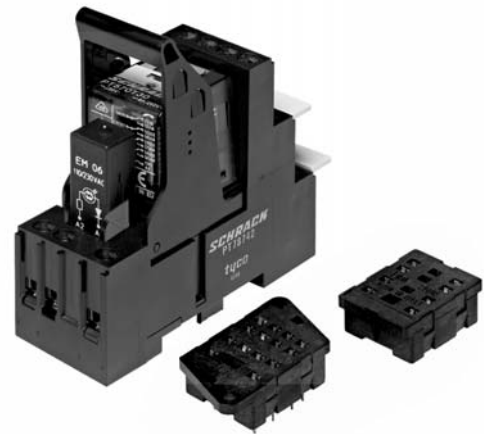


**Accessories Miniature Relay PT**

- 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)

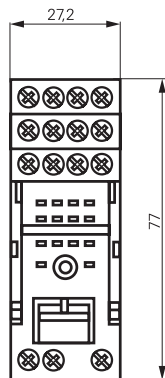


F0263-C

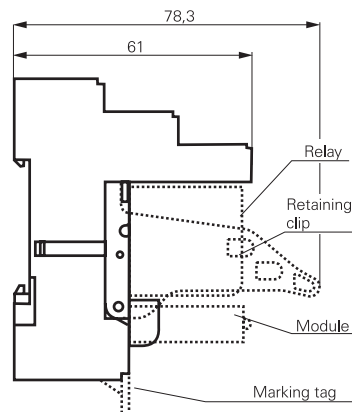
**PT DIN-rail socket with screw type terminals PT 78 722 / PT 78 742**



F0264-B



S0489-BA



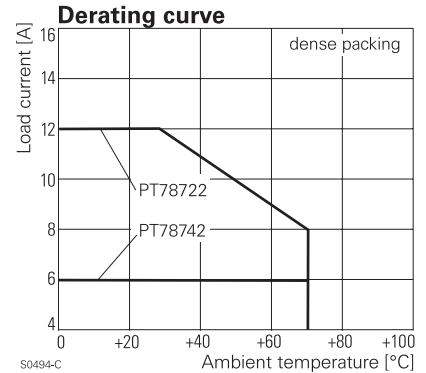
**Approvals**

VDE REG.-Nr. 115719, c **UL** us 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 <sub>rms</sub>	2500 V <sub>rms</sub>
	open contact circuit	1200 V <sub>rms</sub>
	adjacent contact circuits	2500 V <sub>rms</sub>
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 <sup>1)</sup>	
Rated voltage system	230/400 V	
Overvoltage category	III	

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

Technical data (Continued)	2-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.		0.7 Nm
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
Packaging unit		10 pcs



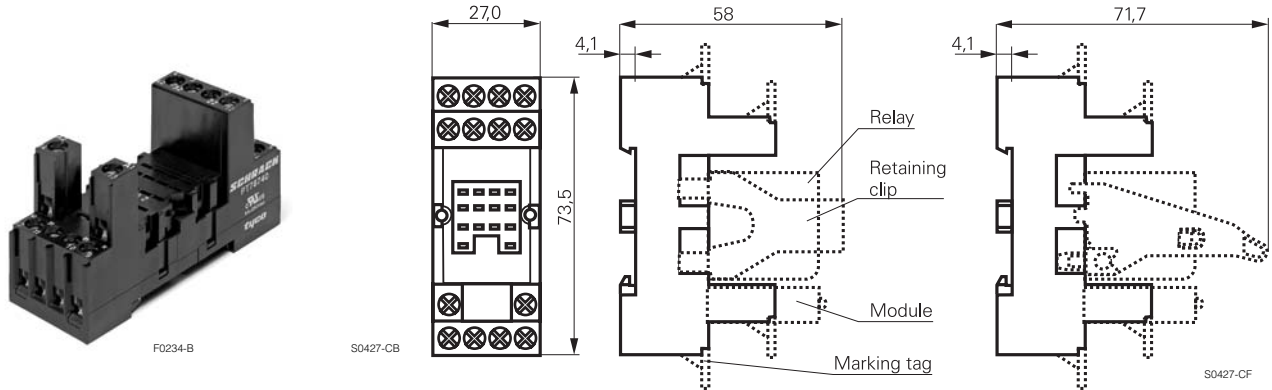
**DIN-rail socket with screw type terminals, In/Out arrangement**

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 29/35 mm	2-1415526-1
<b>PT 28 800</b>	Metal retaining clip PT, relay height 29 mm	5-1419111-9
<b>ZG 28 801</b>	Metal retaining clip, relay height 36 mm	1-1393162-5
<b>PT 17 040</b>	Marking tag	6-1415037-1

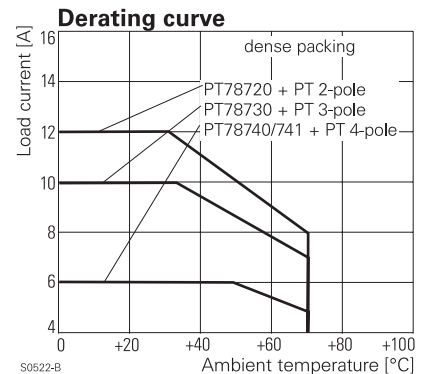
**PT DIN-rail socket with screw type terminals PT 78 720/730/740/741**



**Approvals**

VDE REG.-Nr. 115719, c RU us 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 <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	≥ 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		
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 <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		

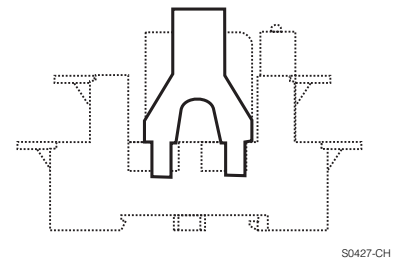


**DIN-rail socket with screw type terminals**

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 function, relay height 29 mm	1816124-1
<b>PT 17 017</b>	Plastic retaining clip, relay height 34.6 mm	7-1415037-1
<b>PT 17 018</b>	Plastic retaining clip, relay height 35.2 mm	8-1415037-1
<b>PT 17 019</b>	Plastic retaining clip, relay height 36.6 mm	9-1415037-1
<b>PT 17 020</b>	Plastic retaining clip, relay height 37.6 mm	1415038-1
<b>PT 28 800</b>	Metal retaining clip PT, relay height 29 mm	5-1419111-9
<b>ZG 28 801</b>	Metal retaining clip, relay height 36 mm	1-1393162-5
<b>PT 17 040</b>	Marking tag	6-1415037-1

PT17 016



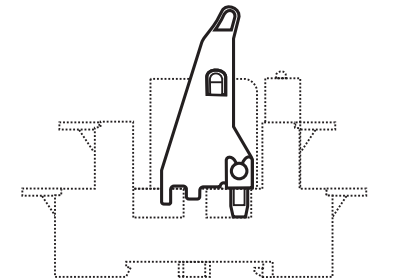
S0427-CH

**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
<b>PTM TO 0A0</b>	EM09 Protection diode (standard, A1+, A2-)	9-1415036-1
<b>PTM TO 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 R0 730</b>	EM29 Bleeder Resistor 110...230 VAC	1-1415539-2

PT17 024



S0427-CI

**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-)	1-1415539-3
<b>PTM G0 060</b>	EM25 green LED 24...60 VDC w. prot.diode (std, A1+, A2-)	1-1415539-5
<b>PTM L0 110</b>	EM19 red LED 48...110 VDC w. prot. diode (A1+, A2-)	2-1415392-1
<b>PTM G0 110</b>	EM26 green LED 48...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 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



F0231-A



F0232-A

**Relay Packages**

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

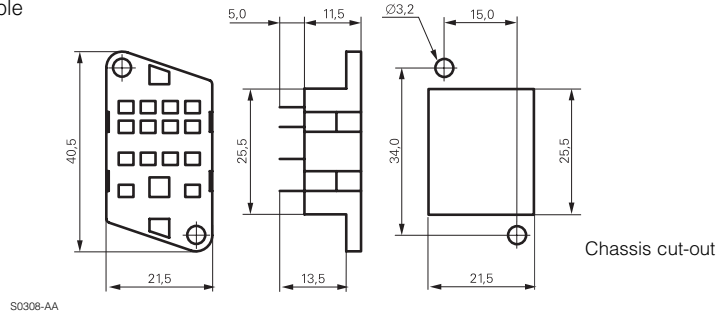
**Accessories Miniature Relay PT (Continued)**

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

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



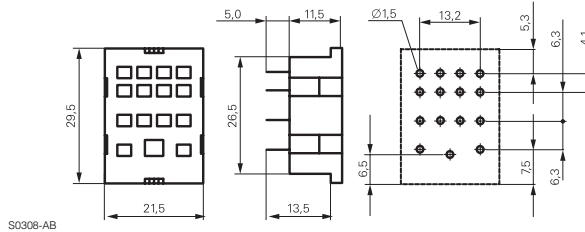
F0132-A



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



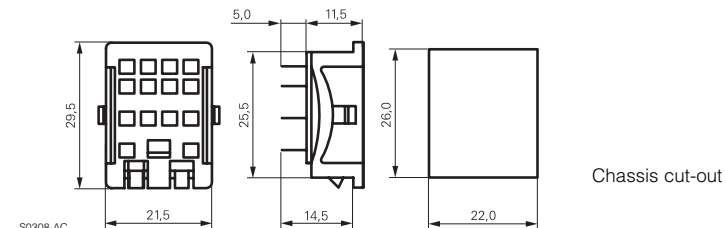
F0133-A



**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 <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	≥ 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		

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
<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
<b>ZG 28 800</b>	Metal retaining clip, relay height 36 mm	1-1393162-4