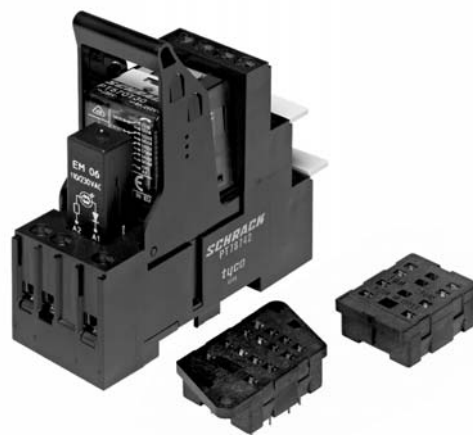


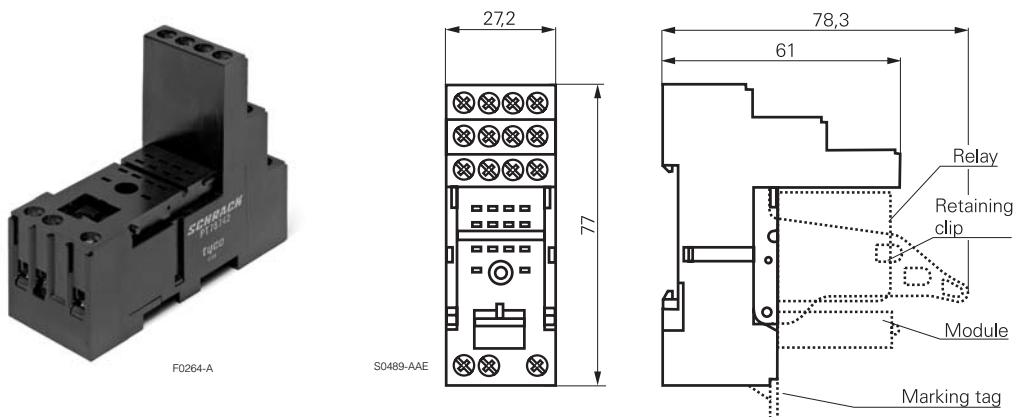
Accessories Miniature Relay PT

- Easy replacement of relays on a densely packed DIN rail
- Socket with logical arrangement of control/load terminals
- High quality rising clamp terminals
- Captive combination terminal screws
- 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 or 35mm height
- Second A2 for easier looping
- DIN-rail sockets and accessories: RoHS compliant (Directive 2002/95/EC)



F0263-B

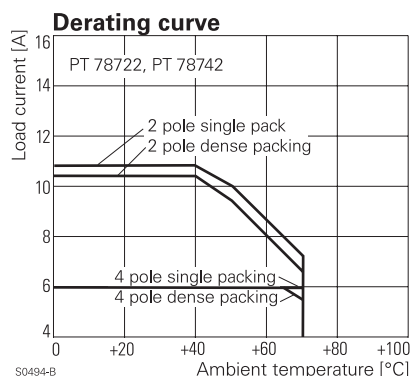
PT DIN-rail socket with screw type terminals PT 78 722 / PT 78 742



Approvals

VDE REG.-Nr. 115719, cULus E135149

Technical data	2-pole	4-pole
Rated current	12 A	6 A
Limiting continuous current	see derating curve	
Rated voltage / max. switching voltage AC	240/400 VAC	240 VAC
Dielectric strength coil-contact circuit	2500 V _{rms}	2500 V _{rms}
	open contact circuit	1200 V _{rms}
	adjacent contact circuits	2000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 3/4 mm	≥ 1.8/3 mm
Material group of insulation parts	≥ IIIa	
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	
RoHS - Directive 2002/95/EC	compliant	
Degree of protection DIN 40050	IP20	
Ambient temperature range	-40...+70°C	
Terminals	screw	
Terminal screw torque acc. IEC 61984	0.5 Nm	
max.	0.8 Nm	



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
Wire cross section		
single wire	1 x 4.0 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
Packaging unit	10 pcs	

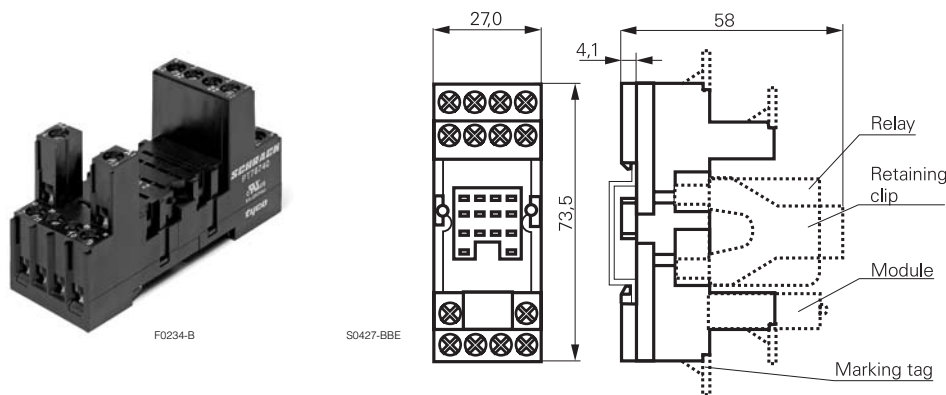
DIN-rail socket with screw type terminals, In/Out arrangement

Type		Part Number
PT 78 722	DIN-rail socket with screw type terminals, In/Out arrangement 2 pole	0-1415526-1
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 29/35 mm	2-1415526-1
PT 28 800	Metal retaining clip PT, relay height 29 mm	5-1419111-9
ZG 28 801	Metal retaining clip, relay height 36 mm	1-1393162-5
PT 17 040	Marking tag	6-1415037-1

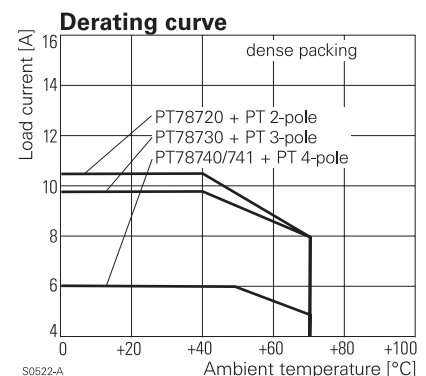
PT DIN-rail socket with screw type terminals PT 78 720/730/740/741



Approvals

VDE REG.-Nr. 115719, cULus E135149

Technical data	2-pole	3-pole	4-pole
Rated current	12 A	10 A	6 A
Limiting continuous current	see derating curve		
Rated voltage / max. switching voltage AC	240/400 VAC		
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	≥ 3/4 mm	≥ 2.6/4 mm	≥ 1.8/3 mm
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		



Accessories Miniature Relay PT (Continued)

Technical data (Continued)	2-pole	3-pole	4-pole
RoHS - Directive 2002/95/EC		compliant	
Degree of protection DIN 40050		IP20	
Ambient temperature range		-40...+70°C	
Terminals		screw	
Terminal screw torque acc. IEC 61984		0.5 Nm	
max.		0.8 Nm	
Wire cross section			
single wire		1 x 4.0 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	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	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 17 017	Plastic retaining clip, relay height 34.6 mm	7-1415037-1
PT 17 018	Plastic retaining clip, relay height 35.2 mm	8-1415037-1
PT 17 019	Plastic retaining clip, relay height 36.6 mm	9-1415037-1
PT 17 020	Plastic retaining clip, relay height 37.6 mm	0-1415038-1
PT 28 800	Metal retaining clip PT, relay height 29 mm	5-1419111-9
ZG 28 801	Metal retaining clip, relay height 36 mm	1-1393162-5
PT 17 040	Marking tag	6-1415037-1

**LED- and Protection Modules for 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+)	0-1415037-1
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

LED

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 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 110	EM19 red LED 48...110 VDC w. prot. diode (A1+, A2-)	2-1415392-1
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



F0231-A

F0232-A

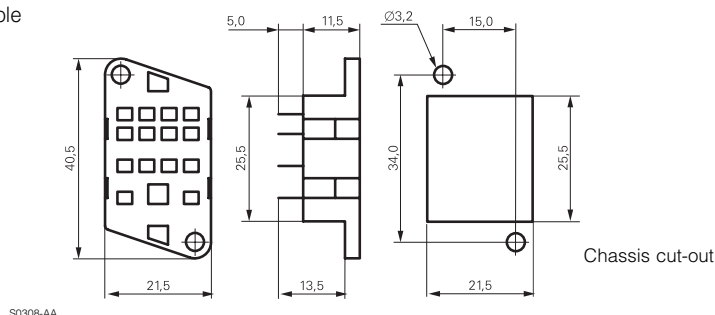
Accessories Miniature Relay PT (Continued)

PT sockets for PCB and with solder terminals PT 78 600/601/602/603/604

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



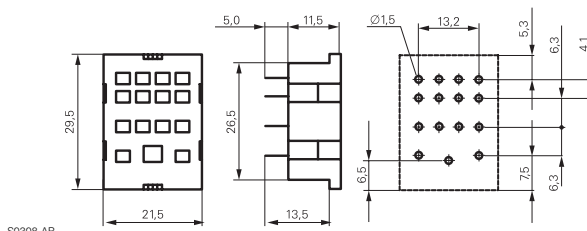
F0132-A



PT 78 602, PT 78 603, PT 78 604, socket with PCB terminals, 2-, 3- and 4-pole



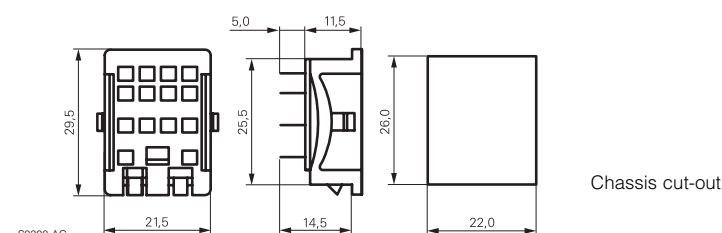
F0133-A



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



F0134-A



Technical data	2-pole	3-pole	4-pole
Rated current	12 A	10 A	6 A
Rated voltage / max.switching voltage AC	240/400 VAC		
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	≥ 3/4 mm	≥ 2.6/4 mm	≥ 1.8/3 mm
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		

Accessories Miniature Relay PT (Continued)

Technical data (Continued)	2-pole	3-pole	4-pole
RoHS - Directive 2002/95/EC	compliant as per product date code 0517		
Degree of protection DIN 40050	IP20		
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	0-1393162-5
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	0-1393162-1
ZG 28 800	Metal retaining clip, relay height 36 mm	1-1393162-4