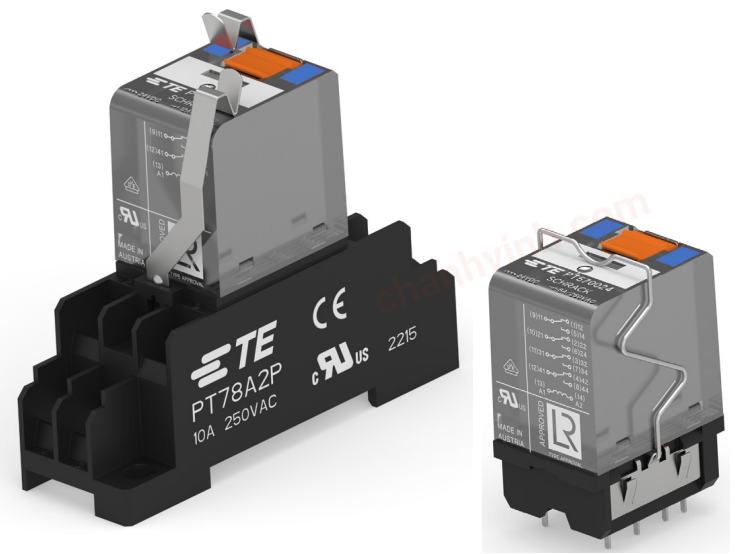
chanhvinh.com

SCHRACK ACCESSORIES MINIATURE RELAY PT

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

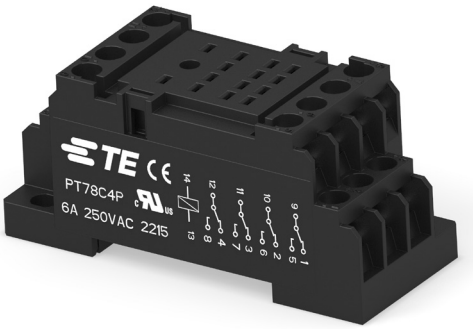
chanhvinh.com

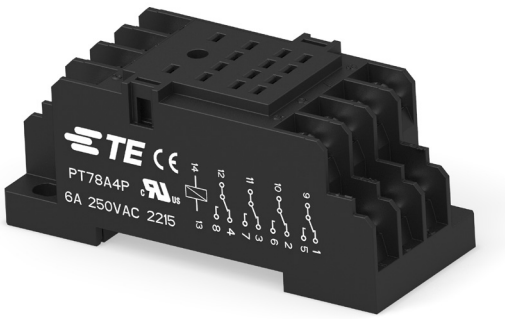
SCHRACK ACCESSORIES MINIATURE RELAY PT

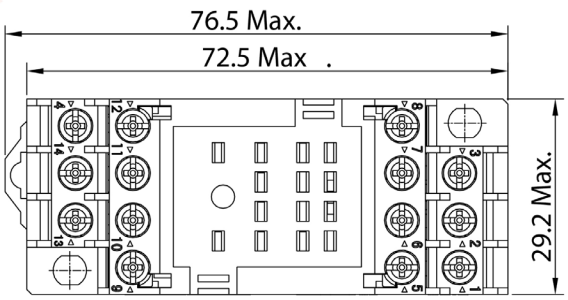
GENERAL PURPOSE RELAYS ACCESSORIES

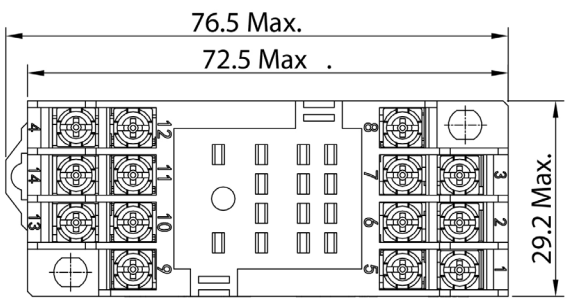
PT DIN-rail socket with screw type terminals

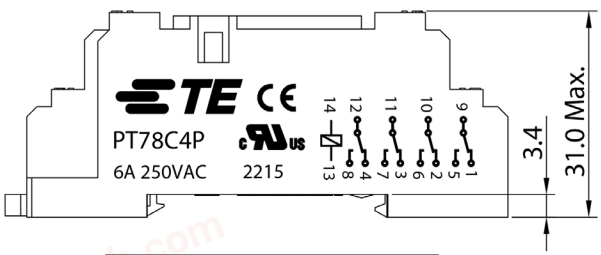
PT78C4P, PT78A4P



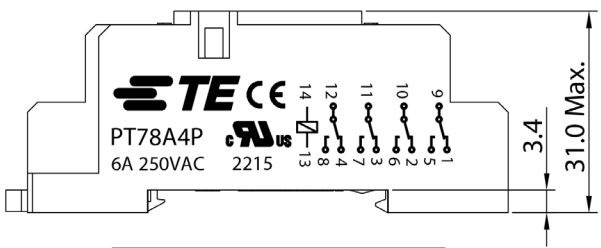








2071566-1	PT78C4P
Part number	Part description



2071566-2	PT78A4P
Part number	Part description

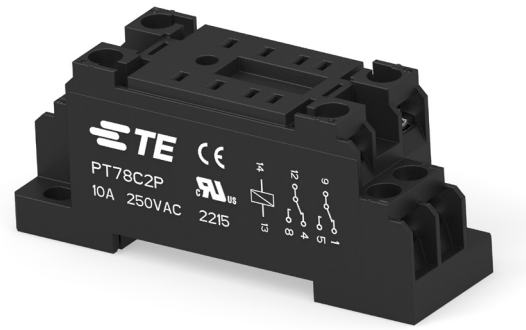
chanhvinh.com

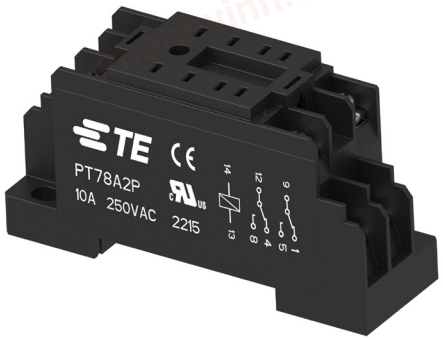
SCHRACK ACCESSORIES MINIATURE RELAY PT

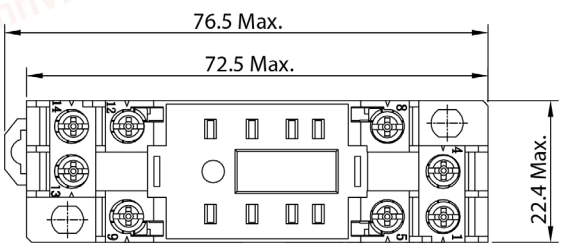
GENERAL PURPOSE RELAYS ACCESSORIES

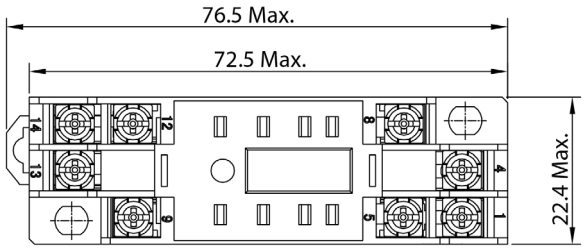
PT DIN-rail socket with screw type terminals

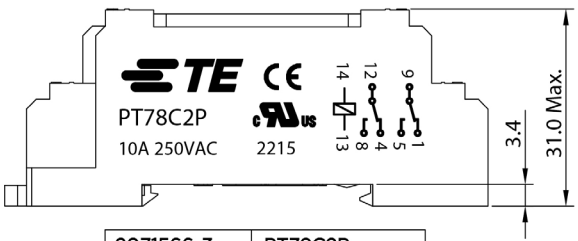
PT78C2P, PT78A2P



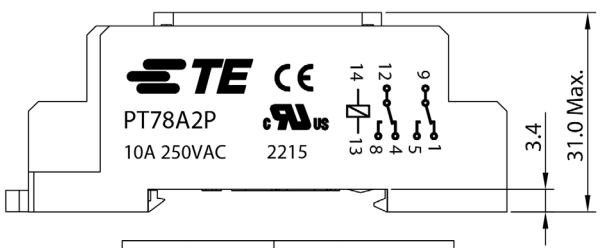








2071566-3	PT78C2P
Part number	Part description



2071566-4	PT78A2P
Part number	Part description

chanhvinh.com

SCHRACK ACCESSORIES MINIATURE RELAY PT

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. switching voltage	2 form C (CO)	4 form C (CO)
Rated current	10A	6A
Limiting continuous current	see derating curve	
Dielectric strength (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		
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	
Open contact circuit	Functional	
Adjacent contact circuits	Basic	

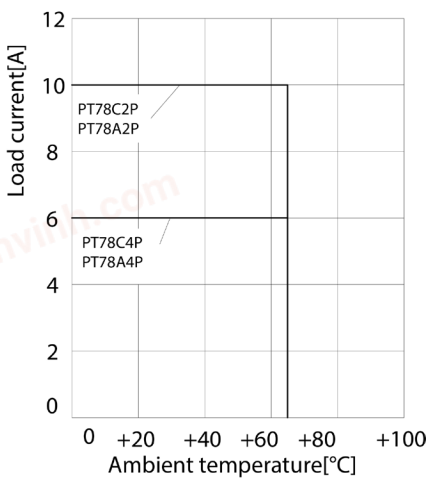
1) with inserted relay pollution degree 1 in region of contact pin/socket inlets

Technical data (continued)	
Rated insulation voltage	250V
Pollution degree	2[1)]
Rated voltage system	230/400V
Ambient temperature range	-40...+65°C
Terminals	screw
Terminal screw torque acc. IEC61984	0.5Nm (typical) 0.7Nm(max)
Terminal Screw size	M3
Wire strip length	8mm
Wire cross section	
single wire	1.5 mm^2
fine wire	1.5 mm^2
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 RoHS, REACH, Halogen content refer to the Product Compliance Support Center at

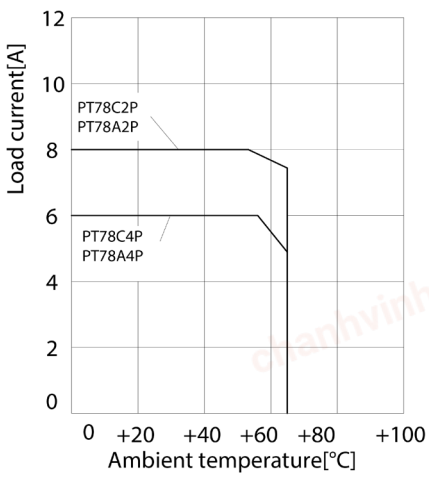
www.te.com/customersupport/rohssupportcenter

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.

chanhvinh.com

SCHRACK ACCESSORIES MINIATURE RELAY PT

GENERAL PURPOSE RELAYS ACCESSORIES



PT28D00



PT28D01

PT sockets

Type	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

Type	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

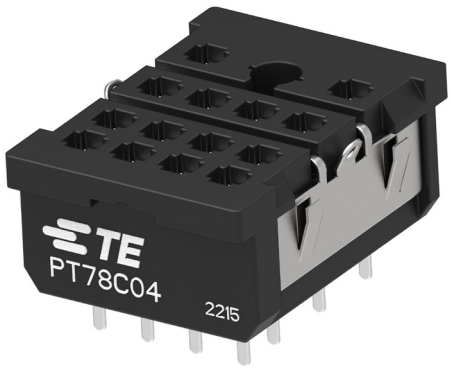
chanhvinh.com

SCHRACK ACCESSORIES MINIATURE RELAY PT

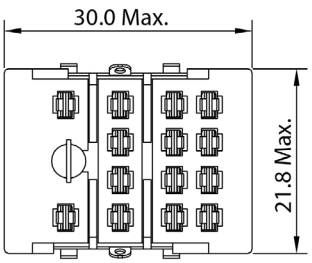
GENERAL PURPOSE RELAYS ACCESSORIES

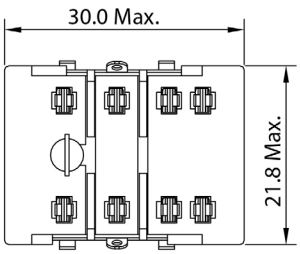
PT PCB socket

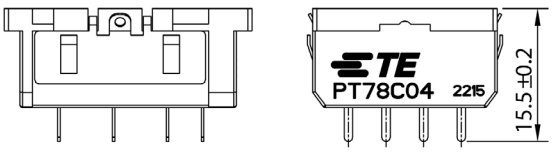
PT78C02,PT78C04



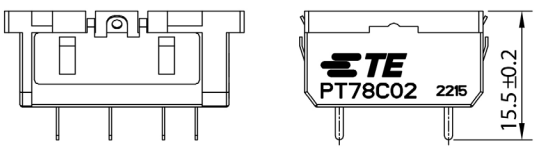








2071566-5	PT78C04
Part number	Part description



2071566-6	PT78C02
Part number	Part description

chanhvinh.com

SCHRACK ACCESSORIES MINIATURE RELAY PT

GENERAL PURPOSE RELAYS ACCESSORIES

PT PCB socket

PT78C02,PT78C04

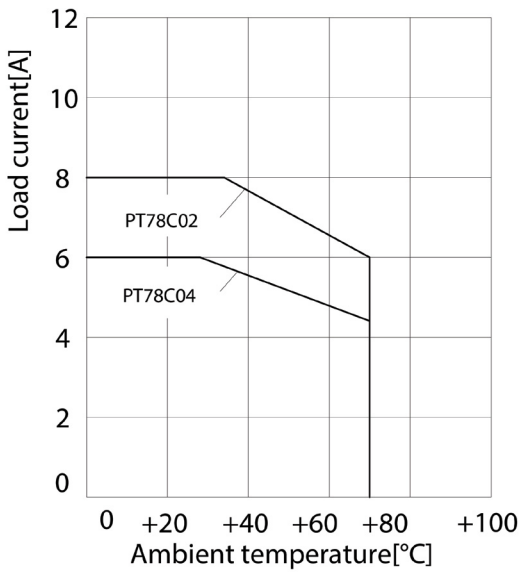
Technical data	2-pole	4-pole
Rated voltage/ Max. switching voltage	2 form C (CO)	4 form C (CO)
Rated current	8A	6A
Limiting continuous current	see derating curve	
Dielectric strength (initial value)		
Open contact circuit 1 min	1,200Vac	1,200Vac
Coil-contacts 1 min	2,500Vac	2,500Vac
Adjacent contacts 1 min	2,500Vac	2,000Vac
Clearance / creepage		
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
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

Technical data (Continued)	2-pole	4-pole
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.

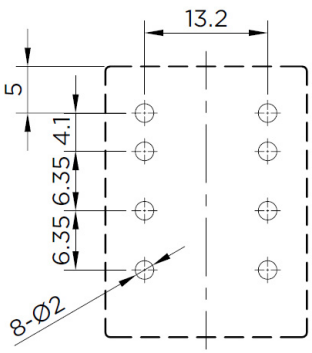
chanhvinh.com

SCHRACK ACCESSORIES MINIATURE RELAY PT

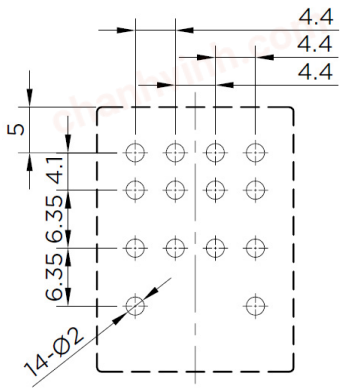
GENERAL PURPOSE RELAYS ACCESSORIES

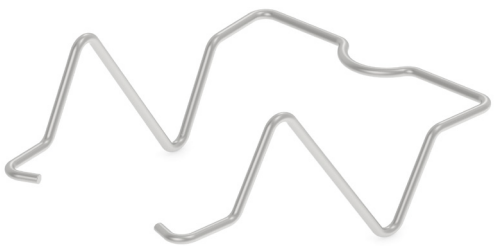
Footprint

2P PCB socket footprint



4P PCB socket footprint





PT28P00

PT sockets

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

Accessories for

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

chanhvinh.com

Combination of relay and socket, insulation requirements and thermal characteristics

The relay standard IEC 61810-1 has an important impact on the combination of a relay and the respective socket. The relay sockets have to comply with the requirements of IEC 61984 and the insulation requirements of the IEC 61810-1. Even if the socket alone fullfills or exceeds the insulation requirements as clearance/creepage for the relay, the combination of a relay with a socket may reduce the creepage and lead to a lower rated insulation voltage. Hence restrictions for the combination relay-socket may be the consequence, e.g. a reduction of the voltage range or of the pollution degree. Especially for miniature multi-pole relay and respective sockets with small distance between the contact circuits, these restrictions have a big impact.

Apart from the insulation properties, the thermal characteristics of the combination relay and socket are of utmost importance (see > 'Derating curves'). Especially the operations conditions like multiple heat up and cool down cycles could have significant impact on the long-term stability of the contact resistance of the combination contact tulip and terminal, and may thereby cause risk of overheating and fire hazard. It is strongly recommended that such conditions are considered in the design and usage of the device and that the devices are thoroughly tested under real conditions.

As sockets from different sources are not directly comparable, the compliance with the technical specification can only be informed for an approved combination relay-socket. As design details and characteristics for non TE products are beyond our control, confirmations for technical parameters and characteristics regarding such combinations is not possible. Risks as reduced dielectric strenght, fire hazard, etc. due to use based on unclear or omitted data, limitations or restrictions must not be underestimated.

NOTE: We only confirm the characteristics and parameters for the approved combinations of relays and sockets as indicated in the catalog and datasheets.

Important Notes:

1. Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

2. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at **http://relays.te.com/definitions**.

3. Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change

te.com

©2022 TE Connectivity. All Rights Reserved.

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

01/23