

## Power PCB Relay RT1 Inrush (Continued)

#### Coil Data (continued)

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

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

#### **Bistable coils - operation**

Version	1 coil 2 coils		6			
Coil terminals	A1	A2	A1	A3	A2	
Operate	+	-		+	-	
Reset	-	+	-	+		

# Contact position not defined at delivery





### Insulation Data

Initial dielectric strength	
between open contacts	1000V <sub>rms</sub>
between contact and coil	5000V <sub>rms</sub>
Clearance/creepage	
between contact and coil	≥10/10mm
Material group of insulation parts	Illa
Tracking index of relay base	PTI 250V

#### **Other Data**

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			
WG version	according EN60335-1		
Ambient temperature	-40 to 85°C		
Category of environmental protection			
IEC 61810	RTII - flux proof		
	RTIII - sealed		
Vibration resistance (functional),			
form A/form B contact, 30 to 500Hz	20/5g		
Shock resistance (destructive)	100g		
Terminal type	PCB-THT, plug-in <sup>2)</sup>		
Weight	14g		
Resistance to soldering heat THT, IEC	60068-2-20		
RTII	270°C/10s		
RTIII	260°C/5s		
Packaging/unit	tube/20 pcs., box/500 pcs.		
2) socket available for 1 coil version only, see A	ccessories		

# Accessories

 For details see datasheet
 Accessories Industrial Power Relay RT<sup>2</sup>

 Socket available for 1 coil version only.

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



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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at <a href="http://relays.te.com/definitions">http://relays.te.com/definitions</a>

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

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### Power PCB Relay RT1 Inrush (Continued)

### PCB layout / terminal assignment



Version Blank Standard version

WG Product in accordance to IEC 60335-1

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Product code	Version	Contact material	Coil	Coil	Part Number
RT31L012	1 form C (CO)	AgSnO <sub>2</sub>	Monostable	12VDC	7-1393239-3
RT31L024	16A, pinning 5mm			24VDC	7-1393239-5
RT31L048	flux proof			48VDC	7-1393239-6
RT33K012	1 form A (NO)	AgNi 90/10		12VDC	2-1393240-3
RT33K024	16A, pinning 5mm			24VDC	2-1393240-4
RT33KF12	flux proof		Bistable 2 coils	12VDC	1-1415540-1
RT33L012		AgSnO <sub>2</sub>	Monostable		3-1393240-3
RT33L012WG					2-1415538-2
RT33L024				24VDC	3-1393240-5
RT33LA12			Bistable 1 coil	12VDC	2-1393240-7
RT33LA24				24VDC	3-1415379-1
RT33LF12			Bistable 2 coils	12VDC	2-1393240-8
RTD1L005	1 form C (CO)	AgSnO <sub>2</sub>	Monostable	5VDC	1-1415537-7
RTD1L012	16a, pinning 5mm			12VDC	5-1393238-6
RTD1L024	sealed			24VDC	8-1415398-1

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