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RTE24012F

TE Connectivity / Schrack

General Purpose Relays DPDT 8A 12VDC

Any questions, please feel free to contact us. info@kaimte.com



Power PCB Relay RT2 DC and AC (for global markets)

- 2 pole 8A, 2 form C (CO) or 2 form A (NO) contacts
- **■** DC or AC coil
- 5kV/10mm coil-contact, reinforced insulation
- Ambient temperature up to 85°C
- WG version: product in accordance to IEC60335-1
- Reflow version: for THR (Through-Hole Reflow) soldering process





Typical applications

Boiler control, timers, garage door control, POS automation, interface modules.

Approvals

VDE Cert. No. 40007571, UL E214025, cCSAus 1142018

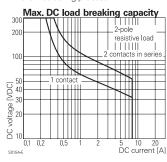
Technical data of approved types on request

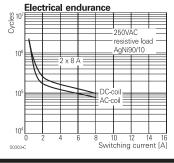
Contact Data	
Contact arrangement	2 form C (CO) or 2 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	8A, UL: 10A
Limiting continuous current	8A, UL: 10A
Limiting making current, max. 4s, duty	y factor 10% 15A
Breaking capacity max.	2000VA
Contact material	AgNi 90/10, AgNi 90/10 gold plated,
	AgSnO ₂
Frequency of operation, with/without	load
DC coil	360/72000h ⁻¹
AC coil	360/36000h ⁻¹
Operate/release time max., DC coil	8/6ms
Bounce time max., DC coil, form A/fo	rm B 4/10ms
Electrical endurance	see electrical endurance graph ¹⁾

Contact ra	tings
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Contact rating	5		
Туре	Contact	Load	Cycles
IEC 61810			
RT424 DC coil	C (CO)	8A, 250VAC, cosφ=1, 85°C	10x10 ³
RT444 AC coil	A (NO)	8A, 250VAC, cosφ=1, 70°C	50x10 ³
RT424 AC coil	C (CO)	8A, 250VAC, cosφ=1, 70°C	30x10 ³
UL 508			
RT424 DC coil	A/B (NO/NC)	10A, 250VAC, gen. purpose, 85°C	20x10 ³
RT424 DC coil	A/B (NO/NC)	1/2hp, 240VAC, 85°C	1x10 ³
RT424 DC coil	A/B (NO/NC)	Pilot duty, B300, R300, 85°C	6x10 ³
EN60947-5-1			
RTE24 DC coil	A/B (NO/NC)	AC15, 250VAC, 3A	6.050
RTE24 DC coil	A/B (NO/NC)	DC13, 24VDC, 2A	6.050
RTE24 DC coil	A/B (NO/NC)	DC13, 250VDC, 0.2A	6.050
EN60730-1			
RT424 DC coil	A/B (NO/NC)	6(2)A, 250VAC, 85°C	100x10 ³

¹⁾ For reflow solderable versions: actual contact performance may be influenced by the reflow soldering process.





Contact Data (continued)	
Mechanical endurance	
DC coil	>30x10 ⁶ operations
DC coil, reflow version	>10x10 ⁶ operations
AC coil	>5x10 ⁶ operations
AC coil, reflow version	>2x10 ⁶ operations

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

Coil versions, DC coil

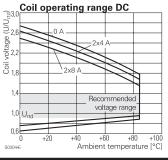
	, ,				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{2)}$	mW
005	5	3.5	0.5	62	403
006	6	4.2	0.6	90	400
009	9	6.3	0.9	200	400
012	12	8.4	1.2	360	400
024	24	16.8	2.4	1440	400
048	48	33.6	4.8	5520	417
060	60	42.0	6.0	8570 ²⁾	420
110	110	77.0	11.0	288002)	420

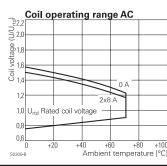
²⁾ Coil resistance $\pm 12\%$. All figures are given for coil without pre-energization, at ambient temperature $\pm 23\%$ C. Other coil voltages on request.

Coil versions, AC coil 50Hz

OOII VCIO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11 001 12			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VAC	VAC	VAC	$\Omega \pm 15\%^{3)}$	VA
524	24	18.0	3.6	350 ³⁾	0.76
615	115	86.3	17.3	8100	0.76
620	120	90.0	18.0	8800	0.75
700	200	150.0	30.0	24350	0.76
730	230	172.5	34.5	32500	0.74

³⁾ Coil resistance $\pm 10\%$. All figures are given for coil without pre-energization, at ambient temperature $\pm 23^{\circ}$ C, 50Hz. Other coil voltages on request.







Power PCB Relay RT2 DC and AC (for global markets) (Continued)

Insulation Data	
Initial dielectric strength	
between open contacts	1000V _{ms}
between contact and coil	5000V _{ms}
between adjacent contacts	2500V_ms
Clearance/creepage	***************************************
between contact and coil	≥10/10mm
between adjacent contacts	≥3/4mm
Material group of insulation parts	Illa
Tracking index of relay base	PTI 250V
reflow version	PTI 175V

0	th	ner	D	ata

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

Resistance to heat and fire	
MG version or reflow version	٦r

according EN60335, par30 Ambient temperature

DC coil -40 to 85°C -40 to 70°C AC coil AgSnO₂ contacts -40 to 70°C

Category of environmental protection, IEC 61810

standard version RTII - flux proof, RTIII - wash tight reflow version RTII - flux proof

Vibration resistance (functional),

form A/form B contact, 30 to 300Hz 20g/5g Shock resistance (destructive) 100g

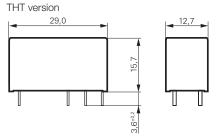
PCB-THT, plug-in
PCB-THR
≥2.5mm
13g
60068-2-20
270°C/10s
260°C/5s
forced gas convection 4) or
vapour phase 5)
according EN61730
tube/20pcs., box/500pcs.

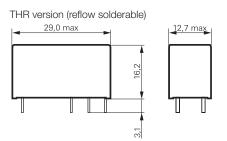
⁴⁾ infrared heating not allowed. 5) recommended fluid LS/230.

Accessories

For details see datasheet Accessories Industrial Power Relay RT 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.

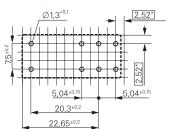
Dimensions





PCB layout / terminal assignment

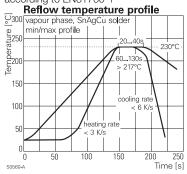
Bottom view on solder pins

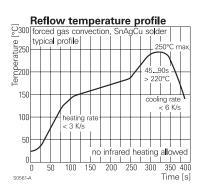


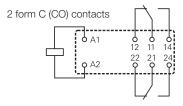
*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used

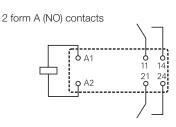
Process conditions for Reflow soldering

according to EN61760-1



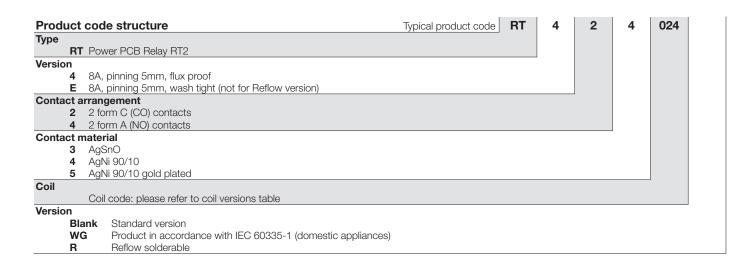








Power PCB Relay RT2 DC and AC (for global markets) (Continued)



Product code	Version	Contacts	Contact material	Coil	Version	Part number
RT423730	8A,	2 form C (CO)	AgSnO	230VAC	Standard	4-1393243-3
RT424005	pinning 5mm,	contacts	AgNi 90/10	5VDC		5-1393243-9
RT424006	flux proof			6VDC		6-1393243-1
RT424012	,			12VDC		6-1393243-3
RT424012WG					IEC60335-1 compliant	7-1415538-8
RT424024				24VDC	Standard	6-1393243-8
RT424024WG					IEC60335-1 compliant	7-1415538-7
RT424048				48VDC	Standard	7-1393243-0
RT424060				60VDC		7-1393243-3
RT424110				110VDC		7-1393243-5
RT424524				24VAC		7-1393243-6
RT424615				115VAC		7-1393243-8
RT424730				230VAC		7-1393243-9
RT425003			AgNi 90/10	3VDC		7-1415525-1
RT425005			gold plated	5VDC		8-1393243-0
RT425012				12VDC		8-1393243-2
RT425024				24VDC		8-1393243-5
RT444012		2 form A (NO)	AgNi 90/10	12VDC		9-1393243-7
RT444024		contacts	9	24VDC		9-1393243-9
RTE24005	8A.	2 form C (CO)		5VDC		1393243-1
RTE24006	pinning 5mm,	contacts		6VDC		1393243-2
RTE24012	wash tight			12VDC		1393243-4
RTE24024				24VDC		1-1393243-0
RTE24048				48VDC		1-1393243-1
RTE24110				110VDC		1-1393243-4
RTE24524				24VAC		1-1393243-5
RTE24615				115VAC		1-1393243-7
RTE24730				230VAC		1-1393243-8
RTE25005			AgNi 90/10	5VDC		1-1393243-9
RTE25012			gold plated	12VDC		2-1393243-0
RTE25024			3.1	24VDC		2-1393243-1
RTE25524						2-1393243-4
RTE43009		2 form A (NO)	AgSnO	9VDC		4-1415535-1
RTE44009		contacts	AgNi 90/10			3-1393243-1
RTE44730				230VAC		3-1393243-5

Catalog and product data is subject to the

the 'Definitions' section, available at

http://relays.te.com/definitions

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

Other types on request.

Mouser Electronics

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