

Miniature Relay PT0

- 2 pole 7A, form C (CO) contacts
- DC or AC coil
- Relay height 29mm
- Mechanical indicator, optional LED
- Manual test tab, optionally lockable
- White marking tabs



F0191-B



Typical applications
Universal use in control and automation

Approvals

UL E214025

Technical data of approved types on request

Contact Data	PT0
Contact arrangement	2 form C 2 CO
Rated voltage	240VAC
Max. switching voltage	277VAC
Rated current	7A
Limiting making current, max. 20ms	12A
Limiting breaking current	7A
Limiting short-time current	300A/30ms
Switching power	1750VA
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 max., DC coil	20ms
Release time max., DC coil	10ms
Bounce time max., DC coil, form A/form B	6/10ms

Contact Data (continued)

Contact ratings

Type	Contact	Load	Cycles
UL 508			
PT 0	C (CO)	7A, 250VAC, general purpose, 70°C	6.000
Mechanical endurance			10x10 ⁶ operations

Coil Data

Coil voltage range	24VDC 24 to 230VAC
Operative range, IEC 61810	
DC coil, AC-coil 50Hz	2
AC coil 60 Hz at 70°C	90..110% of rated voltage
Coil insulation system according UL	class 155 (F)

Coil versions, DC coil, standard

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%^{1/2)}$	Rated coil power mW
024	24	18.0	2.4	777	741

Coil versions, DC coil with bipolar LED

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%^{1/2)}$	Rated coil +LED pwr. mW
L24	24	18.0	2.4	777	741+18

1) Coil resistance $\pm 12\%$, 2) Coil resistance $\pm 15\%$.

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

Coil versions, AC coil, 50/60Hz

Coil code	Rated voltage	Operate voltage 50/60Hz VAC	Release voltage 50/60Hz VAC	Coil resistance $\Omega \pm 10\%^{1/2)}$	Rated coil power 50/60Hz VA
524	R24	24	19.2/21.6	7.2	192
615	S15	115	92.0/103.5	34.5	4845 ¹⁾
730	T30	230	184/207	69.0	19465 ²⁾

1) Coil resistance $\pm 12\%$, 2) Coil resistance $\pm 15\%$

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

Insulation Data

Insulation Data	PT0
Initial dielectric strength	
between open contacts	1200V _{rms}
between contact and coil	2500V _{rms}
between adjacent contacts	2500V _{rms}
Initial surge withstand voltage	
between contact and coil	5000V (1.2/50 μ s)
Clearance/creepage	
between contact and coil	$\geq 3/4$ mm
Material group of insulation parts	IIIa
Pollution degree	2

Other Data

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

Ambient temperature	-40 to +70°C
Cold storage, IEC 60068-2-1	-40°C/16h
Dry heat, IEC 60068-2-2	70°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.

Miniature Relay PTO (Continued)

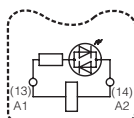
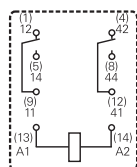
Terminal assignment

Bottom view on pins

2 pole

Circuit

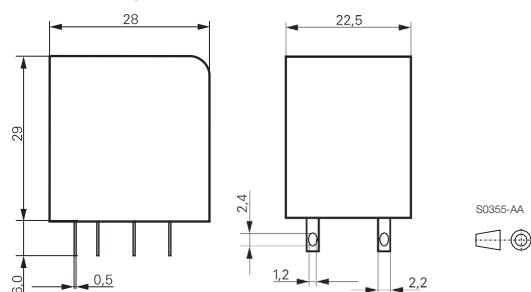
LED



S0354-AF

Dimensions

Solder- and plug-in terminals (standard version)



Product code structure

Typical product code

PT

0

7

0

730

Type

PT Miniature Relay PT

Contact arrangement

0 2 form C contacts (2 CO contacts)

Contact material

7 AgNi 90/10, with test button
2 AgNi 90/10, without test button

Version

0 Standard, 2.8mm quick connect term.

Coil

Coil code: please refer to coil versions table

Product Code	Cont. Config.	Cont. material	Version	Coil	Coil	Part Number
PT070024	2 form C	AgNi 90/10	AMP 2.8	DC coil	24VDC	3-1393154-0
PT070524	2 CO contacts	test button	connectors	AC coil	24VAC	3-1393154-2
PT070615					115VAC	3-1393154-4
PT070730					230VAC	3-1393154-6
PT070L24				DC coil+LED	24VDC	3-1393154-1
PT070R24				AC coil+LED	24VAC	3-1393154-3
PT070S15					115VAC	3-1393154-5
PT070T30					230VAC	3-1393154-7