

Electronics

Power PCB Relay RT2

- 2 pole 8 A, 2 CO or 2 NO contacts
- DC- or AC-coil
- Sensitive coil 400 mW
- **■** Reinforced insulation
- WG version: Product in accordance to IEC60335-1
- RoHS compliant (Directive 2002/95/EC) as per product date code 0413



Domestic appliances, heating control, emergency lighting, modems



F0149-B

SCHRACK

Approvals

VDE REG.-Nr. 6106, C TUS E214025, Technical data of approved types on request

Contact data

Contact data	
Contact configuration	2 CO or 2 NO
Contact set	single contact
Type of interruption	micro disconnection
Rated current	8 A, UL: 10 A
Rated voltage / max.switching voltage AC	240/400 VAC
Limiting continuous current	UL: 10 A
Maximum breaking capacity AC	2000 VA
Limiting making capacity, max 4 s, duty fact	or 10% 15 A
Contact material	AgNi 90/10, AgNi 90/10 gold plated, AgSnO ₂
Mechanical endurance DC coil	> 30 x 10 ⁶ cycles
AC coil	> 5 x 10 ⁶ cycles
Rated frequency of operation with / without I	oad 6 / 1200 min-1

Contact	rati	ngs

Туре	Load	Cycles
RT424	8 A, 250 VAC, NO contact, 70°C, EN61810-1	100x10 ³
RT444	6(3) A, 250 VAC, NO contact, 85°C; EN60730-1	100x10 ³
RT424	6(2) A, 250 VAC, NO/NC contact, 85°C; EN60730-1	100x10 ³
RT424	10 A, 250 VAC, CO contact, 70°C; General purpose, UL508	30x10 ³
RT424	1/2hp @ 240 VAC, 1/4hp @ 120 VAC, UL508	
RT424	Pilot duty B300, UL508	
RT424	8 A, 30 VDC, General Purpose, UL508	
RT424	4 A, 230 VAC, cosφ=0.6, gas burner	150x10 ³

انم	data
COII	uata

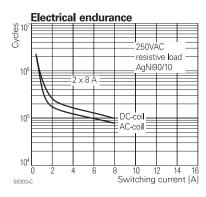
5110 VDC
24230 VAC
typ 400 mW
typ 0,75 VA
2
class F

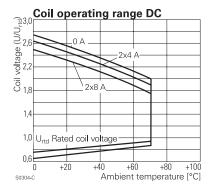
Coil versions, DC-coil

OO 10.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω	mW
005	5	3.5	0.5	62±10%	403
006	6	4.2	0.6	90±10%	400
012	12	8.4	1.2	360±10%	400
024	24	16.8	2.4	1440±10%	400
048	48	33.6	4.8	5520±10%	417
060	60	42.0	6.0	8570±12%	420
110	110	77.0	11.0	28800±12%	420

All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request

Max. DC load breaking capacity 2-pole 200 resistive load contacts in series 100 [VDC] 40 30 voltage 0 2 10 5 10 20 DC current [A]





Datasheet Rev. FE1 Issued 2006/05 www.tycoelectronics.com www.schrackrelays.com

Dimensions are in mm unless otherwise specified and are shown for reference purposes only.

Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.





Electronics

Power PCB Relay RT2 (Continued)

Coil versions, AC-coil 50Hz

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
		50 Hz	50 Hz		50 Hz
	VAC	VAC	VAC	Ω	VA
524	24	18.0	3.6	350±10%	0.76
615	115	86.3	17.3	8100±15%	0.76
700	200	150.0	30.0	24350±15%	0.76
730	230	172.5	34.5	32500±15%	0.74
All figures are given for ceil without prespergization, at ambient temperature, 122°C					

Insulation	
Dielectric strength coil-contact circuit	5000 V _{rms}
open contact circuit	1000 V _{rms}
adjacent contact circuits	2500 V _{rms}
Clearance / creepage coil-contact circuit	≥ 10 / 10 mm
adjacent contact circuits	≥ 3 / 4 mm
Material group of insulation parts	≥ IIIa
Tracking index of relay base	PTI 250 V
Insulation to IEC 60664-1	

Type of insulation coil-contact circuit reinforced open contact circuit functional adjacent contact circuits basic Rated insulation voltage 250 V

Pollution degree 3 2 240 V 400 V Rated voltage system Overvoltage category Ш

Other data

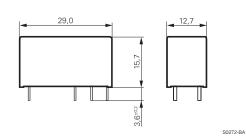
Othor data	
RoHS - Directive 2002/95/EC	compliant as per product date code 0413
Flammability class according to UL94	V-0
For WG version: GWFI to IEC 60335-1	> 850°C
GWT to IEC 60335-1 current	≤ 0,2 A > 650°C
current	> 0,2 A > 750°C
Ambient temperature range	-40+70°C
Operate- / release time DC coil	typ 7 / 2 ms
Bounce time DC coil NO / NC contact	typ 1 / 3 ms
Vibration resistance (function) NO / NC contact	ct 20 / 5 g, 30 300 Hz
Shock resistance (destruction)	100 g
Category of protection	RTII - flux proof, RTIII - wash tight
Mounting	pcb or on socket
Mounting distance DC / AC coils	0 / 2.5 mm
Resistance to soldering heat flux-proof version	n 270°C / 10 s
wash-tight version	on 260°C / 5 s
Relay weight	13 g
Packaging unit	20 / 500 pcs

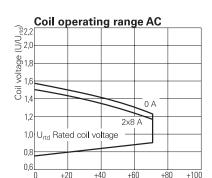
p 7 / 2 ms
p 1 / 3 ms
g, 30 300 Hz
100 g
oof, RTIII - wash tight
or on socket
/ 2.5 mm
70°C / 10 s
60°C / 5 s
13 g
) / 500 pcs

Accessories

For details see datasheet	accessories RT

Dimensions





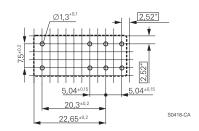
Ambient temperature [°C]

SCHRACK

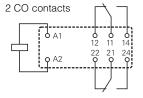
PCB layout / terminal assignment

Bottom view on solder pins

S0305-B

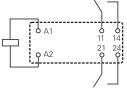


*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.



S0163-BJ





Datasheet Rev. FE1 Issued 2006/05 www.tycoelectronics.com www.schrackrelays.com

Dimensions are in mm unless otherwise specified and are shown for reference purposes only.

Product specification according to IEC 61810-1.
Product data, technical parameters, test conditions and

processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.







Electronics

Power PCB Relay RT2 (Continued)

Product key	RT4
Туре	
Version	
4 8 A, pinning 5 mm, flux proof E 8 A, pinning 5 mm, wash tight	
Contact configuration	
2 2 CO contacts	4 2 NO contacts
Contact material	
3 AgSnO ₂	
4 AgNi 90/10	5 AgNi 90/10 gold plated
Coil	
Coil code: please refer to coil versions table	
Version	
Blank Standard version	
WG Product in accordance with IEC 603	35-1 (domestic appliances)

Preferred types in bold print

Product key	Version	Contacts	Cont. material	Coil	Coil	_ Part number
RT424005	8 A	2 CO contacts	AgNi 90/10	DC-coil	5 VDC	5-1393243-9
RT424006	pinning 5 mm				6 VDC	6-1393243-1
RT424012	flux proof				12 VDC	6-1393243-3
RT424024					24 VDC	6-1393243-8
RT424048					48 VDC	7-1393243-0
RT424060					60 VDC	7-1393243-3
RT424110					110 VDC	7-1393243-5
RT424524				AC-coil	24 VAC	7-1393243-6
RT424615					115 VAC	7-1393243-8
RT424730					230 VAC	7-1393243-9
RT425005			AgNi 90/10	DC-coil	5 VDC	8-1393243-0
RT425012			gold plated		12 VDC	8-1393243-2
RT425024					24 VDC	8-1393243-5
RT425524				AC-coil	24 VAC	9-1393243-1
RT425615					115 VAC	9-1393243-2
RT425730					230 VAC	9-1393243-3
RT444012		2 NO contacts	AgNi 90/10	DC-coil	12 VDC	9-1393243-7
RT444024					24 VDC	9-1393243-9
RTE24005	8 A	2 CO contacts			5 VDC	0-1393243-1
RTE24006	pinning 5 mm				6 VDC	0-1393243-2
RTE24012	wash tight				12 VDC	0-1393243-4
RTE24024					24 VDC	1-1393243-0
RTE24048					48 VDC	1-1393243-1
RTE24060					60 VDC	1-1393243-3
RTE24110					110 VDC	1-1393243-4
RTE24524				AC-coil	24 VAC	1-1393243-5
RTE24615					115 VAC	1-1393243-7
RTE24730					230 VAC	1-1393243-8
RTE25005			AgNi 90/10	DC-coil	5 VDC	1-1393243-9
RTE25012			gold plated		12 VDC	2-1393243-0
RTE25024					24 VDC	2-1393243-1

'Schrack' section.