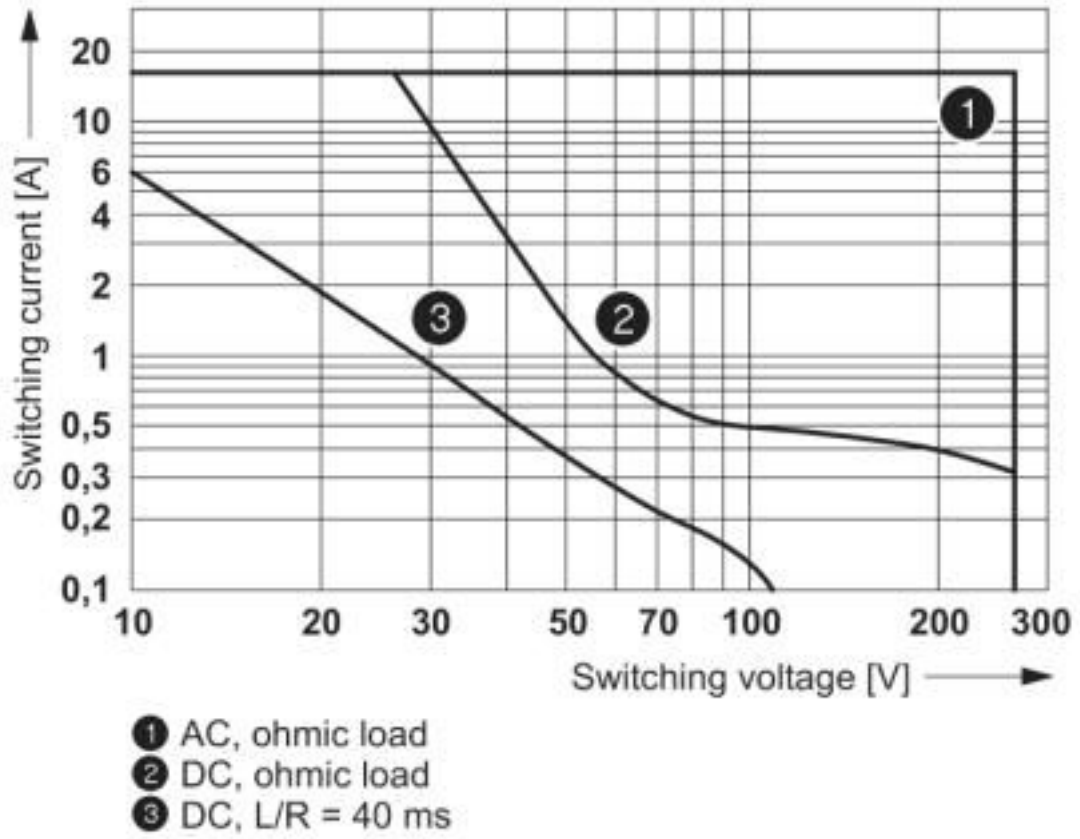


- ① DC coils
- ② AC coils

Operating voltage range

Single relay - REL-MR-230AC/21HC AU - 2961529

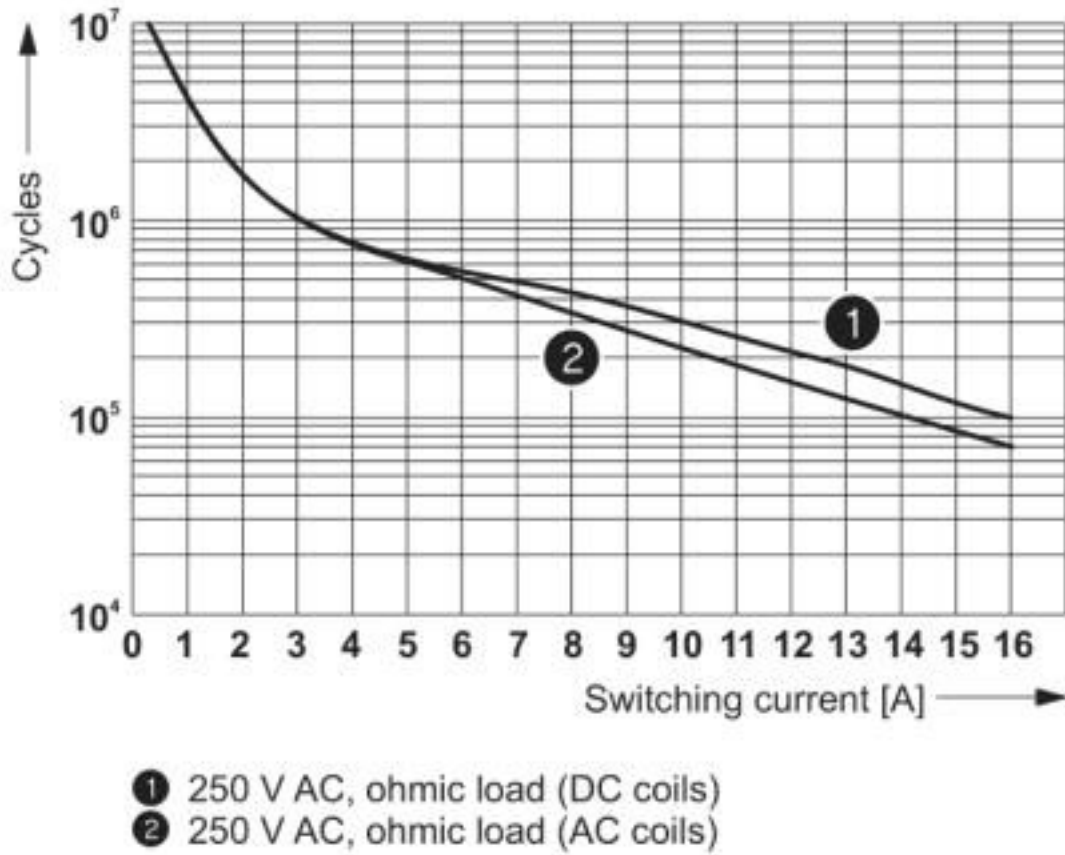
Diagram



Interrupting rating

Single relay - REL-MR-230AC/21HC AU - 2961529

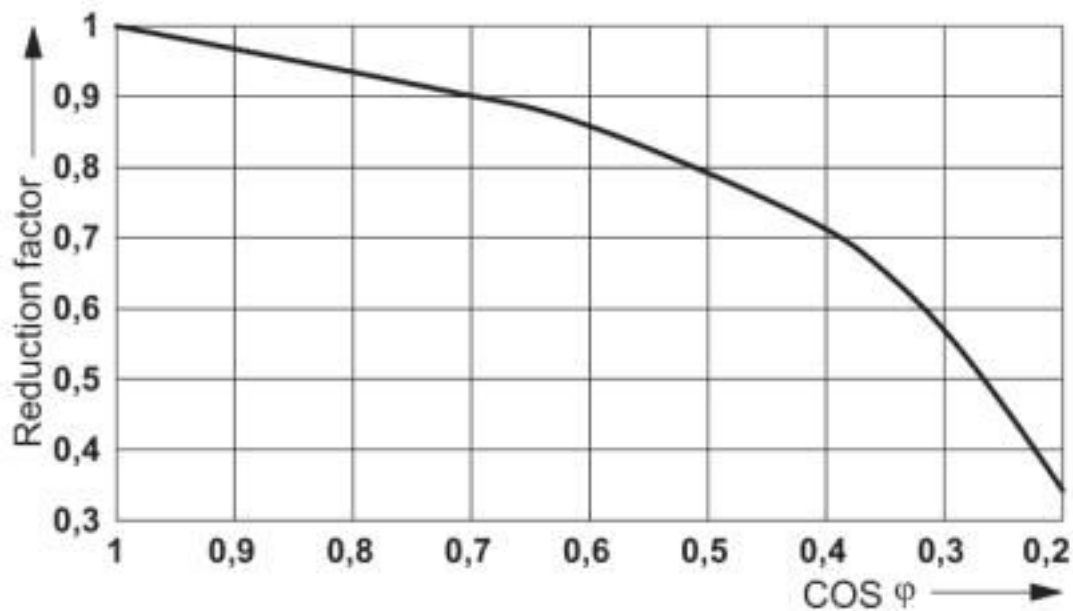
Diagram



Electrical service life

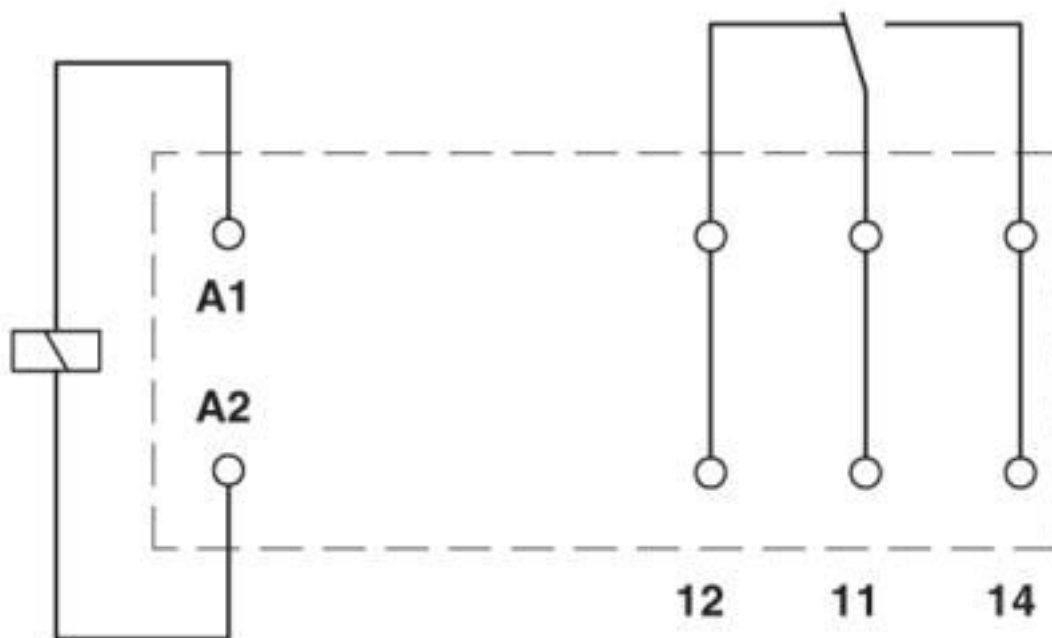
Single relay - REL-MR-230AC/21HC AU - 2961529

Diagram



Service life reduction factor with various cos phi

Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27371601
---------------	----------

Single relay - REL-MR-230AC/21HC AU - 2961529

Classifications

eCl@ss

eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371600
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

EAC / EAC / UL Recognized / UL Recognized / cUL Recognized / cUL Recognized / VDE Zeichengenehmigung / VDE Zeichengenehmigung

Ex Approvals

Approval details

Single relay - REL-MR-230AC/21HC AU - 2961529

Approvals

EAC			TR_TS_D_00573_c
-----	--	--	-----------------

EAC			RU*C-DE.*08.B.00010
-----	--	--	---------------------

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 228652
---------------	--	---	---------------

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
---------------	--	---	---------------

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 228652
----------------	--	---	---------------

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
----------------	--	---	---------------

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40007758
------------------------	--	---	----------

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40048281
------------------------	--	---	----------

Accessories

Additional products

Relay base - PR1-BSC2/2X21 - 2833518



Relay base PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 2/2 level design, screw connections, connection facility for input/interference suppression modules

Single relay - REL-MR-230AC/21HC AU - 2961529

Accessories

Relay base - PR1-BSC3/2X21 - 2833521



Relay base PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, screw connections, connection facility for input/interference suppression modules

Relay base - PR1-BSP3/2X21 - 2833534



Relay base PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, spring-cage connections, connection facility for input/interference suppression modules

Relay base - RIF-1-BPT/2X21 - 2900931



RIF-1... relay base, for miniature power relay with 1 or 2 PDTs or solid-state relays of the same design, push-in connection, plug-in option for input/suppressor modules, for mounting on NS 35/7,5

Relay base - RIF-1-BSC/2X21 - 2900930



RIF-1... relay base, for miniature power relay with 1 or 2 changeover contacts or identical solid-state relays, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

Phoenix Contact 2020 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Industrial Relays](#) category:

Click to view products by [Phoenix Contact](#) manufacturer:

Other Similar products are found below :

[6-1617801-8](#) [6-1618107-9](#) [7-1618273-3](#) [EV250-4A-02](#) [EV250-6A-01](#) [FCA-125-CX8](#) [FCA-325-159](#) [FCA-410-138](#) [8000-S3121](#) [8-1618273-6](#)
[8-1618393-1](#) [GCA63A220VAC60HZ](#) [GCA63A277VAC60HZ](#) [GCA63A600VAC60HZ](#) [1-1672275-3](#) [1-1833005-4](#) [H-16/S1](#) [A711Z](#) [H-8C](#)
[H-8/S11](#) [H-8/S68](#) [ACC530U20](#) [ACC730U30](#) [RF303ZM4-12](#) [DH18DA](#) [1423675-8](#) [AR4-15F13-C01](#) [AR7-41F11](#) [AVR907](#) [15732A200](#)
[B07B032AC1-0329](#) [B329](#) [B490A](#) [1618279-1](#) [BHR124Y](#) [1810DDB-SX](#) [N417](#) [P30C42A12D1-120](#) [2-1617748-6](#) [2-1618375-1](#) [2-1618396-6](#)
[2-1618398-1](#) [JMAPD-5XL](#) [JMGACD-5M](#) [JMGSC-5LW](#) [JMGSCD-5L](#) [PBO-18A1218](#) [PBO-40A3040](#) [K8DSPH1200480VAC](#) [KA-3C-12A](#)