

Power PCB Relay RT1 Inrush

- 1 pole 16 A, 1 CO or 1 NO contact
- For inrush peak currents up to 80 A
- Sensitive coil 400 mW
- 5 kV / 10 mm coil-contact
- Reinforced insulation
- Ambient temperature 85°C
- RoHS compliant (Directive 2002/95/EC) as per product date code 0413

Applications

Domestic appliances, heating control, lighting control



200

100

[20 40 30 30 30 voltage | G 10

S0333-C

F0177-B

stive load

5 10 20 DC current [A]

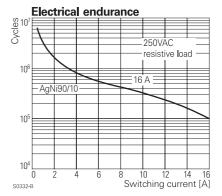
Approvals

REG.-Nr. 6106, **c 71 us** E214025 Technical data of approved types on reques

Contact data		
Contact configuration	1 CO or 1 NO	
Contact set	single contact	
Type of interruption	micro disconnection	
Rated current	16 A	
Rated voltage / max.switching voltage AC	250/400 VAC	
Limiting continuous current	UL: 20 A	
Maximum breaking capacity AC	4000 VA	
Limiting making capacity, max 4 s, duty factor 10%	30 A	
max 20 ms (incandescent lamps)	80 A	
Contact material	AgNi 90/10, AgSnO₂	
Mechanical endurance	> 30 x 10 ⁶ cycles	
Bated frequency of operation with / without load	6 / 1200 min ⁻¹	

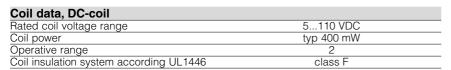
Contact ratings

Load	Cycles
1000 W incandescent lamp, 250 VAC, NO contact	9x10 ⁴
1000 W incandescent lamp, 250 VAC, NO contact	8x10 ⁴
16 A, 240 VAC, NO contact, 85°C, VDE/UL508	3x10 ⁴
16 A, 240 VAC, NO contact, 85°C, VDE/UL508	5x10 ⁴
21/3.5 A, 230 VAC, compressor, cosφ=0.5, NO contact	2,3x10 ⁵
	1000 W incandescent lamp, 250 VAC, NO contact 1000 W incandescent lamp, 250 VAC, NO contact 16 A, 240 VAC, NO contact, 85°C, VDE/UL508



0,5

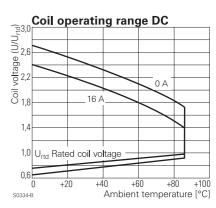
Max. DC load breaking capacity



Coil versions, DC-coil

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

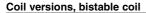
All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request





Power PCB Relay RT1 Inrush (Continued)

Coil data, bistable coils	1 coil	2 coils	
Rated coil voltage range	524 VDC		
Coil power	typ 400 mW	typ 600 mW	
Operative range		2	
Limiting voltage, % of rated coil voltage	120%	150%	
Minimum energization duration	30	ms	
Maximum energization duration	1 min at 4	< 10% DF	
Coil insulation system according UL1446	clas	ss F	



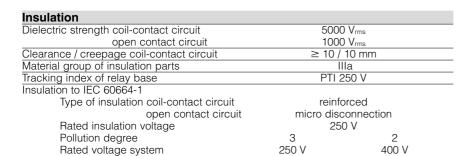
Coil	Rated	Operate	Reset	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDČ	VDČ	VDČ	Ω	mW
bistable,	1 coil				
A05	5	3.5	2.8	62±10%	403
A06	6	4.2	3.3	90±10%	400
A12	12	8.4	6.6	360±10%	400
A24	24	16.8	13.2	1440±10%	400
bistable,	2 coils				
F05	5	3.5	2.8	42±10%	595
F06	6	4.2	3.3	55±10%	655
F12	12	8.4	6.6	240±10%	600
F24	24	16.8	13.2	886±10%	650
A 11 C:					0000

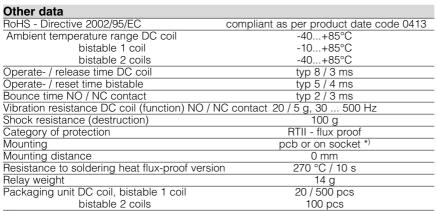
All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request

Coils - operation

Overvoltage category

Version	1 (coil		2 coils		
Coil terminals	A1	A2	A1	АЗ	A2	
Pull-in	+	-		+	-	
Reset	-	+	-	+		
Contact position not defined at delivery						

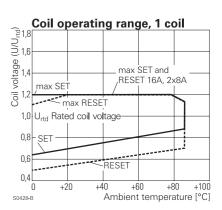


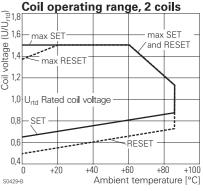


^{*)} socket available for 1 coil version only, see Accessories

Accessories

For details see datasheet Accessories Power Relay RT





Ш

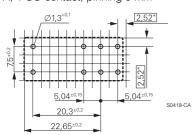


Power PCB Relay RT1 Inrush (Continued)

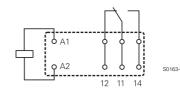
PCB layout / terminal assignment

Bottom view on solder pins

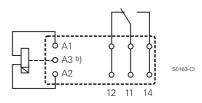
16 A, 1 CO contact, pinning 5 mm



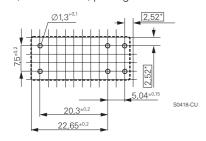
monostable version



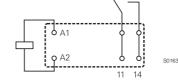
bistable version a)



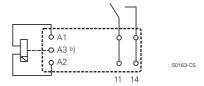
16 A, 1 NO contact, pinning 5 mm



monostable version



bistable version a)



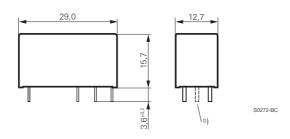
- a) Indicated contact position during or after coil energization with reset voltage.
- b) for 2 coil version only

3

R T

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

Dimensions







Contact material

Coil

1 CO contac AgNi 90/10

L	AgSnO ₂	

Coil code: please refer to coil versions table, preferred types in bold print

1 NO contact

Product key	Version	Contacts	Contact material	Coil	Part number
RT33K012	16 A	1 NO contact	AgNi 90/10	12 VDC	2-1393240-3
RT33K024	pinning 5 mm			24 VDC	2-1393240-4
RT33K048	, ,			48 VDC	2-1393240-5
RT33L012			AgSnO ₂	12 VDC	3-1393240-3
RT33L024				24 VDC	3-1393240-5
RT33L048				48 VDC	3-1393240-6

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for TE Connectivity manufacturer:

Other Similar products are found below:

D38999/24FJ4AN 570416-000 CLTEQ-M81CE-SSRELAY-4-20V 4-1195131-0 650069-000 SMD100-2 2029299-1 358838-000 CB-1022B-78 RM707012 RP410012 MMS42 1-640426-8 2EDL4CM DTS20W19-11PD-3028-LC RM202615 NC6-P104-06 MSPS103B DTS26F21-41HE-LC DTS26F21-41PE-LC DTS26F21-11SE-3028-LC 30DCB6 1932144-1 293545-4 LVR125S MS27466T25F4PB CKB-38-78010 TR04AI-TINELLOCKRING 1206SFF150F/63-2 D38999/20JB35HA TE1500A2R2J DTS24F25-29PC-3028-LC D38999/20WC8BB DTS24F19-11SC-3028-LC D38999/24WG11HA D38999/24WG11HN MS27467T21F11H DJT16E21-11HA MS27467T21F35J MS27467T21F11J MS27467T21F16H-LC MS27467T21F35H MS27467T21F41H-LC 1206SFH150F/24-2 RP330024 DJT16E21-11PA-LC DJT16E21-11AA MS27467T21B11JA