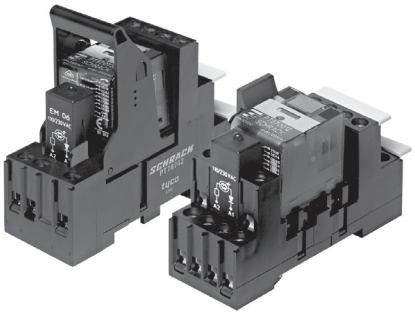
Relay Package PT

- **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**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Approvals

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

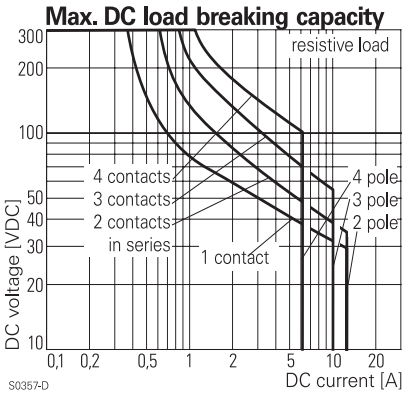
Socket: VDE Cert. No. 40009108, cULus E135149

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 continous 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



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 Ω±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 50/60 Hz VAC	Release voltage 50/60 Hz VAC	Coil resistance Ω	Rated coil power 50/60 Hz 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 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

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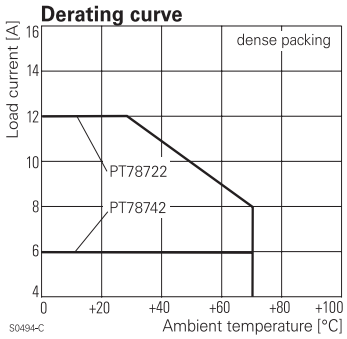
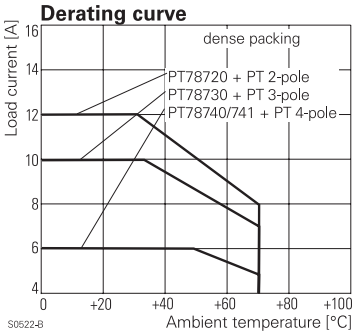
Relay Package PT (Continued)

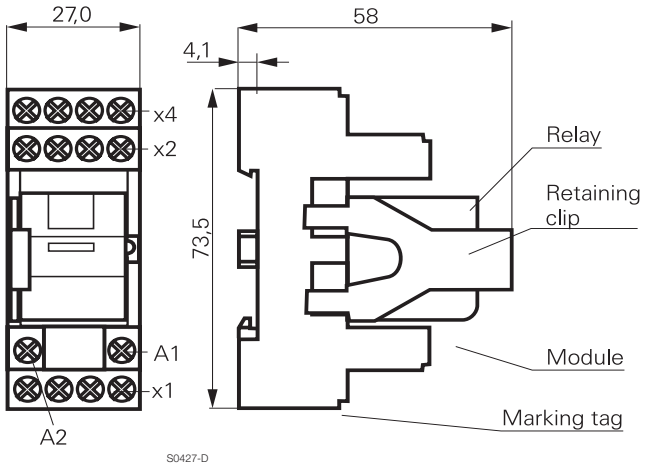
Other data	PT2	PT3	PT5
Mechanical endurance			
DC coil		30 x 10^6 cycles	
AC coil		20 x 10^6 cycles	
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter			
Ambient temperature range			
for 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	



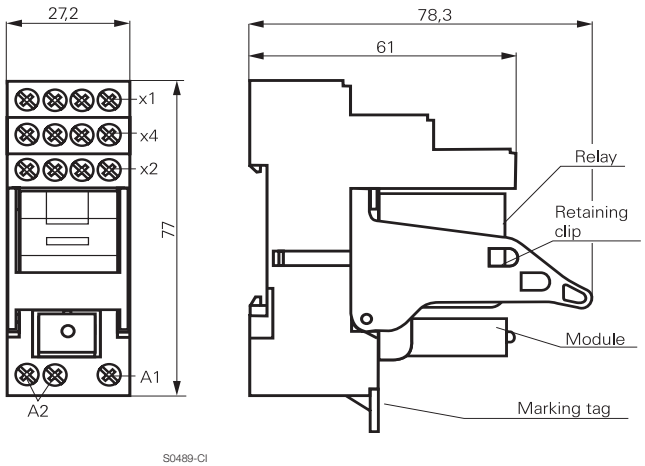


Dimensions

Package with PT78 720 / PT78 730 / PT78 740



Package with PT78 722 / PT78 742



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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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