

General Purpose Relays



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

Applications

Domestic appliances, heating control, emergency lighting, modems

8 A, 250 VAC, NO contact, 70°C, EN61810-1

8 A, 30 VDC, General Purpose, UL508 4 A, 230 VAC, cosφ=0.6, gas burner

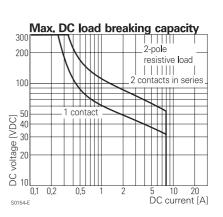
6(3) A, 250 VAC, NO contact, 70°C; EN60730-1 6(2) A, 250 VAC, NO contact, 85°C; EN60730-1 10 A, 250 VAC, NO/NC contact, 85°C; EN60730-1 10 A, 250 VAC, CO contact, 70°C; General purpose, UL508 1/2hp @ 240 VAC, 1/4hp @ 120 VAC, UL508 Pilot duty B300, UL508 PA 20 VAC, DC Coexeral Purpose, UL509

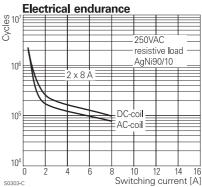


E0149-B

Approvals

REGNr. 6106, c PU us E214025, ^{BEAB} C0786					
Technical data of approved types on request					
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	$> 5 \times 10^6$ cycles				
Rated frequency of operation with / without I	oad 6 / 1200 min-1				
Contact ratings					





Coil data

Type RT424

RT444

RT424

RT424

RT424

RT424

RT424 RT424 Load

Rated coil voltage range DC coil	5110 VDC
AC coil	24230 VAC
Coil power DC coil	typ 400 mW
AC coil	typ 0,75 VA
Operative range	2
Coil insulation system according UL1446	class F

Coil versions, DC-coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDČ	VDC	VDČ	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

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

Cycles

100x10³

100x10³

100x10³

150x10³

30x10³

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

0,6

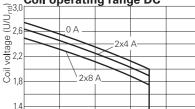
S0304-C

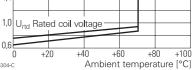
'Schrack' section.

Specifications subject to change.

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Coil operating range DC









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 coil without preenergization, at ambient temperature +23°C					

Insulation

Other data

RoHS - Directive 2002/95/EC

Ambient temperature range

Operate- / release time DC coil

Shock resistance (destruction)

Mounting distance DC / AC coils

Category of protection

Flammability class according to UL94 For WG version: GWFI to IEC 60335-1

Bounce time DC coil NO / NC contact Vibration resistance (function) NO / NC contact

Resistance to soldering heat flux-proof version

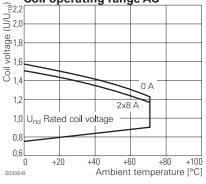
moulation			
Dielectric strength coil-contact circuit	5000 V _{rms}		
open contact circuit	1000 V _{rms}		
adjacent contact circuits	2500 V _{rms}		
Clearance / creepage coil-contact circuit	≥ 10 / 10 mm		
adjacent contact circuits	≥ 3 / 4 mm		
Material group of insulation parts	≥ Illa		
Tracking index 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	s basic		
Rated insulation voltage	250 V		
Pollution degree	3 2		
Rated voltage system	240 V	400 V	
Overvoltage category			

current > 0,2 A

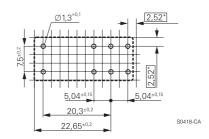
GWT to IEC 60335-1 current \leq 0,2 A

wash-tight version

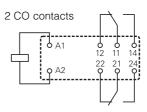
Coil operating range AC



PCB layout / terminal assignment Bottom view on solder pins



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





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Accessories

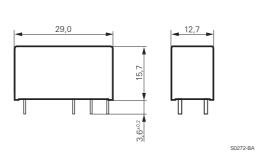
Relay weight

Packaging unit

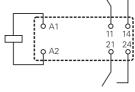
Mounting

For details see datasheet

Dimensions









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

compliant as per product date code 0413

V-0

> 850°C

> 650°C

> 750°C

-40...+70°C typ 7 / 2 ms

typ 1 / 3 ms 20 / 5 g, 30 ... 300 Hz 100 g

RTII - flux proof, RTIII - wash tight

pcb or on socket

0 / 2.5 mm 270°C / 10 s

260°C / 5 s

13 g 20 / 500 pcs

accessories R1

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

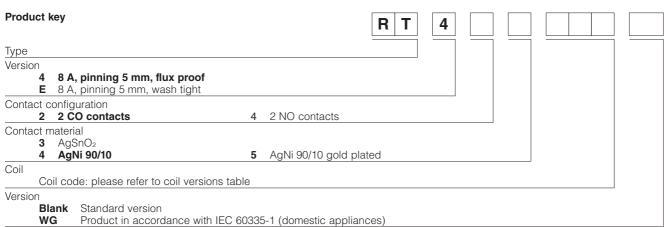
Specifications subject to change.



General Purpose Relays



Power PCB Relay RT2 (Continued)



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

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