

Miniature Relay PT 900009

- 4 pole 6A, 4 form C (CO) contacts
- DC
- Switching performance up to 1500VA
- Relay height 29mm
- Mechanical indicator, optional LED and protection diode
- Manual test tab, optionally lockable
- White marking tabs

Typical applications
Universal use in control and automation



PT900009



Approvals
VDE REG.-Nr. 115719, UL E214025, Lloyds 00/20059(E2)
Technical data of approved types on request

Contact Data	PT5
Contact arrangement	4 form C 4 CO
Max. switching voltage	240VAC
Rated current	6A
Limiting making current, max.	12A
Limiting breaking current	6A
Limiting short-time current	300A/30ms
Switching power	1500VA
Contact material	AgNi90/10
Min. recommended contact load	12V at 10mA
Initial voltage drop	30mV at 100mA/6VDC
Frequency of operation with/without load	360/36000h ⁻¹
Operate time typ., DC coil	15ms
Release time typ., DC coil, without/with PD	10/18ms
Bounce time typ., DC coil, form A/form B	6/8ms

Type	Contact	Load	Cycles
IEC 61810			
PT 5 DC/AC coil	C (CO)	6A, 250VAC, cosφ=1, 70°C	100x10 ³

Contact Data (continued)

Type	Contact	Load	Cycles
UL 508			
PT 5	C (CO)	6A, 250VAC, general purpose, 70°C	6.000
PT 5	C (CO)	6A, 250VAC, resistive, 70°C	100x10 ³
PT 5	A (NO) of C (CO)	6A, 250VAC, resistive, 70°C	100x10 ³
PT 5	B (NC) of C (CO)	6A, 250VAC, resistive, 70°C	100x10 ³
EN60947-4-1			
PT 5	A (NO) of C (CO)	250VAC, 3A, AC3, same polarity 70°C	
PT 5	A (NO) of C (CO)	230VAC, 1.7A, AC5b (400W lamp load), same polarity, 70°C	
Mechanical endurance			
DC coil			30x10 ⁶ operations

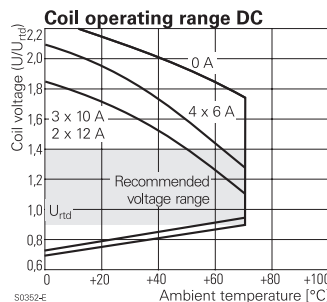
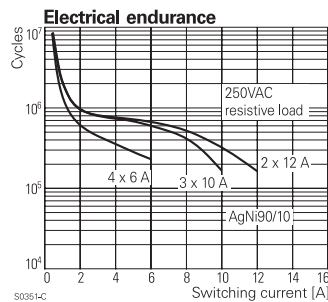
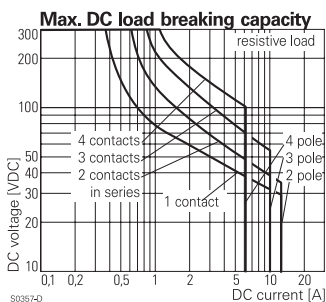
Coil Data	
Coil voltage range	6 to 220VDC
Operative range, IEC 61810	
DC coil	2
Coil insulation system according UL	class 155 (F)

Coil Data (continued)

Coil code	Rated voltage VDC	Operate voltage VDC ¹⁾	Release voltage VDC	Coil resistance Ω±12%	Rated coil power mW
220	220	131.9-165.0	22	64533	750

All figures are given for coil without pre-energization, at ambient temperature +23°C

1) mounting direction: terminals horizontally (coil down)



Miniature Relay PT 900009 (Continued)

Insulation Data	PT5
Initial dielectric strength	
between open contacts	1200V _{rms}
between contact and coil	2500V _{rms}
between adjacent contacts	2000V _{rms}
Initial surge withstand voltage	
between contact and coil	5000V (1.2/50µs)
Clearance/creepage	
between contact and coil	≥4/4mm ≥4/4mm
between adjacent contacts	≥1.8/3.5mm
Material group of insulation parts	IIIa

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

Ambient temperature	-40 to +70°C
Cold storage, IEC 60068-2-1	-40°C/16h
Dry heat, IEC 60068-2-2	85°C/16h
Category of environmental protection IEC 61810	RTII - flux proof
Vibration resistance (functional), form A (NO)/form B (NC)	7/4g
Shock resistance (functional), form A (NO)/form B (NC)	20/5g
Terminal type	plug-in quick-connect
Cover retention, pull/push force	100/100N
Weight	30g
Mounting distance, for mounting on PCB	5mm
Resistance to soldering heat THT IEC 60068-2-20	270°C/10s
Packaging unit	10/250pcs.

Accessories

For details see datasheet [Accessories Miniature Relay PT](#)
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.

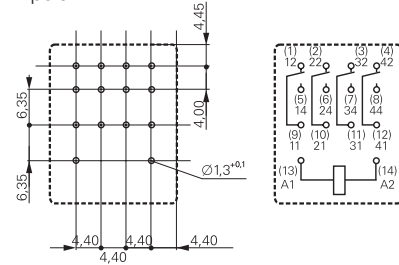
Product Sets

Complete sets consisting of a relay mounted on a socket see [Package PT](#)

PCB layout / terminal assignment

Bottom view on pins

4 pole

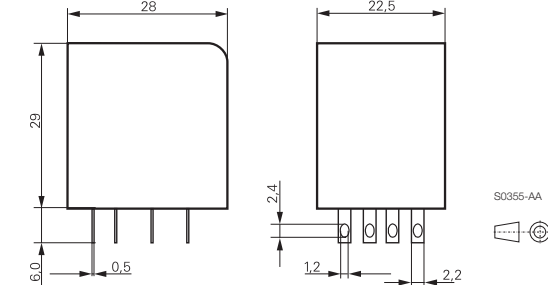


S0354-AA

S0354-AD

Dimensions

Solder- and plug-in terminals (standard version)



S0355-AA

Product code structure

Typical product code **PT 5 7 0 730**

Type	PT Miniature Relay PT					
Contact arrangement	<ul style="list-style-type: none"> 2 2 form C contacts (2 CO contacts) 3 3 form C contacts (3 CO contacts) 5 4 form C contacts (4 CO contacts) 					
Contact material	<ul style="list-style-type: none"> 7 AgNi 90/10, with test button 2 AgNi 90/10, without test button 8 AgNi 90/10 gold plated, with test button 3 AgNi 90/10 gold plated, without test button 					
Version	<ul style="list-style-type: none"> 0 Standard, 2.8mm quick connect term. 1 PCB terminals 					
Coil	Coil code: please refer to coil versions table					
Other types on request						

Product code	Cont. Config.	Cont. material	Version	Coil suppr.	Coil	Part number
PT900009	4 form C	AgNi 90/10	AMP 2.8	DC coil	220VDC	1-1415544-7