

RELAY PACKAGE PT

GENERAL PURPOSE RELAYS
PRODUCT SETS

INTRODUCTION

TE offers panel mounted PT relays that come as a package for customers and are easy to mount. It offers a plug and play solution and suitable for field repairs. Available in different configurations, this PT relay and socket package can be used in a wide range of applications.



FEATURES

- Relay package consisting of PT relay, DIN-rail socket, plastic retaining clip, module and marking tag
- 2 pole 12 A, 3 pole 10 A or 4 pole 6 A
- DC- or AC coil
- Mechanical and electrical indicator
- Manual test tab, optionally lockable

APPLICATION

Panel Mounted relays can be used for multiple applications including some of the below highlighted

- PLC control panels
- Automation Panels
- Machine industry
- Elevator industry
- Building management

APPROVALS

- **Relay:** VDE Cert. No. 40009108, cULus E214025, Lloyds 00/20059
- **Socket:** VDE Cert. No. 40009108, cULus E135149

Note: Technical data of approved types on request



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CONTACT DATA

	PT2	PT3	PT5
Contact configuration	2 CO	3 CO	4 CO
Contact set	Single contact		
Type of interruption	Micro disconnection		
Rated voltage/ max. switching voltage AC	240/400VAC	240/400VAC	240/240VAC
Rated current	12 A	10 A	6 A
Limiting continuous current	See derating curve		
Maximum breaking capacity AC	3000 VA	2500 VA	1500 VA
Limiting breaking capacity, max. 20 ms	24 A	20 A	12 A
Contact material	AgNi90/10, AgNi90/10 gold plated		
Minimum contact load	12V/10mA, 20mV/1mA gold plated		
Rated frequency of operation with/ without load	6 / 600 min ⁻¹		

CONTACT RATINGS

For contact ratings see datasheet	Miniature Relay PT
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COIL DATA

Rated coil voltage range	
DC coil	6...220 VDC
AC coil	6...230 VAC
Operative range, IEC 61810	
DC coil, AC coil 50 Hz	2
AC coil 60 Hz at 70°C	90...110% of rated voltage

COIL VERSIONS, DC COIL

Coil code LED+PD*	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power mW
LB2	12	9.0	1.2	192	750
LC4	24	18.0	2.4	777	741

* Protection diode PD

COIL VERSIONS, AC COIL 50/60 Hz

Coil code LED	Rated voltage VAC	Operate voltage 50/60Hz VAC	Release voltage 50/60Hz VAC	Coil resistance Ω	Rated coil power 50/60Hz VA
RC4	24	19.2/21.6	7.2	192±10%	1.0/0.79
SB5	115	92.0/103.5	34.5	4845±12%	1.0/0.86
TD0	230	184.0/207.0	69.0	19465±15%	1.0/0.90

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

INSULATION

	PT2	PT3	PT5
Dielectric strength			
Coil-contact circuit	2500 V _{rms}	2500 V _{rms}	2500 V _{rms}
Open contact circuit	1200 V _{rms}	1200 V _{rms}	1200 V _{rms}
Adjacent contact circuits	2500 V _{rms}	2500 V _{rms}	2000 V _{rms}
Clearance / creepage			
Coil-contact circuit	≥ 4/4 mm	≥ 4/4 mm	≥ 4/4 mm
Adjacent contact circuits	≥ 3.5/9.5 mm	≥ 2.6/3.5 mm	≥ 1.8/3.5 mm
Material group of insulation parts	IIIa		
Insulation to IEC 60664-1			
Type of insulation			
Coil-contact circuit	Basic		
Open contact circuit	Micro disconnection		
Adjacent contact circuits	Basic		
Rated insulation voltage	250 V		
Rated voltage system	230/400 V	240 V	240 V

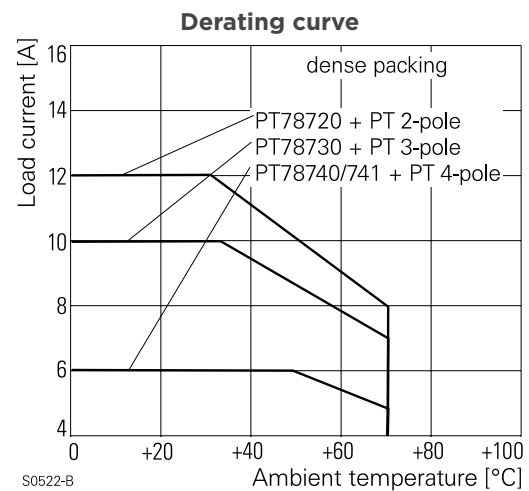
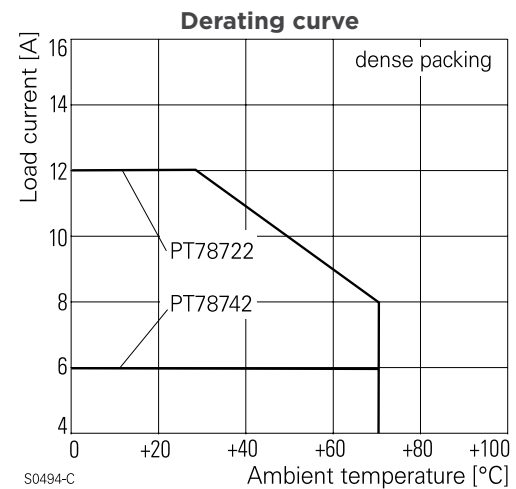
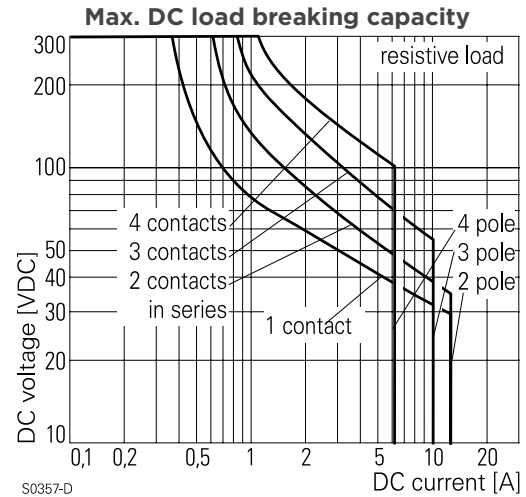
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OTHER DATA

	PT2	PT3	PT5
Mechanical endurance			
DC coil	30 x 10 ⁶ cycles		
AC coil	20 x 10 ⁶ cycles		
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 range			
For mounting/ Handling	-25...+70°C		
In operation	-40...+70°C		
Processing			
Terminals	screw		
Terminal screw torque acc. IEC 61984	0.5 Nm		
Max.	0.7 Nm		
Wire cross section			
Single wire	2 x 2.5 mm ²		
Fine wire	2 x 2.5 mm ²		
With bootlace crimp (DIN 46228/1)	2 x 1.5 mm ²		
Insertion cycles	A (10)		
Max. Insertion Force total	100 N		
Mounting distance	≥ 0 mm, dense packing of sockets		
Weight			
With PT78720/ PT78730/ PT78740	71 g	78 g	85 g
With PT78722/ PT78742	74 g	-	90 g
Packaging unit	5 pcs		

GRAPH

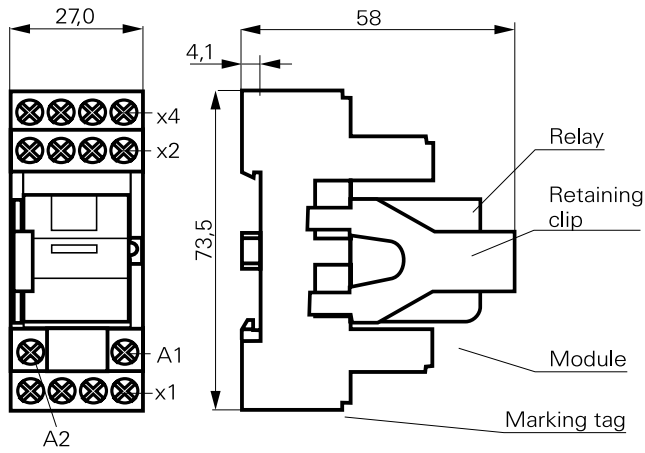


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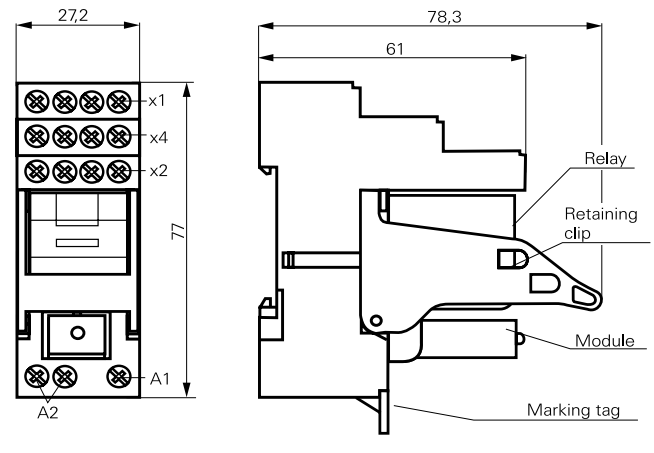
DIMENSIONS

Package with PT78 720 / PT78 730 / PT78 740



S0427-D

Package with PT78 722 / PT78 742



S0489-CI

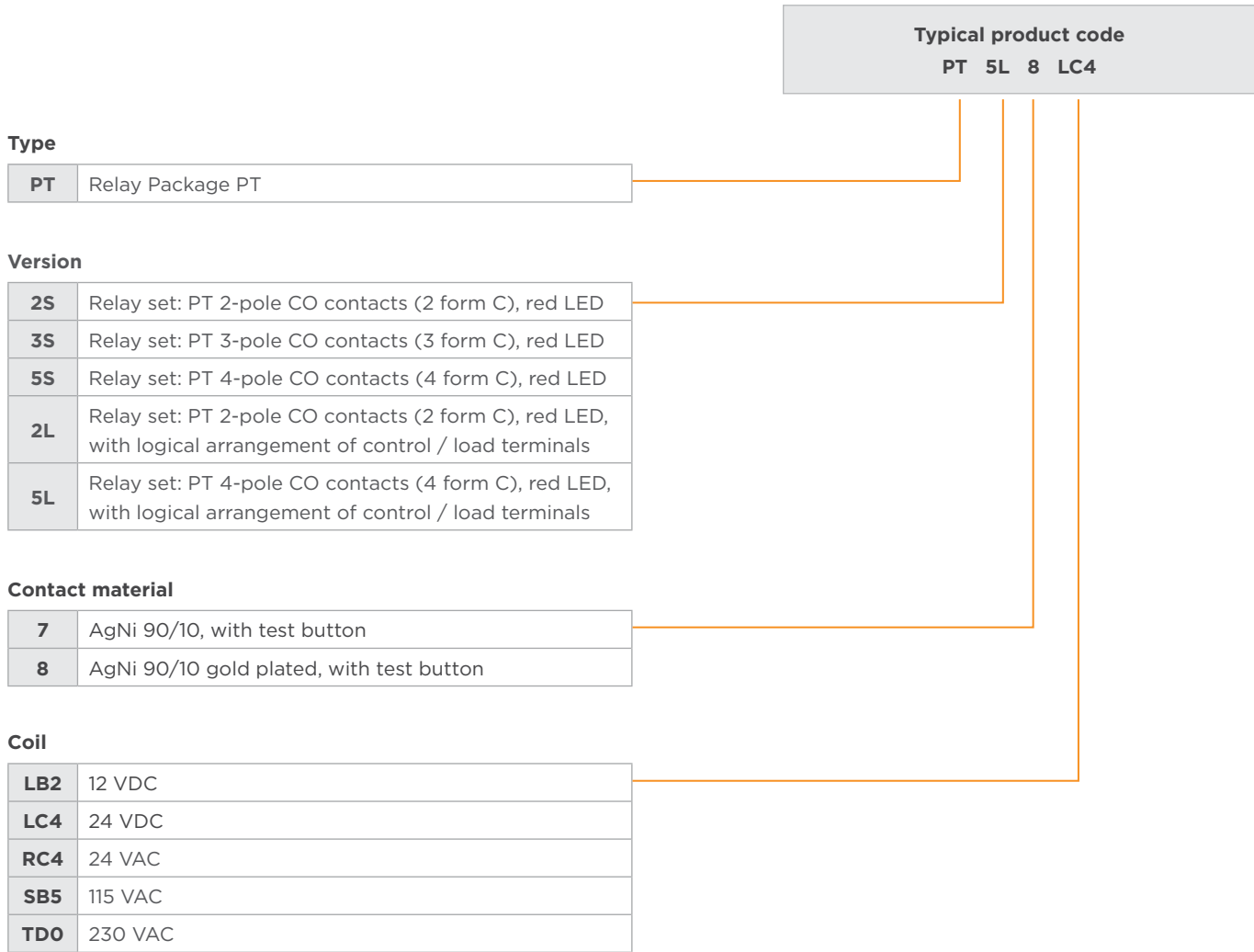
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PRODUCT INFORMATION

Product code	Socket	Retainer	Marking tag	Module	Relay	Coil	Part Number				
PT2S7LB2	PT78720	PT17016	PT17040	PTML0024	PT270012	12VDC	7-1415074-1				
PT2S7LC4					PT270024	24VDC	8-1415074-1				
PT2S7RC4					PT270R24	24VAC	5-1418074-1				
PT2S7SB5					PT270S15	115VAC	2-1415366-1				
PT2S7TD0					PT270T30	230VAC	6-1415074-1				
PT3S7LB2	PT78730			PT17016	PT17040	PTML0024	PT370012	12VDC	1-1415075-1		
PT3S7LC4							PT370024	24VDC	2-1415075-1		
PT3S7RC4						PT370R24	24VAC	9-1415074-1			
PT3S7SB5						PT370S15	115VAC	1-1415366-1			
PT3S7TD0						PT370T30	230VAC	1415075-1			
PT5S7LB2	PT78740					PT17016	PT17040	PTML0024	PT570012	12VDC	9-1415075-1
PT5S7LC4									PT570024	24VDC	1415076-1
PT5S7RC4								PT570R24	24VAC	7-1415075-1	
PT5S7SB5								PT570S15	115VAC	1415366-1	
PT5S7TD0								PT570T30	230VAC	8-1415075-1	
PT5S8LB2		PT17016	PT17040					PTML0024	PT580012	12VDC	5-1415075-1
PT5S8LC4									PT580024	24VDC	6-1415075-1
PT5S8RC4								PT580R24	24VAC	3-1415075-1	
PT5S8TD0								PT580T30	230VAC	4-1415075-1	
PT2L7LB2								PT78722	PT17016	PT17040	PTML0024
PT2L7LC4	PT270024			24VDC	8-1415534-9						
PT2L7RC4	PT270R24			24VAC	9-1415534-0						
PT2L7SB5	PT270S15			115VAC	9-1415534-2						
PT2L7TD0	PT270T30			230VAC	9-1415534-4						
PT5L7LB2	PT78742			PT17021	PT17040			PTML0024			PT570012
PT5L7LC4						PT570024	24VDC				1415535-9
PT5L7RC4						PT570R24	24VAC	1-1415535-1			
PT5L7SB5						PT570S15	115VAC	1-1415535-3			
PT5L7TD0						PT570T30	230VAC	1-1415535-5			
PT5L8LB2						PT17021	PT17040	PTML0024			PT580012
PT5L8LC4		PT580024	24VDC								1-1415535-8
PT5L8RC4		PT580R24	24VAC					1-1415535-9			
PT5L8TD0		PT580T30	230VAC					2-1415535-0			

PRODUCT CODE STRUCTURE



Other types on request

Notes:

1. Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.
2. 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>.
3. Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

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