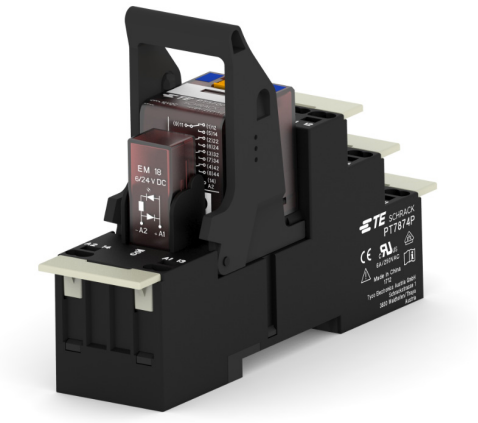
Accessories Miniature Relay PT

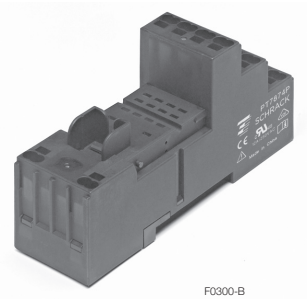
- **Easy replacement of relays on a densely packed DIN rail**
- **No reduction of protection class or creepage/clearance with plastic retainer**
- **Plug-in indicator- and protection modules**
- **Retainer clip with ejection function for relays of 29 mm height**

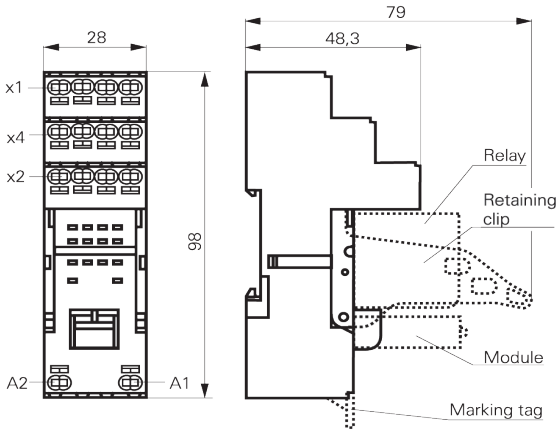


Premium socket with screwless terminals for DIN rail mounting

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**

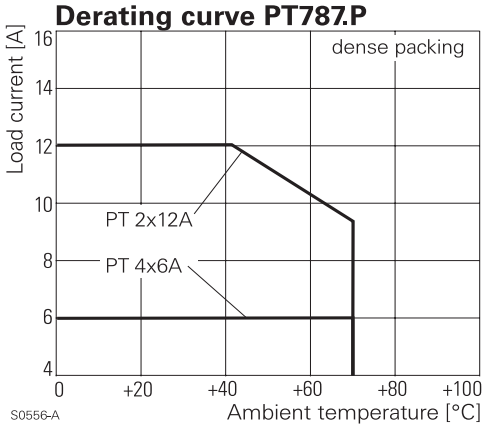




Approvals

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_{rms}	2500 V_{rms}
open contact circuit	1200 V_{rms}	1200 V_{rms}
adjacent contact circuits	2500 V_{rms}	2000 V_{rms}
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[1)]	
Rated voltage system	230 / 400 V	
Overvoltage category	III	



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

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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 www.te.com/customersupport/rohssupportcenter		
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	1x0.75/1/1.5mm²	
	2x0.75/1mm²	
with stand. isolation (no oversize isolation)	2x1.5mm²	
stranded wire		
without bootlace crimp	1x0.75/1/1.5mm²	
	2x0.75/1mm²	
without bootlace crimp with stand. isolation	2x1.5mm²	
with bootlace crimp	1x0.75/1mm²	
	2x0.75mm²	
with bootlace crimp without isolation or min 18 mm long	1x1.5mm²	

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	

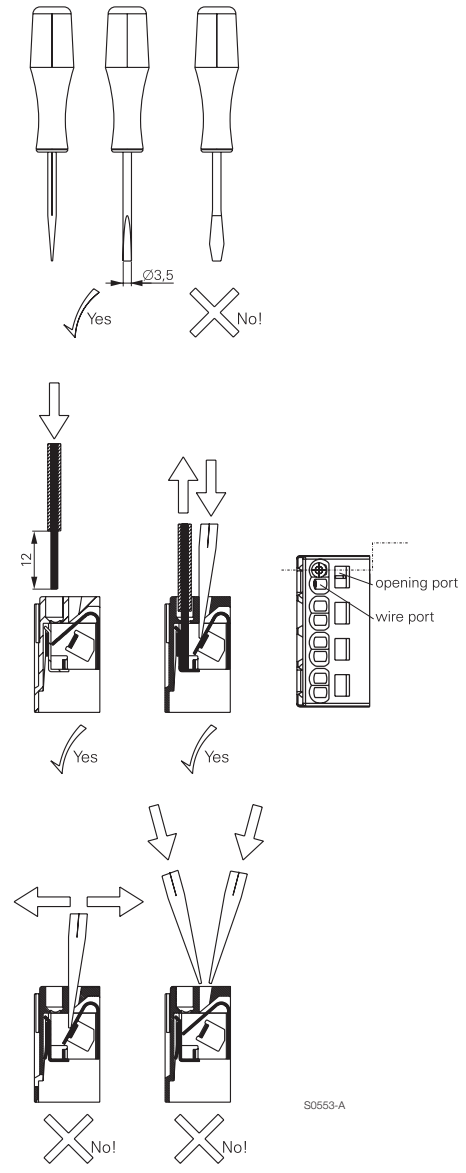
Socket with screwless terminals for DIN rail mounting

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

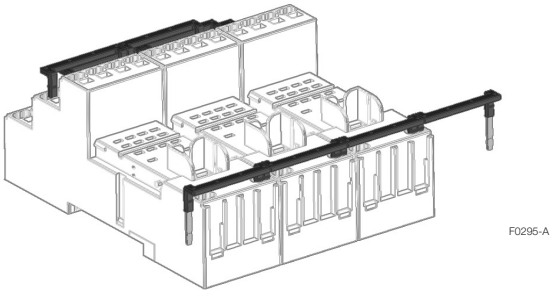
Accessories for PT 78 72P, PT 78 74P

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

How to use, Precautions



Jumper link



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.

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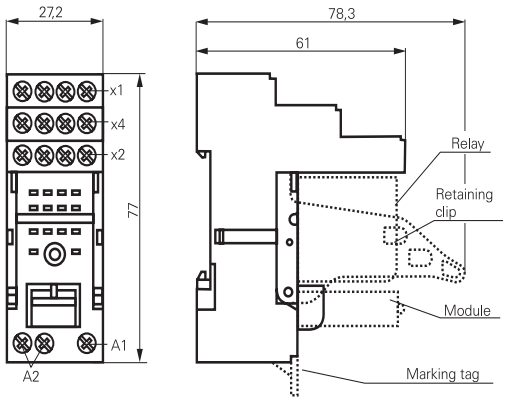
Accessories Miniature Relay PT (Continued)

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

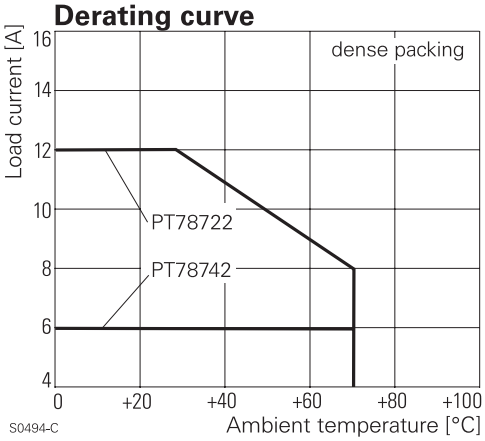
Approvals

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_{rms}	2500 V_{rms}
open contact circuit	1200 V_{rms}	1200 V_{rms}
adjacent contact circuits	2500 V_{rms}	2000 V_{rms}
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[1)]	
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		

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^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, 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

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Accessories Miniature Relay PT (Continued)

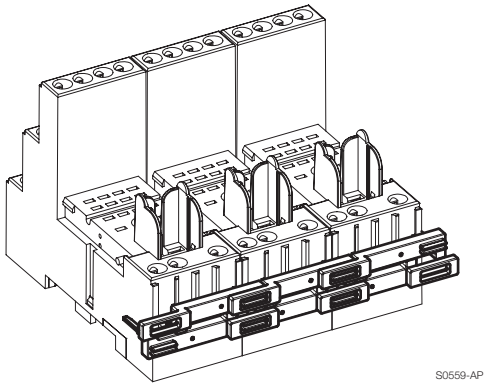
DIN-rail socket with screw type terminals, In/Out arrangement

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

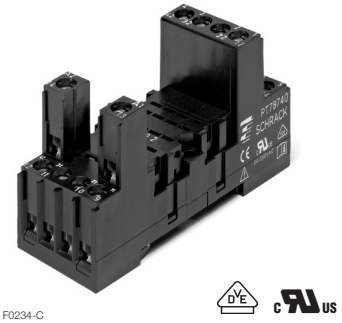
Accessories for PT 78 722, PT 78 742

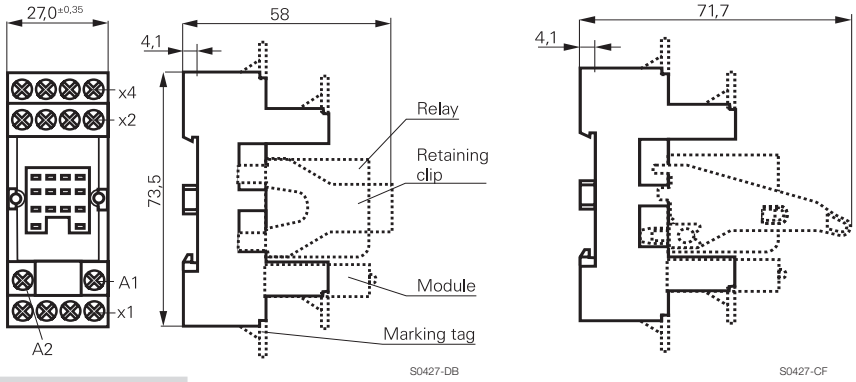
Type		Part Number
PT 17 021	Plastic retaining clip, relay height 29 mm	2-1415526-1
PT 28 800	Metal retaining clip PT, relay height 29 mm	5-1419111-9
PT 17 040	Marking tag	6-1415037-1
PT 17 0R6	Jumper bar, max load 12A for connection of up to 6 PT sockets	1860517-5

Jumper bar



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



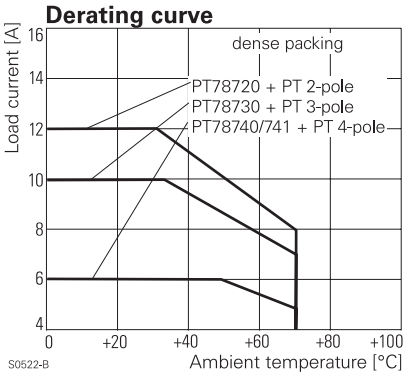


Approvals

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_{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	≥3.5/9.5mm	≥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 www.te.com/customersupport/rohssupportcenter			
Ambient temperature range		-40…+70°C	

Derating curve



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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 lenght		8 mm	
Wire cross section			
single wire		2 x 2.5 mm²	
fine wire		2 x 2.5 mm²	
with bootlace crimp (DIN 46228/1)		2 x 1.5 mm²	
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	

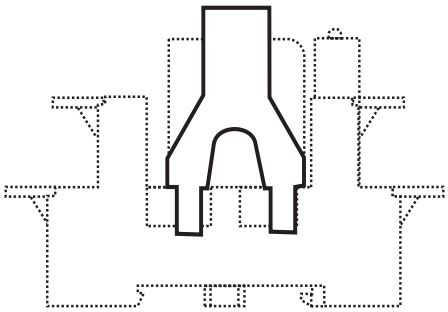
DIN-rail socket with screw type terminals

Type		Part Number
PT 78 720	DIN-rail socket with screw type terminals, 2 pole	6-1415034-1
PT 78 730	DIN-rail socket with screw type terminals, 3 pole	9-1415071-1
PT 78 740	DIN-rail socket with screw type terminals, 4 pole	4-1415033-1
PT 78 741	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

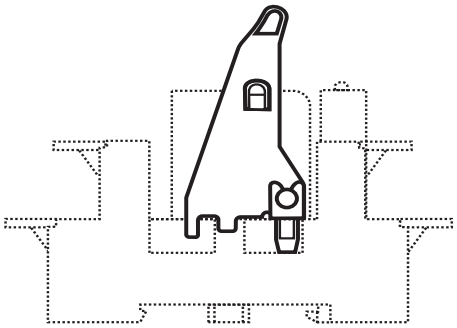
Type		Part Number
PT 17 016	Plastic retaining clip PT, relay height 29 mm	5-1415037-1
PT 17 024	Plastic retaining clip PT with ejecting func., relay height 29 mm	1816124-1
PT 28 800	Metal retaining clip PT, relay height 29 mm	5-1419111-9
PT 17 040	Marking tag	6-1415037-1
PT 17 0R6	Jumper bar, max load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

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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
PTM T0 0A0	EM09	Protection diode (standard, A1+,A2-)	9-1415036-1
PTM T0 0L0	EM01	Protection diode (A1-, A2+)	1415037-1
PTM U0 524	EM02	RC-network 6...60 VAC	1-1415037-1
PTM U0 730	EM03	RC-network 110...230 VAC	2-1415037-1
PTM V0 524	EM04	Varistor 24 VAC	3-1415037-1
PTM V0 615	EM13	Varistor 115 VAC	6-1415365-1
PTM V0 730	EM05	Varistor 230 VAC	4-1415037-1
PTM D0 730	EM31	Residual current bypass RC 110…230 VAC	1415037-2
PTM R0 730	EM29	Residual current bypass resistor 110…230 VAC	1-1415539-2
LED			
PTM L0 024	EM18	red LED 6…24 VDC w. prot. diode (std, A1+, A2-)	5-1415036-1
PTM G0 024	EM12	green LED 6…24 VDC w. prot. diode (std, A1+, A2-)	2-1415036-1
PTM L1 024	EM08	red LED 6…24 VDC w. prot. diode (A1-, A2+)	8-1415036-1
PTM L0 060	EM16	red LED 24…60 VDC w. prot. diode (std, A1+, A2-)	5-1415539-3
PTM G0 060	EM25	green LED 24…60 VDC w. prot. diode (std, A1+, A2-)	7-1415539-7
PTM L0 110	EM19	red LED 60…110 VDC w. prot. diode (A1+, A2-)	2-1415392-1
PTM G0 110	EM26	green LED 60…110 VDC w. prot. diode (A1+, A2-)	1-1415539-7
PTM L0 220	EM27	red LED 110…220 VDC w. prot. diode (A1+, A2-)	1-1415539-4
PTM G0 220	EM28	green LED 110…220 VDC w. prot. diode (A1+, A2-)	1-1415539-6
PTM L0 524	EM07	red LED 6...24 VDC/VAC	6-1415036-1
PTM G0 524	EM11	green LED 6...24 VDC/VAC	3-1415036-1
PTM L0 560	EM14	red LED 24...60 VDC/VAC	1-1415539-3
PTM G0 560	EM30	green LED 24...60 VDC/VAC	1-1415539-5
PTM L0 730	EM06	red LED 110...230 VAC	7-1415036-1
PTM G0 730	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

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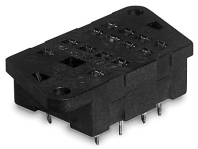
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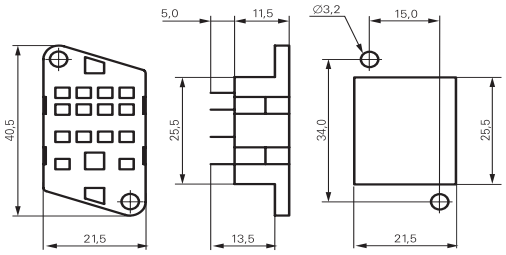
Accessories Miniature Relay PT (Continued)

PT sockets for PCB mount and with solder terminals

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



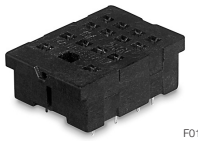
F0132-A



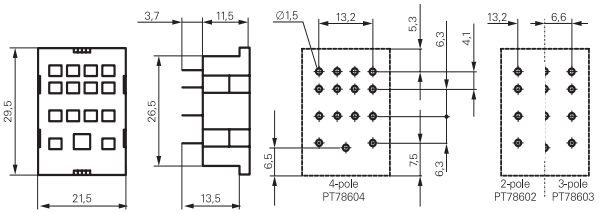
Chassis cut-out

S0308-AA

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

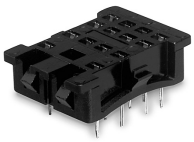


F0133-A

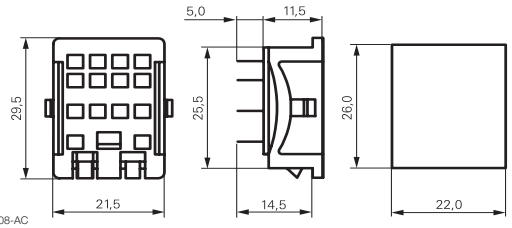


S0308-BB

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



F0134-A



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_{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	≥3.5/9.5mm	≥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 www.te.com/customersupport/rohssupportcenter			

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
PT 78 600	Socket with solder terminals, 4 pole	4-1415043-1
PT 78 602	Socket with PCB terminals, 2 pole	5-1415043-1
PT 78 603	Socket with PCB terminals, 3 pole	1393162-5
PT 78 604	Socket with PCB terminals, 4 pole	3-1415043-1
PT 78 601	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
PT 28 802	Metal retaining clip PT, relay height 29 mm	1393162-1

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3430B2F51RTDF CPF0402B37K4E1 ROX05SJ18R 1-794222-0 1743455-2 2310537-1 3-1393225-0 RH73H2A40MKTN 141991-2 650075-000 936348-1 MPT100C18RF 2380312-2 3631B101LL SBCHE64R7K 1-962915-1 175977-2 1903112-2 1969656-1 2377783-2 TE50BR39J U5254-000005-030PA 2005330-1 917696-1 CRGCQ2010J3K3 SBCHE154R7K SMW73R0JT 1393431-1 2-292161-3 2834055-1