

Power PCB Relay RT1

- 1 pole 12A/16A, 1 form C (CO) or 1 form A (NO) contact
- DC or AC coil
- 5kV/10mm coil-contact, reinforced insulation
- Ambient temperature 85°C (DC coil)
- **■** WG version: product in accordance to IEC 60335-1
- Reflow version: for THR (Through-Hole Reflow) soldering process



F0144-C



Typical applications

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

Approvals

VDE REG.-Nr. 6106, UL E214025, cCSAus 14385

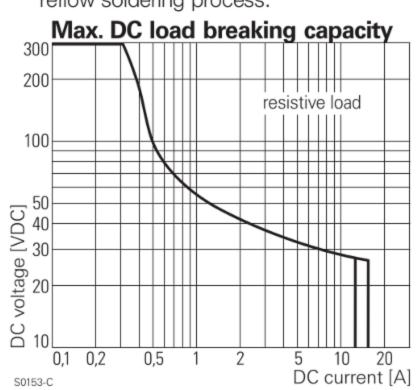
Technical data of approved types on request

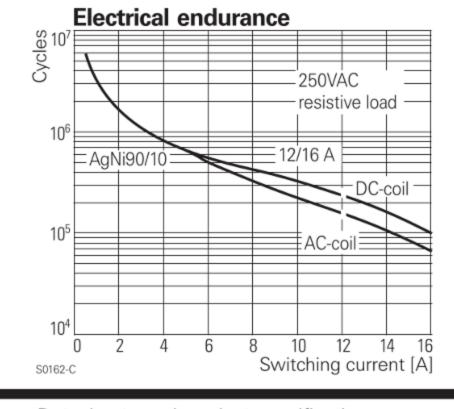
Contact Data	12A	16A			
Contact arrangement	1 form C (C	O) or 1 form A (NO)			
Rated voltage		250VAC			
Max. switching voltage		400VAC			
Rated current	12A	16A			
Limiting continuous current	12A	16A, UL: 20A			
Limiting making current					
max. 4s, duty factor 10%	25A	30A			
Breaking capacity max.	3000VA	4000VA			
Contact material	AgNi 90/10,	AgNi 90/10 gold plated			
Frequency of operation, with/without load					
DC coil	36	0/72000h ⁻¹			
AC coil	36	0/36000h ⁻¹			
Operate/release time max., DC coil		8/6ms			
Bounce time max., DC coil, form A/fo	rm B	4/6ms			
Electrical endurance	see electrica	al endurance graph ¹⁾			

Contact ratings

Contact rating	13		
Туре	Contact	Load	Cycles
IEC 61810			
RT314 DC-coil	A (NO)	16A, 250VAC, cosφ=1, 85°C	$30x10^3$
RT314 DC-coil	C (CO)	16A, 250VAC, cosφ=1, 85°C	$10x10^3$
RT314 DC-coil	A (NO)	10A, 400VAC, cosφ=1, 85°C	$150x10^3$
RT114 DC-coil	A (NO)	12A, 250VAC, cosφ=1, 85°C	$50x10^3$
RT114 AC-coil	A (NO)	12A, 250VAC, cosφ=1, 70°C	100x10 ³
UL 508			
RT314	A/B (NO/NC)	20A, 250VAC, general purpose, 85°	C 6x10 ³
RT334	A (NO)	16A, 250VAC, gen. purpose, 85°C	$50x10^3$
RT314	A (NO)	1hp, 240VAC, 40°C	1x10 ³
RT314	A (NO)	FLA/LRA, 4.5/13.1A, 480VAC, 70°C	100x10 ³
EN60947-5-1			
RT314 DC-coil	A/B (NO/NC)	2A, 24VDC, DC13	6.050
EN60730-1			
RT314 DC-coil	A (NO)	12(2)A, 250VAC, 85°C	100x10 ³

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





Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Contact Data (continued)	
Mechanical endurance	
DC coil	>30x10 ⁶ operations
AC coil	>10x10 ⁶ operations
AC coil, reflow version	>5x10 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
COII	AGI 2101121	$\mathbf{D}\mathbf{C}$	COII

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	28800 ²⁾	420

2) Coil resistance ±12%.

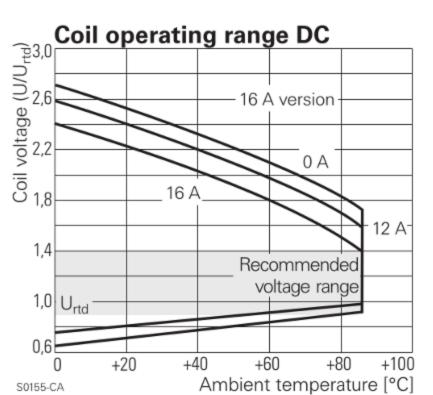
All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request.

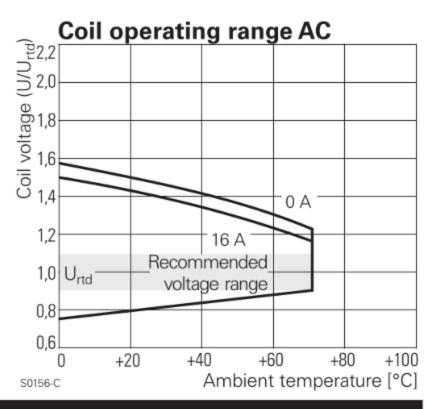
Coil versions, AC coil 50Hz

Con vers	sions, AC co	11 301 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 ±10%.

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





Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

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