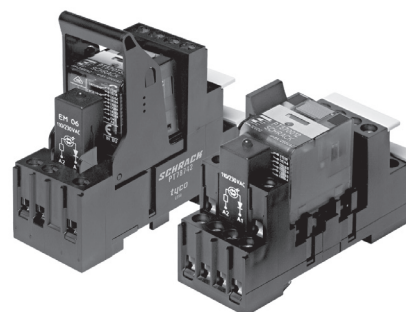


## Relay Package PT

- 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



F0274-D

### Approvals

Relay: VDE Cert. No. 40009108, cULus E214025, Lloyds 00/20059

Socket: VDE Cert. No. 40009108, cULus E135149

Technical data of approved types on request



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 <sup>-1</sup>		

### Contact ratings

For contact ratings see datasheet Miniature Relay PT

### 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

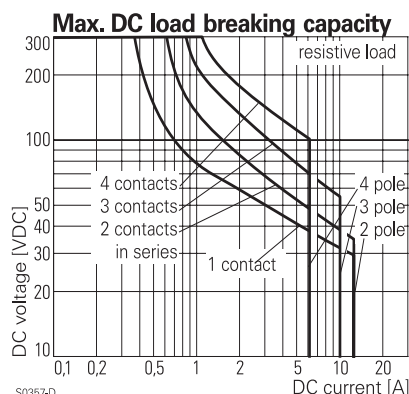
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power mW
LED+PD*)					
LB2	12	9.0	1.2	192	750
LC4	24	18.0	2.4	777	741

\*) Protection diode PD

### Coil versions, AC coil 50/60 Hz

Coil code	Rated voltage VAC	Operate voltage VAC	Release voltage VAC	Coil resistance $\Omega$	Rated coil power VA
LED		50/60 Hz	50/60 Hz		50/60 Hz
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
TDO	230	184.0/207.0	69.0	19465±15%	1.0/0.90

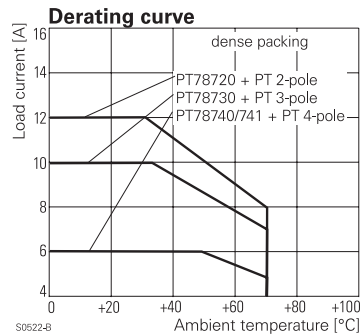
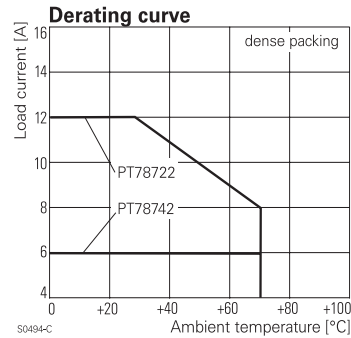
All figures are given for coil without preenergization, at ambient temperature +23°C.  
Other coil voltages on request.



Insulation	PT2	PT3	PT5
Dielectric strength			
coil-contact circuit	2500 V <sub>rms</sub>	2500 V <sub>rms</sub>	2500 V <sub>rms</sub>
open contact circuit	1200 V <sub>rms</sub>	1200 V <sub>rms</sub>	1200 V <sub>rms</sub>
adjacent contact circuits	2500 V <sub>rms</sub>	2500 V <sub>rms</sub>	2000 V <sub>rms</sub>
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 cont. circuits		basic	
Rated insulation voltage		250 V	
Pollution degree	2	2	2
Rated voltage system	230/400 V	240 V	240 V
Overvoltage category	III	III	III

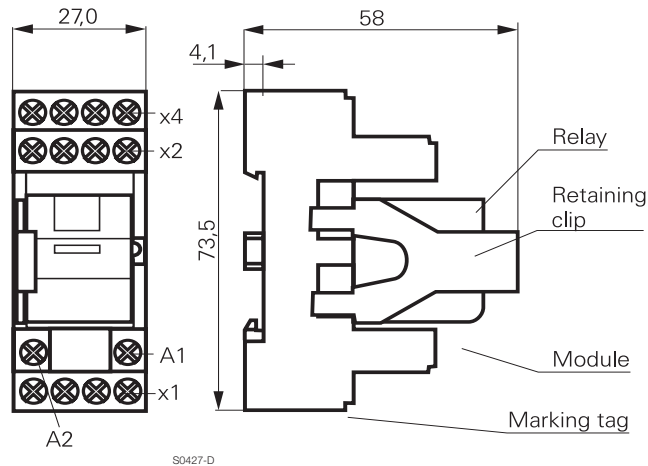
## Relay Package PT (Continued)

Other data	PT2	PT3	PT5
Mechanical endurance			
DC coil		30 x 10 <sup>6</sup> cycles	
AC coil		20 x 10 <sup>6</sup> cycles	
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <a href="http://www.te.com/customer-support/rohssupportcenter">www.te.com/customer-support/rohssupportcenter</a>			
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 <sup>2</sup>	
fine wire		2 x 2.5 mm <sup>2</sup>	
with bootlace crimp (DIN 46228/1)		2 x 1.5 mm <sup>2</sup>	
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	

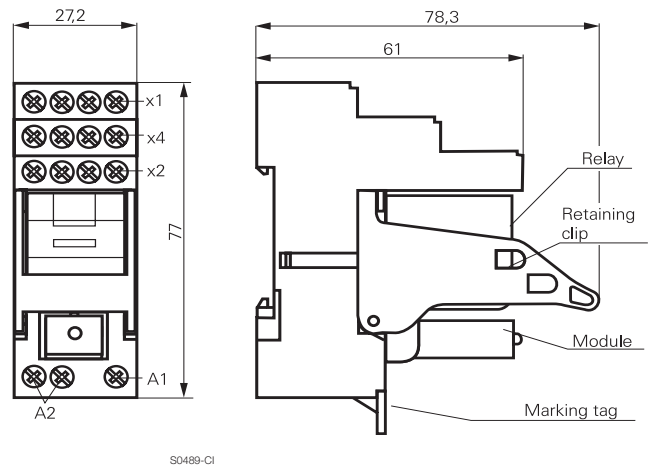


## Dimensions

Package with PT78 720 / PT78 730 / PT78 740



Package with PT78 722 / PT78 742



## Relay Package PT (Continued)

### Product code structure

Typical product code

**PT**

**5L**

**8**

**LC4**

#### Type

**PT** Relay Package PT

#### Version

**2S** Relay set: PT 2-pole CO contacts (2 form C), red LED

**3S** Relay set: PT 3-pole CO contacts (3 form C), red LED

**5S** Relay set: PT 4-pole CO contacts (4 form C), red LED

**2L** Relay set: PT 2-pole CO contacts (2 form C), red LED, with logical arrangement of control / load terminals

**5L** Relay set: PT 4-pole CO contacts (4 form C), red LED, with logical arrangement of control / load terminals

#### Contact material

**7** AgNi 90/10, with test button

**8** AgNi 90/10 gold plated, with test button

#### Coil

**LB2** 12 VDC

**RC4** 24 VAC

**TD0** 230 VAC

**LC4** 24 VDC

**SB5** 115 VAC

Other types on request

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				PTMV0524	PT270R24	24VAC	5-1418074-1
PT2S7SB5				PTMV0615	PT270S15	115VAC	2-1415366-1
PT2S7TD0				PTMV0730	PT270T30	230VAC	6-1415074-1
PT3S7LB2	PT78730			PTML0024	PT370012	12VDC	1-1415075-1
PT3S7LC4					PT370024	24VDC	2-1415075-1
PT3S7RC4				PTMV0524	PT370R24	24VAC	9-1415074-1
PT3S7SB5				PTMV0615	PT370S15	115VAC	1-1415366-1
PT3S7TD0				PTMV0730	PT370T30	230VAC	1415075-1
PT5S7LB2	PT78740			PTML0024	PT570012	12VDC	9-1415075-1
PT5S7LC4					PT570024	24VDC	1415076-1
PT5S7RC4				PTMV0524	PT570R24	24VAC	7-1415075-1
PT5S7SB5				PTMV0615	PT570S15	115VAC	1415366-1
PT5S7TD0				PTMV0730	PT570T30	230VAC	8-1415075-1
PT5S8LB2				PTML0024	PT580012	12VDC	5-1415075-1
PT5S8LC4					PT580024	24VDC	6-1415075-1
PT5S8RC4				PTMV0524	PT580R24	24VAC	3-1415075-1
PT5S8TD0				PTMV0730	PT580T30	230VAC	4-1415075-1
PT2L7LB2	PT78722	PT17021		PTML0024	PT270012	12VDC	8-1415534-7
PT2L7LC4					PT270024	24VDC	8-1415534-9
PT2L7RC4				PTMV0524	PT270R24	24VAC	9-1415534-0
PT2L7SB5				PTMV0615	PT270S15	115VAC	9-1415534-2
PT2L7TD0				PTMV0730	PT270T30	230VAC	9-1415534-4
PT5L7LB2	PT78742			PTML0024	PT570012	12VDC	1415535-7
PT5L7LC4					PT570024	24VDC	1415535-9
PT5L7RC4				PTMV0524	PT570R24	24VAC	1-1415535-1
PT5L7SB5				PTMV0615	PT570S15	115VAC	1-1415535-3
PT5L7TD0				PTMV0730	PT570T30	230VAC	1-1415535-5
PT5L8LB2				PTML0024	PT580012	12VDC	1-1415535-7
PT5L8LC4					PT580024	24VDC	1-1415535-8
PT5L8RC4				PTMV0524	PT580R24	24VAC	1-1415535-9
PT5L8TD0				PTMV0730	PT580T30	230VAC	2-1415535-0

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