

Power PCB Relay RX2

- 2 pole 8A, 2 form C (CO) contacts
- **■** DC or AC coil
- **■** Reinforced insulation
- Height 15.7mm
- **■** Transparent cover optional

Typical applications

Domestic appliances, heating control, emergency lighting, automatic doors



S0271-A



Approvals

VDE REG.-Nr. A651, UL E214025

Technical data of approved types on request

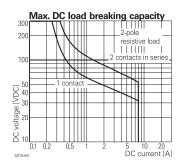
Contact Data		
Contact arrangement	2 form C (CO)	
Rated voltage	250VAC	
Max. switching voltage	400VAC	
Rated current	8A	
Limiting making current, max 4 s, duty factor	r 10% 15A	
Breaking capacity max.	2000VA	
Contact material	AgNi 90/10	
Frequency of operation, with/without load	360/36000h ⁻¹	
Operate/release time max., DC coil	8/6ms	
Bounce time max., DC coil, form A/form B	4/10ms	

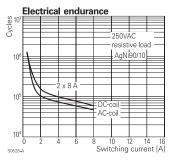
Contact ratings

Туре	Contact	Load	Cycles
IEC 61810			
RX424	A/C (NO/CO)	8A, 250VAC resistive, 70°C	$40x10^3$
RX424	B (NC)	8A, 250VAC resistive, 70°C	60x10 ³
UL 508			
RX424	A/B (NO/NC)	8A, 250VAC, general purpose 70°C	40x10 ³

Mechanical endurance

DC coil	>5x10 ⁶ operations
AC coil	>1x10 ⁶ operations





Coil Data		
Coil voltage range		
DC coil	5 to 110VDC	
AC coil	24 to 230VAC	
Operative range, IEC 61810	2	
Coil insulation system according UL 1446	class F	

Coil versions, DC coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
005	5	3.5	0.5	50	500
006	6	4.2	0.6	68	529
012	12	8.4	1.2	274	526
024	24	16.8	2.4	1095	526
048	48	33.6	4.8	4380	526
060	60	42.0	6.0	6845	526
110	110	77.0	11.0	23010	526

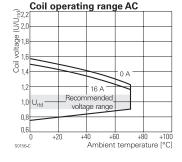
All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request.

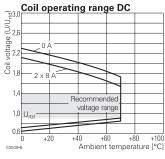
Coil versions, AC coil

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Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VAC	VAC	VAC	$\Omega \pm 15\%^{1)}$	VA
524	24	18.0	3.6	350 ¹⁾	0.76
615	115	86.3	17.3	8100	0.76
730	230	172.5	34.5	32500	0.74

1) Coil resistance ±10%.

All figures are given for coil without pre-energization, at ambient temperature +23°C, 50Hz. Other coil voltages on request.







Power PCB Relay RX2 (Continued)

Insulation Data	
Initial dielectric strength	
between open contacts	1000V _{rms}
between contact and coil	4000V _{rms}
between adjacent contacts	2500V _{rms}
Clearance/creepage	
between contact and coil	≥ 8/8mm
between adjacent contacts	≥ 3/4mm
Material group of insulation parts	Illa
Tracking index of relay base	PTI250V

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature -40 to 70°C Category of environmental protection

RTII - flux proof IEC 61810 Vibration resistance (functional),

form A/form B, 10 to 150Hz 20/4g Shock resistance (destructive) 100g

Terminal type

PCB-THT, plug-in standard version (white cover) transparent version PCB-THT

Mounting distance

standard version (white cover) ≥ 2.5mm ≥ 5mm transparent version Weight 14g

Resistance to soldering heat THT

IEC 60068-2-20 270°C/10s

> Standard cover (white) Transparent cover (clear)

Packaging/unit tube/20 pcs., box/500 pcs.

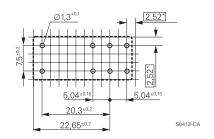
Accessories

For standard version (white cover),

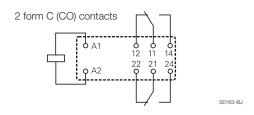
Accessories Industrial Power Relay RT details see datasheet NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

PCB layout / terminal assignment

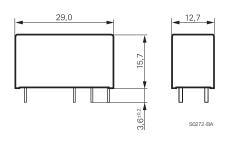
Bottom view on solder pins



*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.



Dimensions



Product code structure	Typical product code	RX	4	2	4	012
Туре						
RX Power PCB Relay RX2						
Version						
4 8A, pinning 5mm, flux proof						
Contact configuration						
2 2 form C (CO) contacts						
Contact material						
4 AgNi 90/10						
Coil						
Coil code: please refer to coil versions table						
Cover						

Product code	Version	Contacts	Contact material	Coil	Cover	Part number
RX424005	8A	2 form C (CO)	AgNi 90/10	5VDC	White	5-1415525-1
RX424006	pinning 5mm	contacts		6VDC		5-1415524-1
RX424012	flux proof			12VDC		2-1415504-1
RX424012C					Transparent	5-1415504-1
RX424024				24VDC	White	3-1415504-1
RX424024C					Transparent	6-1415504-1
RX424730				230VAC	· ·	4-1415504-1
BX424730C					Transparent	7-1415504-1

This list represents the most common types and does not show all variants covered by this datasheet. Other types on request

Blank