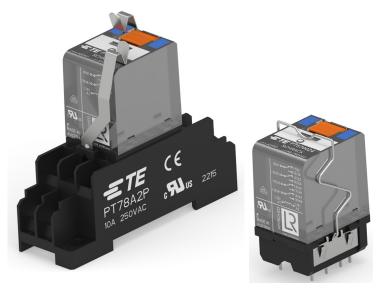


GENERAL PURPOSE RELAYS ACCESSORIES

#### **INTRODUCTION**

This socket is a universal product and can be used with TE PT relays. This series includes a basic range of DIN and PCB types. Optional clips provide a more secure connection of the relay to the socket. For extensive PT relay accessories click here



#### **FEATURES**

- Easy replacement of relays on a densely packed DIN rail
- Safety protection against physical contact
- Metal clips can be installed to make the installation more stable
- Total height of socket-relay package is 60mm
- High quality rising clamp terminals
- Captive combination terminal screws

#### **APPLICATION**

Electrical control cabinet, Power Conversion System (PCS), Machine tool, Automatic production line

#### **APPROVALS**

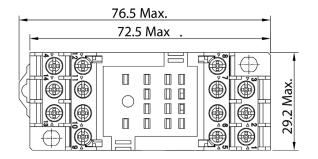
• CE and cULus E233439 for DIN Rail sockets

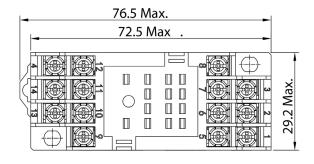


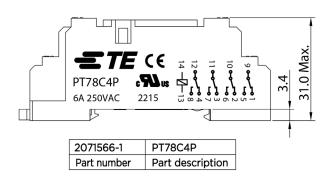
# PT DIN-rail socket with screw type terminals PT78C4P, PT78A4P

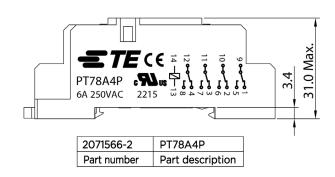










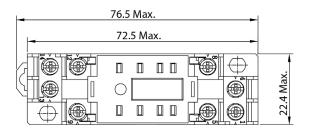


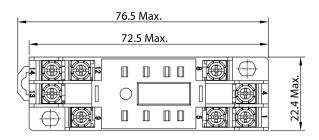
GENERAL PURPOSE RELAYS ACCESSORIES

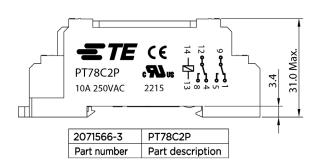
# PT DIN-rail socket with screw type terminals PT78C2P, PT78A2P

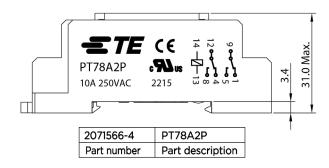












GENERAL PURPOSE RELAYS ACCESSORIES

# PT DIN-rail socket with screw type terminals PT78C4P, PT78A4P, PT78C2P, PT78A2P

#### **Technical data** 2-pole 4-pole Rated voltage/ Max. 2 form C (CO) 4 form C (CO) switching voltage Rated current 10A 6A Limiting continuous current see derating curve Dielectric strength (initial value) Open contact circuit 1 min 1,200 Vac 1,200Vac Coil-contacts 1 min 2,500Vac 2,500Vac Adjacent contacts 1 min 2,500Vac 2,000Vac Clearance / creepage Coil-contact circuit ≥3/4mm ≥3/4mm Adjacent contact circuits ≥3/4mm ≥1.5/2.2mm Material group of IIIa insulation parts Flammability class UL 94 V2 Insulation to IEC 60664-1 Type of insulation Coil contact circuit Basic Open contact circuit Functional

Basic

Adjacent contact circuits

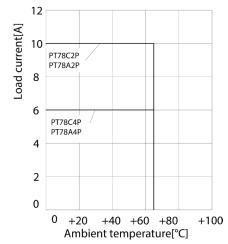
#### Technical data(continued)

Rated insulation voltage	250V	
Pollution degree	21)	
Rated voltage system	230/400V	
Ambient temperature range	-40+65°C	
Terminals	screw	
Terminal screw torque	0.5Nm (typical)	
acc. IEC61984	0.7Nm(max)	
Terminal Screw size	M3	
Wire strip length	8mm	
Wire cross section		
single wire	1.5 mm <sup>2</sup>	
fine wire	1.5 mm <sup>2</sup>	
Insertion cycles	A (10)	
Max. Insertion Force	130N	
Max pull out force	130N	
Mounting direction Any direction with clip		
Material compliance: EU RoHS/ELV, China		

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at

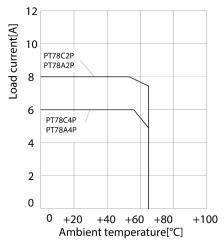
www.te.com/customersupport/rohssupportcenter

#### **Derating curve according to UL508**



The derating curve was defined and measured by PT socket and PT relay together.

#### **Derating curve according to IEC61984**



The derating curve was defined and measured by PT socket and PT relay together.

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



PT28D00 PT28D01

#### **PT** sockets

Туре	Description	Part Number
PT78C4P	DIN-rail socket with screw type terminals 4 pole, with safety protection	2071566-1
PT78A4P	DIN-rail socket with screw type terminals 4 pole	2071566-2
PT78C2P	DIN-rail socket with screw type terminals 2 pole, with saftey protection	2071566-3
PT78A2P	DIN-rail socket with screw type terminals 2 pole	2071566-4

#### **Accessories for**

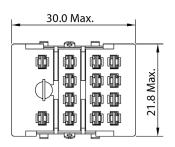
Туре	Description	Part Number
PT28D00	Metal retaining clip for DIN rail socket, 28 mm height relay	2071566-7
PT28D01	Metal retaining clip for DIN rail socket, 36 mm height relay	2071566-9

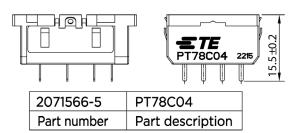
GENERAL PURPOSE RELAYS ACCESSORIES

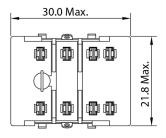
### PT PCB socket PT78C02,PT78C04

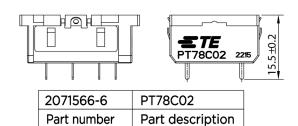












GENERAL PURPOSE RELAYS ACCESSORIES

### PT PCB socket

#### PT78C02,PT78C04

Rated voltage/ Max. switching voltage  Rated current  8A 6A  Limiting continuous current  Dielectric strength (initial value)  Open contact circuit 1 min Coil-contacts 1 min Adjacent contact circuit  Adjacent contact circuits  Plammability class UL 94  Insulation to IEC 60664-1  Type of insulation  Coil contact circuit  Adjacent contact circuit  Adjacent contact circuit  Basic Functional  Rated insulation voltage  Pollution degree  2 2  Rated voltage system  2 form C (CO)  4 form C (CO)  8 A  6A  Limiting continue Sevence  8 A 6A  Limital Sal  6 A  Limital Coll  9 2004  4 form C (CO)  5 2500Vac  2 30/400V  2 30/400V  2 30/400V	Technical data	2-pole	4-pole
Limiting continuous current  Dielectric strength (initial value)  Open contact circuit 1 min Coil-contacts 1 min Adjacent contact circuit  Adjacent contact circuit  Adjacent contact circuit  Elammability class UL 94  Insulation to IEC 60664-1  Type of insulation  Coil contact circuit  Adjacent contact circuit  Adjacent contact circuit  Basic  Functional  Adjacent contact circuits  Basic  Functional  Rated insulation voltage  2 2  2  Eventuation of the properties of the prope		2 form C (CO)	4 form C (CO)
Dielectric strength (initial value)  Open contact circuit 1 min Coil-contacts 1 min Adjacent contacts 1 min Adjacent contact circuit  Elammability class UL 94  Insulation to IEC 60664-1  Type of insulation Coil contact circuit Adjacent contact circuit Adjacent contact circuit Basic Functional Adjacent contact circuits Adjacent contact circuit Basic Functional Adjacent contact circuits Basic Functional Rated insulation voltage Pollution degree  1,200Vac 1,200Vac 2,500Vac 2,000Vac 2,000Vac 23/4mm ≥3/4mm ≥3/4mm ≥1.5/2.2mm  Illa  Functional Basic Functional Functional Functional Punctional	Rated current	8A	6A
(initial value)       Open contact circuit 1 min       1,200Vac       1,200Vac         Coil-contacts 1 min       2,500Vac       2,500Vac         Adjacent contacts 1 min       2,500Vac       2,000Vac         Clearance / creepage       2,500Vac       2,000Vac         Clearance / creepage       ≥3/4mm       ≥3/4mm         Adjacent contact circuits       ≥3/4mm       ≥1.5/2.2mm         Material group of insulation parts       IIIa         Flammability class UL 94       V2         Insulation to IEC 60664-1       Type of insulation         Coil contact circuit       Basic       Basic         Open contact circuit       Functional       Functional         Adjacent contact circuits       Basic       Functional         Rated insulation voltage       250V       250V         Pollution degree       2       2	Limiting continuous current	see derating curve	
Coil-contacts 1 min  Adjacent contacts 1 min  Clearance / creepage  Coil-contact circuit  Adjacent contact circuits  Adjacent contact circuits  Elammability class UL 94  Insulation to IEC 60664-1  Type of insulation  Coil contact circuit  Adjacent contact circuit  Basic  Functional  Adjacent contact circuits  Basic  Functional  Rated insulation voltage  Pollution degree  2,500Vac  2,500Vac  2,500Vac  2,000Vac  2,500Vac  2,000Vac  2,500Vac  2,000Vac  2			
Adjacent contacts 1 min  2,500Vac  2,000Vac  Clearance / creepage  Coil-contact circuit  Adjacent contact circuits  Elammability class UL 94  Insulation to IEC 60664-1  Type of insulation  Coil contact circuit  Adjacent contact circuit  Basic  Functional  Adjacent contact circuits  Basic  Functional  Rated insulation voltage  Pollution degree  2,500Vac  2,500Vac  2,000Vac  2,000Vac  23/4mm  ≥3/4mm  ≥1.5/2.2mm  Illa  Functional  Functional  Functional  Functional  250V  250V  250V	Open contact circuit 1 min	1,200Vac	1,200Vac
Clearance / creepage  Coil-contact circuit  Adjacent contact circuits  Material group of insulation parts  Flammability class UL 94  Insulation to IEC 60664-1  Type of insulation  Coil contact circuit  Adjacent contact circuit  Basic  Functional  Adjacent contact circuits  Rated insulation voltage  Pollution degree  Pollution degree  ≥3/4mm  ≥3/4mm  ≥3/4mm  ≥1.5/2.2mm  Illa  Functional  Basic  Basic  Functional  Functional  250V  250V  Pollution degree	Coil-contacts 1 min	2,500Vac	2,500Vac
Coil-contact circuit       ≥3/4mm       ≥3/4mm         Adjacent contact circuits       ≥3/4mm       ≥1.5/2.2mm         Material group of insulation parts       IIIa         Flammability class UL 94       V2         Insulation to IEC 60664-1       Type of insulation         Coil contact circuit       Basic       Basic         Open contact circuit       Functional       Functional         Adjacent contact circuits       Basic       Functional         Rated insulation voltage       250V       250V         Pollution degree       2       2	Adjacent contacts 1 min	2,500Vac	2,000Vac
Adjacent contact circuits ≥3/4mm ≥1.5/2.2mm  Material group of insulation parts  Flammability class UL 94  Insulation to IEC 60664-1  Type of insulation  Coil contact circuit Basic Basic  Open contact circuit Functional Functional  Adjacent contact circuits Basic Functional  Rated insulation voltage 250V 250V  Pollution degree 2 2	Clearance / creepage		
Material group of insulation parts  Flammability class UL 94  Insulation to IEC 60664-1  Type of insulation  Coil contact circuit  Adjacent contact circuits  Rated insulation voltage  Pollution degree  Illa  V2  Illa  V2  Basic  Functional  Functional  Functional  Functional  250V  250V  Pollution degree  2	Coil-contact circuit	≥3/4mm	≥3/4mm
insulation parts  Flammability class UL 94  Insulation to IEC 60664-1  Type of insulation  Coil contact circuit  Open contact circuit  Adjacent contact circuits  Rated insulation voltage  Pollution degree  Illa  V2  Illa  V2  Basic  Basic  Functional  Functional  Functional  250V  250V  Pollution degree  2	Adjacent contact circuits	≥3/4mm	≥1.5/2.2mm
Insulation to IEC 60664-1  Type of insulation  Coil contact circuit  Open contact circuit  Adjacent contact circuits  Rated insulation voltage  Pollution degree  Pollution degree  Insulation to IEC 60664-1  Basic  Functional  Functional  Functional  Functional  250V  250V  250V	- ·	IIIa	
Type of insulation  Coil contact circuit  Open contact circuit  Adjacent contact circuits  Rated insulation voltage  Pollution degree  Basic  Functional  Functional  250V  250V  250V	Flammability class UL 94	V2	
Coil contact circuit Basic Basic Open contact circuit Functional Functional Adjacent contact circuits Basic Functional Rated insulation voltage 250V 250V Pollution degree 2 2	Insulation to IEC 60664-1		
Open contact circuit Functional Functional Adjacent contact circuits Basic Functional Rated insulation voltage 250V 250V Pollution degree 2 2	Type of insulation		
Adjacent contact circuits  Rated insulation voltage  Pollution degree  2  2  2	Coil contact circuit	Basic	Basic
Rated insulation voltage 250V 250V Pollution degree 2 2	Open contact circuit	Functional	Functional
Pollution degree 2 2	Adjacent contact circuits	Basic	Functional
	Rated insulation voltage	250V	250V
Rated voltage system 230/400V 230/400V	Pollution degree	2	2
200/4001	Rated voltage system	230/400V	230/400V

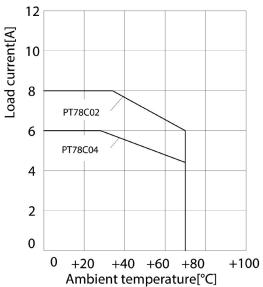
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at

www.te.com/customersupport/rohssupportcenter

<b>Technical data</b> (Continued)	2-pole	4-pole
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Ambient temperature range	-40+70°C	
Terminals	PCB terminals	
Insertion cycles	A (10)	
Resistance against solder heat	270°C/10s	
Max. Insertion Force	130N	
Max pull out force	130N	
Mounting direction	Any direction with clip	
Mounting distance	≥5mm	
Weight	6g 7g	

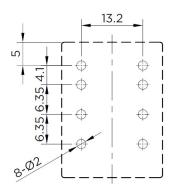
### **Derating curve according to IEC61984**



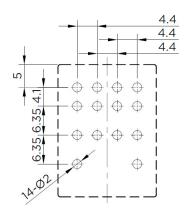
The derating curve was defined and measured by PT socket and PT relay together.

#### **Footprint**

#### **2P PCB socket footprint**



#### **4P PCB socket footprint**





PT28P00

#### **PT** sockets

Туре	Description	Part Number
PT78C04	Socket with PCB terminals, 4 pole	2071566-5
PT78C02	Socket with PCB terminals, 2 pole	2071566-6

#### **Accessories for**

Туре	Description	Part Number
PT28P00	Metal retaining clip for PCB socket, relay height 28mm	2071566-8