

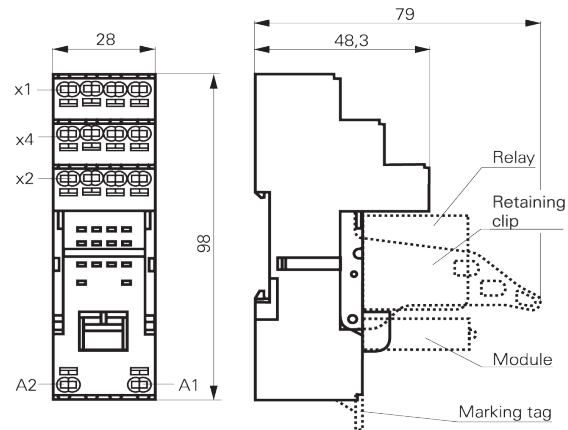
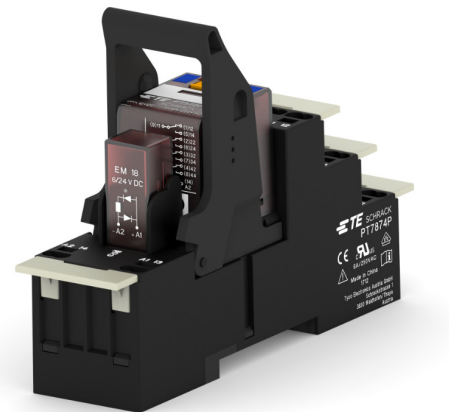
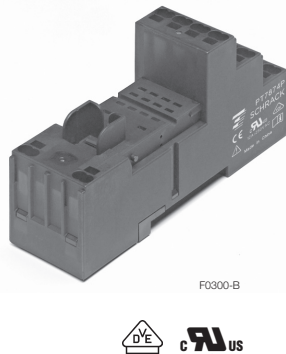
## Accessories Miniature Relay PT

- Easy replacement of relays on a densely packed DIN rail
- No reduction of protection class or creepage/clearance with plastic retainer
- Plug-in indicator- and protection modules
- Retainer clip with ejection function for relays of 29 mm height

### Premium socket with screwless terminals for DIN rail mounting

**PT 78 74P** Premium socket, logical terminal arrangement, 4 pole  
**PT 78 72P** Premium socket, logical terminal arrangement, 2 pole

- PT 2/4 pole 12/6 A
- Screwless Clamps
- Mounting of solid wires without tool
- Double Clamps per terminal
- Jumper links for interconnection
- Logical terminal arrangement



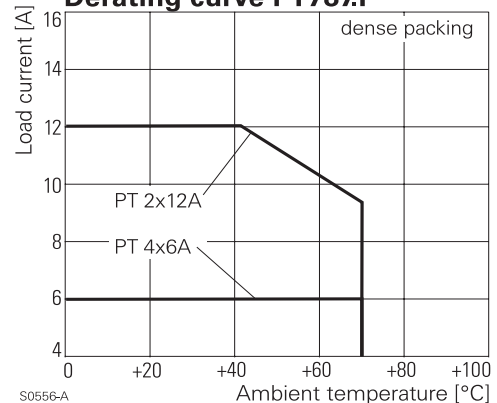
S0546-AE

### Approvals

VDE Cert. No. 40009108, cULus E135149

Technical data	2-pole	4-pole
Rated voltage/Max. switching voltage AC	240/400VAC	240 VAC
Rated current	12 A	6 A
Limiting continuous current	see derating curve	
Dielectric strength		
coil contact circuit	2500 V <sub>rms</sub>	2500 V <sub>rms</sub>
open contact circuit	1200 V <sub>rms</sub>	1200 V <sub>rms</sub>
adjacent contact circuits	2500 V <sub>rms</sub>	2000 V <sub>rms</sub>
Clearance / creepage		
coil contact circuit	≥ 4/4 mm	≥ 4/4 mm
adjacent contact circuits	≥ 3.5/9.5 mm	≥ 1.8/3.5 mm
Material group of insulation parts	IIIa	
Flammability class UL 94	V-0	
Insulation to IEC 60664-1		
Type of insulation coil-contact circuit	basic	
open contact circuit	functional	
adjacent contact circuits	basic	
Rated insulation voltage	250 V	
Pollution degree	2 <sup>1)</sup>	
Rated voltage system	230 / 400 V	
Overvoltage category	III	

### Derating curve PT787.P



S0556-A

1) with inserted relay pollution degree 1 in region of contact pins / socket inlets.

**Accessories Miniature Relay PT (Continued)**

Technical data (continued)	2-pole	4-pole
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <a href="http://www.te.com/customersupport/rohssupportcenter">www.te.com/customersupport/rohssupportcenter</a>		

Ambient temperature range	
for mounting/handling	-25...+70°C
in operation	-40...+70°C
Terminals	screwless
Wire strip length	12 mm
Wire cross section	
solid wire	1x0.75/1/1.5mm <sup>2</sup> 2x0.75/1mm <sup>2</sup> 2x1.5mm <sup>2</sup>
with stand. isolation (no oversize isolation)	2x1.5mm <sup>2</sup>
stranded wire	
without bootlace crimp	1x0.75/1/1.5mm <sup>2</sup> 2x0.75/1mm <sup>2</sup> 2x1.5mm <sup>2</sup>
without bootlace crimp with stand. isolation	2x1.5mm <sup>2</sup>
with bootlace crimp	1x0.75/1mm <sup>2</sup> 2x0.75mm <sup>2</sup>
with bootlace crimp without isolation	1x1.5mm <sup>2</sup>
or min 18 mm long	

For stranded wires with braids 0.05 mm or smaller the use of bootlace crimps is recommended. When using stranded wires without bootlace crimp the clamp must be opened during insertion.

Insertion cycles	A (10)
Max. Insertion Force total	100 N
Mounting distance	≥ 0, dense packing
Weight	44 g 60 g
Packaging unit	10 pcs

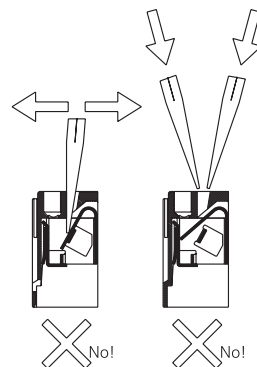
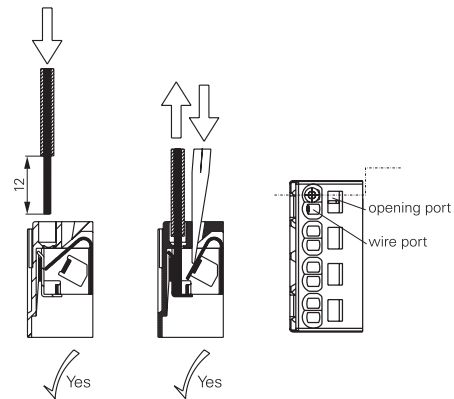
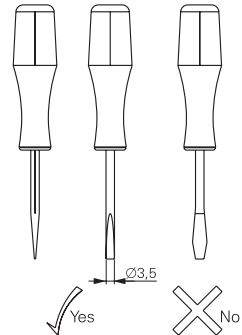
**Socket with screwless terminals for DIN rail mounting**

Type	Part Number
<b>PT 7872P</b> Premium socket, logical terminal arrangement Socket with screwless terminals 2 pole	1860100-1
<b>PT 7874P</b> Premium socket, logical terminal arrangement Socket with screwless terminals 4 pole	1860000-1

**Accessories for PT 78 72P, PT 78 74P**

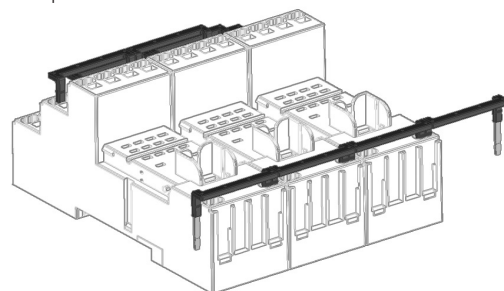
Type	Part Number
<b>PT 17 021</b> Plastic retaining clip, relay height 29 mm	2-1415526-1
<b>PT 28 800</b> Metal retaining clip PT, relay height 29 mm	5-1419111-9
<b>PT 17 040</b> Marking tag	6-1415037-1
<b>PT 17 0P1</b> Jumper link, max load 12 A	1860214-1

**How to use, Precautions**



S0553-A

**Jumper link**



F0295-A

When connecting more than 2 poles with staggered jumper bars the lower bars need to be stripped and shortened to an appropriate length to enable correct fitting.

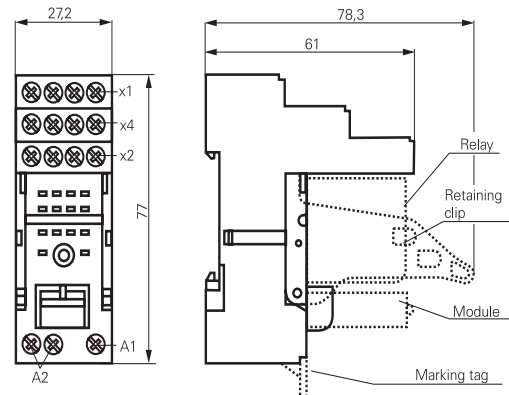
**Accessories Miniature Relay PT (Continued)**

**DIN-rail socket with screw type terminals  
PT78722/PT78742**

- Socket with logical arrangement of control/load terminals
- High quality rising clamp terminals
- Captive combination terminal screws
- Second A2 for easier looping
- Jumper bars for interconnection



F0264-C



S0489-CA

**Approvals**

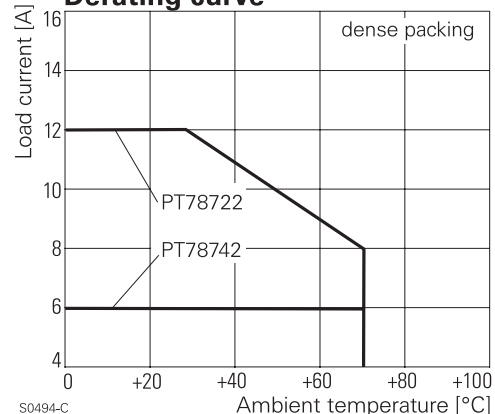
VDE Cert. No. 40009108, cULus E135149

Technical data	2-pole	4-pole
Rated voltage/Max. switching voltage AC	240/400VAC	240 VAC
Rated current	12 A	6 A
Limiting continuous current	see derating curve	
Dielectric strength		
coil contact circuit	2500 V <sub>rms</sub>	2500 V <sub>rms</sub>
open contact circuit	1200 V <sub>rms</sub>	1200 V <sub>rms</sub>
adjacent contact circuits	2500 V <sub>rms</sub>	2000 V <sub>rms</sub>
Clearance / creepage		
coil contact circuit	≥ 4/4 mm	≥ 4/4 mm
adjacent contact circuits	≥ 3.5/9.5 mm	≥ 1.8/3.5 mm
Material group of insulation parts	IIla	
Flammability class UL 94	V-0	
Insulation to IEC 60664-1		
Type of insulation coil-contact circuit	basic	
open contact circuit	functional	
adjacent contact circuits	basic	
Rated insulation voltage	250 V	
Pollution degree	2 <sup>1)</sup>	
Rated voltage system	230 / 400 V	
Overvoltage category	III	

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.te.com/customersupport/rohssupportcenter](http://www.te.com/customersupport/rohssupportcenter)

Ambient temperature range	-40...+70°C
Terminals	screw
Terminals screw torque acc. IEC 61984	0.5 Nm
max.	0.7 Nm
Terminal Screw size	M3
Wire strip length	8 mm
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, dense packing
Weight	44 g      60 g

**Derating curve**



S0494-C

1) with inserted relay pollution degree 1 in region of contact pin/socket inlets

**Accessories Miniature Relay PT (Continued)**

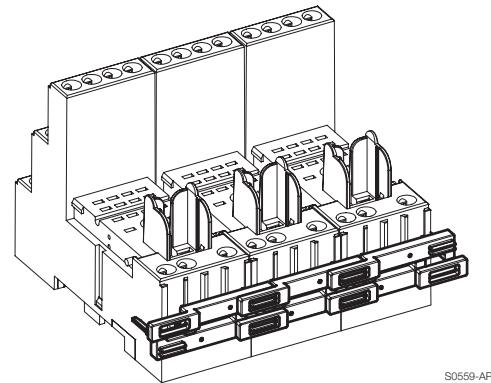
**DIN-rail socket with screw type terminals, In/Out arrangement**

Type	Part Number
<b>PT 78 722</b> DIN-rail socket with screw type terminals, In/Out arrangement 2 pole	1415526-1
<b>PT 78 742</b> DIN-rail socket with screw type terminals, In/Out arrangement 4 pole	1-1415526-1

**Accessories for PT 78 722, PT 78 742**

Type	Part Number
<b>PT 17 021</b> Plastic retaining clip, relay height 29 mm	2-1415526-1
<b>PT 28 800</b> Metal retaining clip PT, relay height 29 mm	5-1419111-9
<b>PT 17 040</b> Marking tag	6-1415037-1
<b>PT 17 0R6</b> Jumper bar, max load 12A for connection of up to 6 PT sockets	1860517-5

Jumper bar

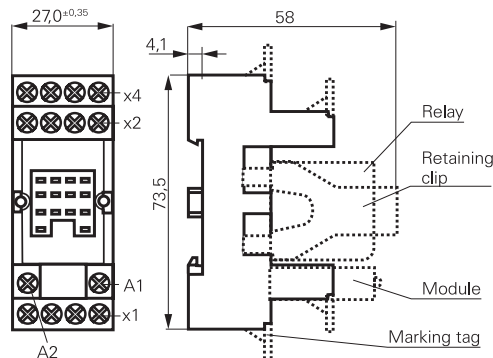


S0559-AP

**PT DIN-rail socket with screw type terminals PT78720/730/740/741**



F0234-C



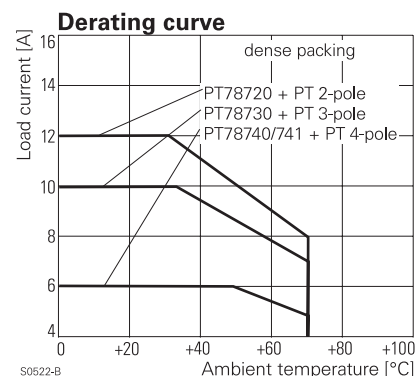
S0427-DB

S0427-CF

**Approvals**

VDE Cert. No. 40009108, cULus E135149

Technical data	2-pole	3-pole	4-pole
Rated voltage/Max. switching voltage AC	240/400VAC		
Rated current	12 A	10 A	6 A
Limiting continuous current	see derating curve		
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	≥3.5/9.5mm	≥2.6/3.5mm	≥1.8/3.5mm
Material group of insulation parts	IIIa		
Flammability class UL 94	V-0		
Insulation to IEC 60664-1			
Type of insulation			
coil-contact circuit	basic	basic	basic
open contact circuit	functional	functional	functional
adjacent contact circuits	basic	basic	functional
Rated insulation voltage	250 V		
Pollution degree	2		
Rated voltage system	230 / 400 V		
Overvoltage category	III		
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	-40...+70°C		



S0522-B

**Accessories Miniature Relay PT (Continued)**

Technical data (continued)	2-pole	3-pole	4-pole
Terminals		screw	
Terminal screw torque acc. IEC 61984		0.5 Nm	
max.		0.7 Nm	
Terminal Screw size		M3	
Wire strip length		8 mm	
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, dense packing	
Weight	41 g	48 g	55 g
Packaging unit		10 pcs	

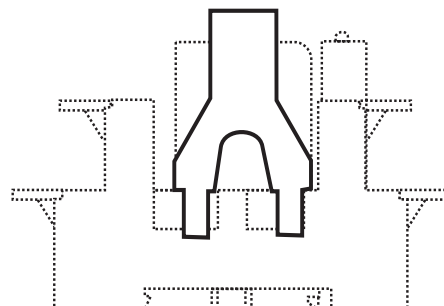
**DIN-rail socket with screw type terminals**

Type	Part Number
<b>PT 78 720</b> DIN-rail socket with screw type terminals, 2 pole	6-1415034-1
<b>PT 78 730</b> DIN-rail socket with screw type terminals, 3 pole	9-1415071-1
<b>PT 78 740</b> DIN-rail socket with screw type terminals, 4 pole	4-1415033-1
<b>PT 78 741</b> DIN-rail socket with screw type terminals, 4 pole, package with protection diode module A1+, A2-	5-1415034-1

**Accessories for PT 78 720, PT 78 730, PT 78 740, PT 78 741**

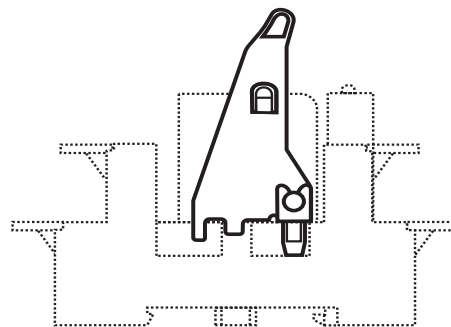
Type	Part Number
<b>PT 17 016</b> Plastic retaining clip PT, relay height 29 mm	5-1415037-1
<b>PT 17 024</b> Plastic retaining clip PT with ejecting func., relay height 29 mm	1816124-1
<b>PT 28 800</b> Metal retaining clip PT, relay height 29 mm	5-1419111-9
<b>PT 17 040</b> Marking tag	6-1415037-1
<b>PT 17 0R6</b> Jumper bar, max load 12A	

PT17 016



S0427-CH

PT17 024



S0427-CI

**Marking tags**

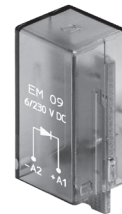
- White marking area 28 x 6 mm
- Snaps on socket in up to 4 positions

## Accessories Miniature Relay PT (Continued)

### LED- and Protection Modules for PT 78 72P, PT 78 74P, PT 78 722, PT 78 742, PT 78 720, PT 78 730, PT 78 740

Easy insertion of module into the socket  
Wiring in parallel to the coil

Type			Part Number
<b>PTM T0 0A0</b>	EM09	Protection diode (standard, A1+, A2-)	9-1415036-1
<b>PTM T0 0L0</b>	EM01	Protection diode (A1-, A2+)	1415037-1
<b>PTM U0 524</b>	EM02	RC-network 6...60 VAC	1-1415037-1
<b>PTM U0 730</b>	EM03	RC-network 110...230 VAC	2-1415037-1
<b>PTM V0 524</b>	EM04	Varistor 24 VAC	3-1415037-1
<b>PTM V0 615</b>	EM13	Varistor 115 VAC	6-1415365-1
<b>PTM V0 730</b>	EM05	Varistor 230 VAC	4-1415037-1
<b>PTM D0 730</b>	EM31	Residual current bypass RC 110...230 VAC	1415037-2
<b>PTM R0 730</b>	EM29	Residual current bypass resistor 110...230 VAC	1-1415539-2



### LED

<b>PTM L0 024</b>	EM18	red LED 6...24 VDC w. prot. diode (std, A1+, A2-)	5-1415036-1
<b>PTM G0 024</b>	EM12	green LED 6...24 VDC w. prot. diode (std, A1+, A2-)	2-1415036-1
<b>PTM L1 024</b>	EM08	red LED 6...24 VDC w. prot. diode (A1-, A2+)	8-1415036-1
<b>PTM L0 060</b>	EM16	red LED 24...60 VDC w. prot. diode (std, A1+, A2-)	5-1415539-3
<b>PTM G0 060</b>	EM25	green LED 24...60 VDC w. prot. diode (std, A1+, A2-)	7-1415539-7
<b>PTM L0 110</b>	EM19	red LED 60...110 VDC w. prot. diode (A1+, A2-)	2-1415392-1
<b>PTM G0 110</b>	EM26	green LED 60...110 VDC w. prot. diode (A1+, A2-)	1-1415539-7
<b>PTM L0 220</b>	EM27	red LED 110...220 VDC w. prot. diode (A1+, A2-)	1-1415539-4
<b>PTM G0 220</b>	EM28	green LED 110...220 VDC w. prot. diode (A1+, A2-)	1-1415539-6
<b>PTM L0 524</b>	EM07	red LED 6...24 VDC/VAC	6-1415036-1
<b>PTM G0 524</b>	EM11	green LED 6...24 VDC/VAC	3-1415036-1
<b>PTM L0 560</b>	EM14	red LED 24...60 VDC/VAC	1-1415539-3
<b>PTM G0 560</b>	EM30	green LED 24...60 VDC/VAC	1-1415539-5
<b>PTM L0 730</b>	EM06	red LED 110...230 VAC	7-1415036-1
<b>PTM G0 730</b>	EM10	green LED 110...230 VAC	4-1415036-1

### Relay Packages

Complete packages consisting of a relay mounted on a socket: see Relay Package PT

## Accessories Miniature Relay PT (Continued)

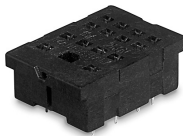
### PT sockets for PCB mount and with solder terminals

**PT 78 600**, socket with solder terminals, 4-pole



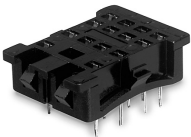
F0132-A

**PT 78 602, PT 78 603, PT 78604**,  
socket with PCB terminals, 2-, 3- and 4-pole

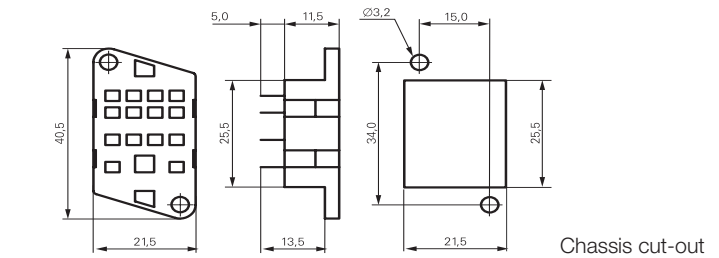


F0133-A

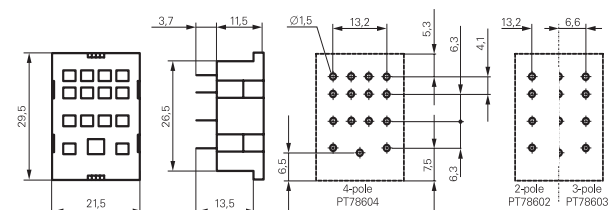
**PT 78 601**, socket with solder terminals, 4-pole



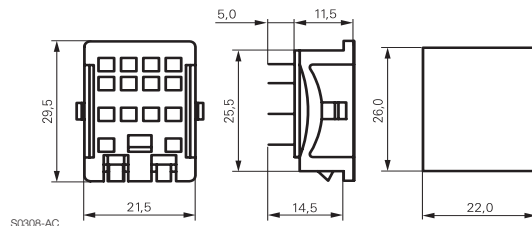
F0134-A



S0308-AA



S0308-BB



S0308-AC

Chassis cut-out

Technical data	2-pole	3-pole	4-pole
Rated voltage/max. switching voltage AC	240/400VAC		
Rated current	12 A	10 A	6 A
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	≥ 3.5/9.5mm	≥ 2.6/3.5mm	≥ 1.8/3.5mm
Material group of insulation parts	IIIa		
Insulation to IEC 60664-1			
Type of insulation			
coil-contact circuit	basic	basic	basic
open contact circuit	functional	functional	functional
adjacent contact circuits	basic	basic	functional
Rated insulation voltage		250 V	
Pollution degree		2	
Rated voltage system		230 / 400 V	
Overvoltage category		III	
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	-40...+80°C		
Terminals	pcb, solder terminals		
Insertion cycles	A (10)		
Max. Insertion Force total	100 N		
Mounting distance	≥ 0, dense packing		
Resistance to soldering heat	270°C / 10 s		
Weight	6 g	7 g	7 g
Packaging unit	25 pcs		

### PT sockets

Type	Part Number
<b>PT 78 600</b> Socket with solder terminals, 4 pole	4-1415043-1
<b>PT 78 602</b> Socket with PCB terminals, 2 pole	5-1415043-1
<b>PT 78 603</b> Socket with PCB terminals, 3 pole	1393162-5
<b>PT 78 604</b> Socket with PCB terminals, 4 pole	3-1415043-1
<b>PT 78 601</b> Socket with solder terminals, 4 pole	6-1415043-1

### Accessories for PT 78 600, PT 78 601, PT 78 602, PT 78 603, PT 78 604

Type	Part Number
<b>PT 28 802</b> Metal retaining clip PT, relay height 29 mm	1393162-1

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[PT17021](#) [PT28802](#) [PT78604](#) [PT78740](#) [PT17016](#) [PT78600](#) [PT78720](#) [PT78741](#) [PTML0024](#) [PT7874P](#)