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 or 35mm height
- DIN-rail sockets and accessories: RoHS compliant (Directive 2002/95/EC)

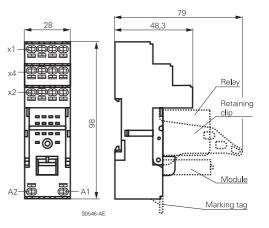


Premium socket with screwless terminals for DIN rail mounting

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

- PT 2/4 pole 6/12 A
- Screwless Clamps
- Mounting of solid wires without tool
- Double Clamps per terminal
- Jumper bars for interconnection
- Open coil circuit for active modules
- Logical terminal arrangement

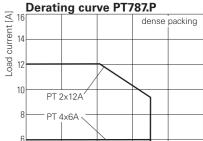




Approvals

🚾 REGNr. 115719 in preparation, c 🔁 us E135149				
Technical data	2-pole		4-pole	
Rated current	12 A		6 A	
Limiting continuous current	se	e derating cu	urve	
Rated voltage / max.switching voltage AC	240/400 V	AC	240 VAC	
Dielectric strength coil-contact circuit	2500 Vrn	ns	2500 Vrms	
open contact circuit	1200 Vrn	ns	1200 Vrms	
adjacent contact circuits	2500 Vrn	ns	2000 Vrms	
Clearance / creepage coil-contact circuit	≥ 4/4 mm	≥ 4/4 mm	≥ 4/4 mm	
adjacent contact circuits	≥ 3.5/9.5 mm	\geq 2.6/3.5 mr	$n \geq 1.8/3.5 \text{ mm}$	
Material group of insulation parts \geq IIIa				
Insulation to IEC 60664-1				
Type of insulation coil-contact circuit		basic		
open contact circu	it	functional		
adjacent contact c	ircuits	basic		
Rated insulation voltage		250 V		
Pollution degree		2 ¹⁾		
Rated voltage system		230/400 V		
Overvoltage category		111		

• •



+20 +40 +60 +80 +100 Ambient temperature [°C]

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

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4

S05

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'Schrack' section.

Specifications subject to change.

Technical data (Continued)	2-pole	4-pole
RoHS - Directive 2002/95/EC	com	oliant
Degree of protection DIN 40050	IP	20
Ambient temperature range		
for mounting/handling	-25	+70°C
in operation	-40	+70°C
Terminals		vless
Wire strip length	12	mm
Wire cross section		
solid wire	1 x 0.75/1	
	2 x 0.75	
with standard isolation (no oversize iso	lation) 2 x 1.	5 mm ²
stranded wire		_
without bootlace crimp		$1/1.5 \text{ mm}^2$
	2 x 0.75	
without bootlace crimp with standard is		
with bootlace crimp	1 x 0.75	
	2 x 0.7	
with bootlace crimp without isolation	1 x 1.	5 mm ²
or isolation 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.

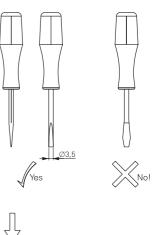
Insertion cycles	A (I	A (10)		
Max. Insertion Force total	100	100 N		
Mounting distance	0, dense	packing		
Weight	44 g	60 g		
Packaging unit	10 pcs			

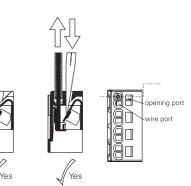
Socket with	screwless terminals for DIN rail mounting	
Туре		Part Number
PT 7872P	Premium socket, logical terminal arrangement	1000100.1

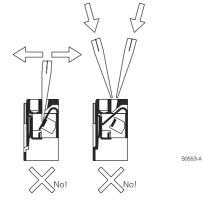
	Socket with screwless terminals 2 pole	1860100-1
PT 7874P	Premium socket, logical terminal arrangement	
	Socket with screwless terminals 4 pole	1860000-1

Accessories for PT 78 72P, PT 78 74P			
Туре		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	
PT 17 040	Marking tag	6-1415037-1	
PT 17 0P1	Jumper link	1860214-1	

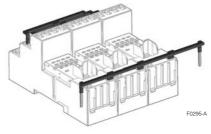
How to use, Precautions







Jumper bar



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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Specifications subject to change.

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

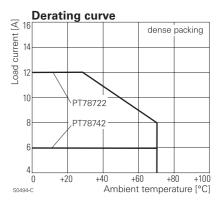
- Socket with logical arrangement of control/load terminals
- High quality rising clamp terminals
- Captive combination terminal screws
- Second A2 for easier looping

27,2 78,3 61 8888 8888 Relay 8888 0000 Retaining clip •@• E Module 88 8 F0264-B Marking tag S0489-BA

Approvals

REG.-Nr. 115719, **CPU**us E135149

Technical data	2-pole		4-pole
Rated current	12 A		6 A
Limiting continuous current	SE	e derating cur	ve
Rated voltage / max.switching voltage AC	240/400 V		240 VAC
Dielectric strength coil-contact circuit	2500 Vrr	ns 2	500 V _{rms}
open contact circuit	1200 V _{rr}	ns 1	200 V _{rms}
adjacent contact circuits	2500 V _{rr}	ns 2	000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 4/4 mm	≥ 4/4 mm	≥ 4/4 mm
adjacent contact circuits	≥ 3.5/9.5 mm	\geq 2.6/3.5 mm	≥ 1.8/3.5 mm
Material group of insulation parts		≥ Illa	
Insulation to IEC 60664-1			
Type of insulation coil-contact circuit		basic	
open contact circu	t	functional	
adjacent contact c	rcuits	basic	
Rated insulation voltage		250 V	
Pollution degree		2 ¹⁾	
Rated voltage system		230/400 V	
Overvoltage category		111	
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.		0.7 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		, dense packin	
Weight	44 g		60 g
Packaging unit		10 pcs	



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

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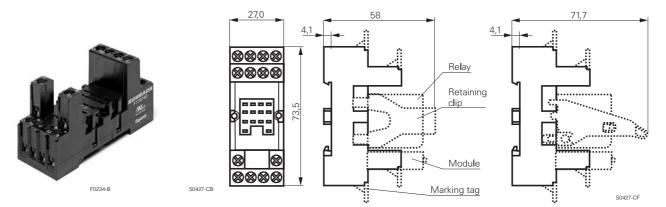
Specifications subject to change.

DIN-rail socket with screw type terminals, In/Out arrangement	l .
Type	Pa

DIN-Tall SOCKE	with screw type terminals, mout analyement	
Туре		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			
Туре		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	
PT 17 040	Marking tag	6-1415037-1	

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

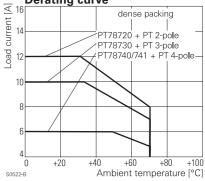


Approvals

REG.-Nr. 115719, CRUs E135149

Technical data	2-pole	3-pole	4-pole
Rated current	12 A	10 A	6 A
Limiting continuous current		ee derating curv	.
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 Vrms	2500 Vrms	2000 Vrms
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		≥ Illa	
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			
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.		0.7 Nm	
single wire			
fine wire		2 x 2.5 mm ²	
max. Wire cross section		0.3 Nm 0.7 Nm 2 x 2.5 mm ² 2 x 2.5 mm ²	





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Product specification according to IEC 61810-1. Product data, technical para-meters, test conditions and

processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.

2 x 1.5 mm²

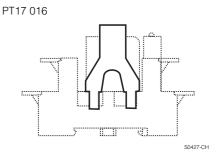
Technical data (Continued)	2-pole	3-pole	4-pole
Insertion cycles		A (10)	-
Max. Insertion Force total	100 Ń		
Mounting distance	0, dense packing		
Weight	41 g	48 g	55 g
Packaging unit		10 pcs	

DIN-rail socket with screw type terminals

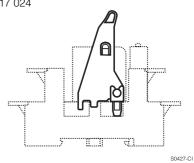
with bootlace crimp (DIN 46228/1)

Туре		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	s for PT 78 720, PT 78 730, PT 78 740, PT 78 741	
Туре		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 function,	
	relay height 29 mm	1816124-1
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	1415038-1
PT 28 800	Metal retaining clip PT, relay height 29 mm	5-1419111-9
PT 17 040	Marking tag	6-1415037-1



PT17 024



Marking tags

■White marking area 28 x 6 mm

■Snaps on socket in up to 4 positions

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

winny in parai			
Туре			Part Number
PTM T0 0A0	EM09	Protection diode (standard, A1+, A2-)	9-1415036-1
PTM TO OLO	EM01	Protection diode (A1-, A2+)	1415037-1
PTM U0 524	EM02	RC-network 660 VAC	1-1415037-1
PTM U0 730	EM03	RC-network 110230 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 R0 730	EM29	Bleeder Resistor 110230 VAC	1-1415539-2



F0231-A

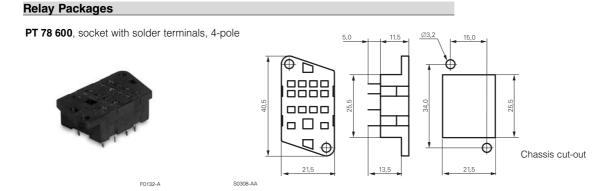
F0232-A

LED

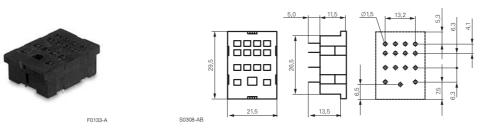
PTM L0 024	EM18	red LED 624 VDC w. prot.diode (std, A1+, A2-)	5-1415036-1
PTM G0 024	EM12	green LED 624 VDC w. prot.diode (std, A1+, A2-)	2-1415036-1
PTM L1 024	EM08	red LED 624 VDC w. prot. diode (A1-, A2+)	8-1415036-1
PTM L0 060	EM16	red LED 2460 VDC w. prot.diode (std, A1+, A2-)	5-1415539-3
PTM G0 060	EM25	green LED 2460 VDC w. prot.diode (std, A1+, A2-)	7-1415539-7
PTM L0 110	EM19	red LED 48110 VDC w. prot. diode (A1+, A2-)	2-1415392-1
PTM G0 110	EM26	green LED 48110 VDC w. prot diode (A1+, A2-)	1-1415539-7
PTM L0 220	EM27	red LED 110220 VDC w. prot. diode (A1+, A2-)	1-1415539-4
PTM G0 220	EM28	green LED 110220 VDC w. prot diode (A1+, A2-)	1-1415539-6
PTM L0 524	EM07	red LED 624 VDC/VAC	6-1415036-1
PTM G0 524	EM11	green LED 624 VDC/VAC	3-1415036-1
PTM L0 560	EM14	red LED 2460 VDC/VAC	1-1415539-3
PTM G0 560	EM30	green LED 2460 VDC/VAC	1-1415539-5
PTM L0 730	EM06	red LED 110230 VAC	7-1415036-1
PTM G0 730	EM10	green LED 110230 VAC	4-1415036-1

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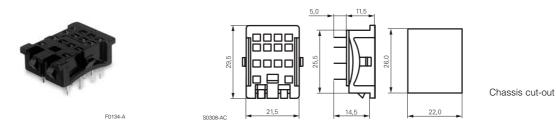
Specifications subject to change.



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



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



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

PT sockets for PCB mount and with solder terminals

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 Vrms	1200 V _{rms}	1200 Vrms
adjacent contact circuits	2500 Vrms	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		≥ Illa	
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

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Specifications subject to change.

Hated insulation voltage 250 V Pollution degree 2 Rated voltage system 230/400 V Overvoltage category III	Rated voltage system	250 V 2 230/400 V III
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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		g	
Resistance to soldering heat	270°C / 10 s		
Weight	6 g	7 g	7 g
Packaging unit		25 pcs	

PT sockets		
Туре		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			
Туре		Part Number	
PT 28 802	Metal retaining clip PT, relay height 29 mm	1393162-1	

Specifications subject to change.