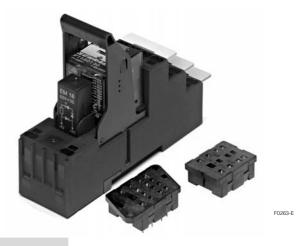


Accessories Miniature Relay PT

- 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
- 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

Approvals

Technical data

Limiting continuous current

Rated current

- Screwless Clamps
- Mounting of solid wires without tool
- Double Clamps per terminal
- Jumper links for interconnection
- Open coil circuit for active modules

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

Rated voltage / max.switching voltage AC

Clearance / creepage coil-contact circuit

Rated insulation voltage

Rated voltage system

Overvoltage category

open contact circuit

adjacent contact circuits

Type of insulation coil-contact circuit

adjacent contact circuits

open contact circuit

adjacent contact circuits

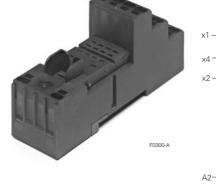
Dielectric strength coil-contact circuit

Material group of insulation parts

Pollution degree

Insulation to IEC 60664-1

Logical terminal arrangement



see derating curve

≥ Illa

basic

functional

basic

250 V

2 1)

230/400 V

111

4-pole

6 A

240 VAC

2500 V_{rms}

1200 V_{rms}

2000 V_{rms}

 $\geq 4/4 \text{ mm}$

≥1.8/3.5 mm

2-pole

12 A

240/400 VAC

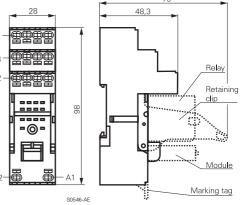
2500 V_{rms}

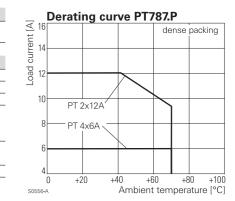
1200 Vrms

2500 V_{rms}

 $\geq 4/4 \text{ mm}$

≥ 3.5/9.5 mm





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

Datasheet Rev. HC1 Issued 2008/03 www.tycoelectronics.com www.schrackrelays.com Dimensions are in mm unless otherwise specified and are shown for reference purposes only. Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and processing information only to be used together with the 'Definitions' at schrackrelays.com in the '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		

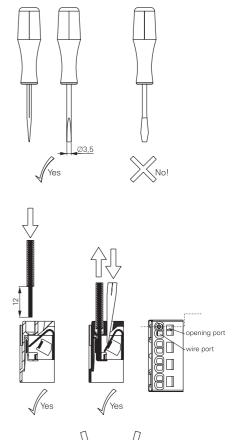
For stranded wires with braids 0.05 mm or smaller the use of bootlace crimps is recommended. When using stranded wires without bootlace crimp the clamp must be opened during insertion.

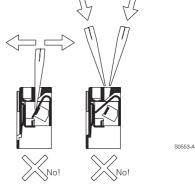
Insention cycles	A (I	A (10)	
Max. Insertion Force total	100	N	
Mounting distance	0, dense	oacking	
Weight	44 g	60 g	
Packaging unit	10 pcs		

Socket with	screwless terminals for DIN rail mounting	
Туре		Part Number
PT 7872P	Premium socket, logical terminal arrangement	
	Socket with screwless terminals 2 pole	1860100-1
PT 7874P	Premium socket, logical terminal arrangement	
	Socket with screwless terminals 4 pole	1860000-1

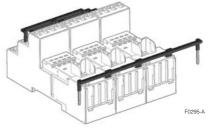
Accessories for PT 78 72P, PT 78 74P		
Туре		Part Number
PT 17 021	Plastic retaining clip, relay height 29 mm	2-1415526-1
PT 28 800	Metal retaining clip PT, relay height 29 mm	5-1419111-9
PT 17 040	Marking tag	6-1415037-1
PT 17 0P1	Jumper link, max load 12 A	1860214-1







Jumper link



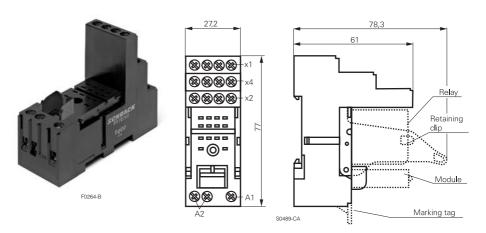
When connecting more than 2 poles with staggered jumper bars the lower bars need to be stripped and shortened to an appropriate length to enable correct fitting.

Datasheet Rev. HC1 Issued 2008/03 www.tycoelectronics.com www.schrackrelays.com Dimensions are in mm unless otherwise specified and are shown for reference purposes only. Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.

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

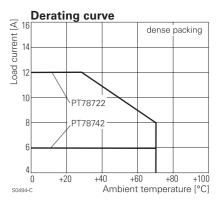
- Socket with logical arrangement of control/load terminals
- High quality rising clamp terminals
- Captive combination terminal screws
- Second A2 for easier looping
- Jumper bars for interconnection



Approvals

REG.-Nr. 115719, **c Plus** E135149

Technical data	2-pole	4-pole
Rated current	12 A	6 A
Limiting continuous current	see derat	ing curve
Rated voltage / max.switching voltage AC	240/400 VAC	240 VAC
Dielectric strength coil-contact circuit	2500 V _{rms}	2500 Vrms
open contact circuit	1200 V _{rms}	1200 Vrms
adjacent contact circuits	2500 V _{rms}	2000 Vrms
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	≥	Illa
Insulation to IEC 60664-1		
Type of insulation coil-contact circuit	ba	sic
open contact circuit	funct	ional
adjacent contact circu	uits ba	sic
Rated insulation voltage	250	V C
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	scr	ew
Terminal screw torque acc. IEC 61984	0.5	Nm
max.	0.7 Nm	
Wire cross section		
single wire 2 x 2.5 m		5 mm²
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		60 g
Packaging unit	10 pcs	



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

Datasheet Rev. HC1 Issued 2008/03 www.tycoelectronics.com www.schrackrelays.com Dimensions are in mm unless otherwise specified and are shown for reference purposes only. Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

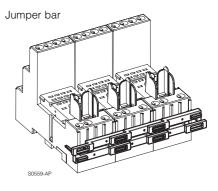
Specifications subject to change.

NI

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

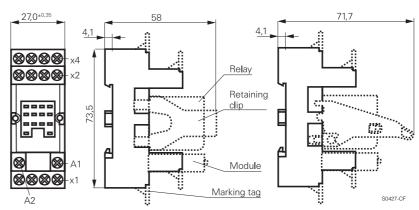
туре		Part Number
PT 78 722	DIN-rail socket with screw type terminals,	
	In/Out arrangement 2 pole	1415526-1
PT 78 742	DIN-rail socket with screw type terminals,	
	In/Out arrangement 4 pole	1-1415526-1

Accessories	s for PT 78 722, PT 78 742	
Туре		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 12 A	1860517-5
	for connection of up to 6 PT sockets	



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

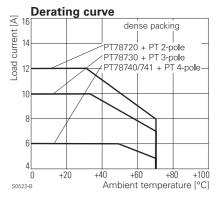




Approvals

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

Technical data	2-pole	3-pole	4-pole
Rated current	12 A	10 A	6 A
Limiting continuous current	Se	e derating curv	/e
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 Vrms	1200 V _{rms}
adjacent contact circuits	2500 Vrms	2500 Vrms	2000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 4/4 mm	≥ 4/4 mm	≥ 4/4 mm
adjacent contact circuits	\geq 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		
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	



Datasheet Rev. HC1 Issued 2008/03 www.tycoelectronics.com www.schrackrelays.com Dimensions are in mm unless otherwise specified and are shown for reference purposes only. Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

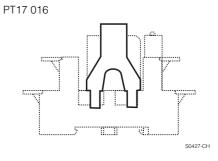
Specifications subject to change.

SCHRACK

Accessories Miniature Relay PT (Continued)

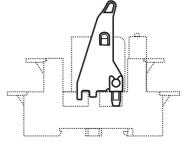
Technical data (Continued)	2-pole	3-pole	4-pole
Insertion cycles		A (10)	
Max. Insertion Force total		100 N	
Mounting distance	0, dense packing		
Weight	41 g	48 g	55 g
Packaging unit		10 pcs	

DIN-rail socket with screw type terminals		
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



PT17 024

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 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 12 A	1860517-5
	for connection of up to 6 PT sockets	



S0427-CI

F0231-A

Marking tags ■White marking area 28 x 6 mm

■Snaps on socket in up to 4 positions

F0232-A

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

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

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 60110 VDC w. prot. diode (A1+, A2-)	2-1415392-1
PTM G0 110	EM26	green LED 60110 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

Relay Packages

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

Rev. HC1 Datasheet Issued 2008/03 www.tycoelectronics.com www.schrackrelays.com

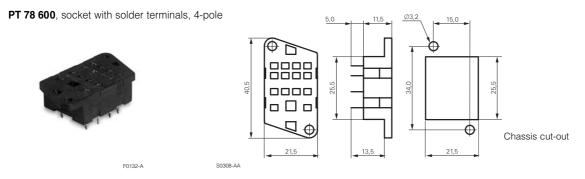
Dimensions are in mm unless otherwise specified and are shown for reference purposes only.

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.

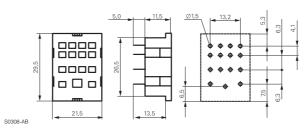
Specifications subject to change.

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

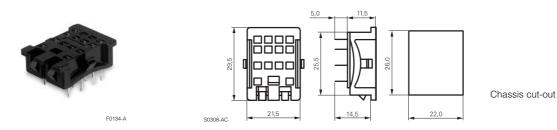


PT 78 602, PT 78 603, PT 78 604, socket with PCB terminals, 2-, 3- and 4-pole





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



Approvals

REG.-Nr. 115719, **c** SUs 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}	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	≥	Illa	
Insulation to IEC 60664-1			
Type of insulation coil-contact circuit	ba	asic	
open contact circuit	func	tional	
adjacent contact circu	its ba	asic	

Datasheet Rev. HC1 Issued 2008/03 www.tycoelectronics.com www.schrackrelays.com Dimensions are in mm unless otherwise specified and are shown for reference purposes only. Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.

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	0, dense packing	
Weight	44 g	60 g
Packaging unit	10 pcs	

DIN-rail socket with screw type terminals, In/Out arrangement			
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 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 12 A for connection of up to 6 PT sockets	1860517-5	

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

Approvals

REG.-Nr. 115719, CRUIS 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 Vrms
open contact circuit	1200 V _{rms}	1200 V _{rms}	1200 Vrms
adjacent contact circuits	2500 V _{rms}	2500 V _{rms}	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

Datasheet Rev. HC1 Issued 2008/03 www.tycoelectronics.com www.schrackrelays.com Dimensions are in mm unless otherwise specified and are shown for reference purposes only. Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

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

Specifications subject to change.