

Power PCB Relays up to 16A

Relays, Contactors & Circuit Breakers

Key Features

SCHRACK PE

Low height 10.0mm
Sensitive 200mW coil
Mono-or bistable coil
WG type available (IEC 60335-1)

SCHRACK RE/REL

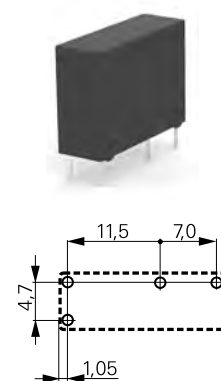
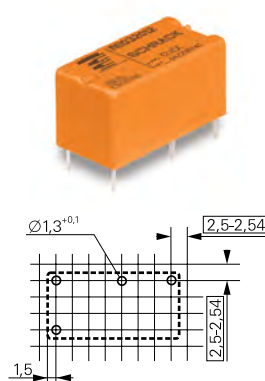
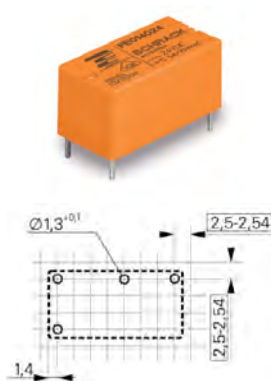
Miniature PCB relays
PCB area 200mm²
Wash tight

PCJ

Slim outline
Sensitive coil 200mW
WG type available (IEC 60335-1)
Ambient temperature up to 105°C

Footprint

2) see footnote below



Applications

Industrial electronics
White goods
Measurement and control

PLC; Timers; I/O cards
Temperature control
White goods

Home applications
HVAC

Contact Data

Contact arrangement	1 form C (CO)	1 form A (NO)	1 form A (NO)
Rated voltage	250VAC	250VAC	250VAC
Rated current	5A (CO) 6A (NO)	6/5A	3A/5A (WG type)
Switching power / Max. break	1250VA	1500/1250VA	750VA/1250VA (WG type)
Contact material	AgNi 90/10, AgSnO ₂	AgNi 0.15, AgNi 90/10	AgNi
Min. recommended contact load	1) see footnote below	1) see footnote below	100mA at 5VDC

Coil Data

Magnetic system	DC, bistable	DC	DC
Rated coil voltage	3 to 48VDC	5 to 48VDC	5 to 24VDC
Rated coil power	200mW	200/360mW	200mW

Dielectric Strength

Initial dielectric strength			
between open contacts	1000Vrms	1000Vrms	750Vrms
between contact and coil	4000Vrms	4000/3000Vrms	4000Vrms
between adjacent contacts			
Clearance/creepage			
between contact and coil	3.2/4mm	4/4mm	8/>8mm

Other Data

Ambient temperature (max.)	+ 85°C	+70°C (RE)/ + 85°C (REL)	+ 85/ +105°C (WG type)
Category of environmental protection IEC61810	RTII, RTIII	RTIII(RE), RTII(REL)	RTII, RTIII
Terminal type	THT	THT	THT
Mounting	PCB	PCB	PCB
Dimensions	20x10x10mm	20x10x10.6mm/20.7x10.7x12mm	20.4x7x15mm

Accessories

Link to datasheet	SCHRACK PE	SCHRACK RE SCHRACK REL	PCJ
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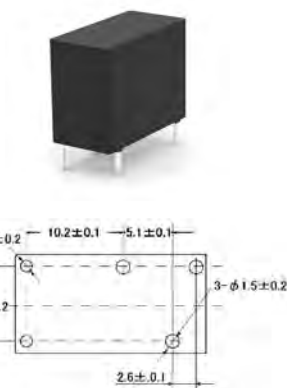
1) Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC; AgCdO and AgSnO₂: 100mA at 12VDC. Please contact technical support for detailed technical data.
2) Footprint images are representative. For a complete selection, refer to the TE data sheet via the link above.

Power PCB Relays up to 16A

Key Features

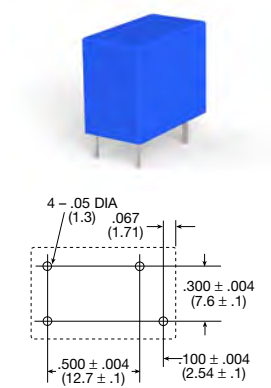
PCH

Compact size
WG type available (IEC 60335-1)
TV-3 ratings for NO contact



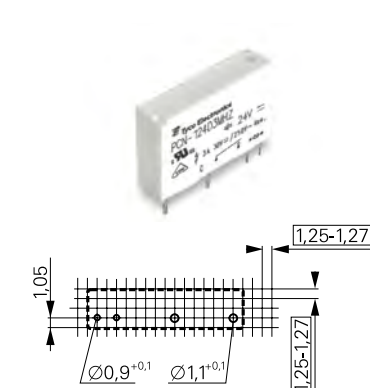
OJ/OJE/T77

Miniature size
Sensitive coil 200mW
4kV coil-contacts (OJ/OJT)
Meet UL TV-5 ratings (OJT)



PCN/PCNH

1 pole 3A/5A
Only 5mm wide
Allows high function/packaging density
RoHS compliant
(Directive 2002/95/EC)



Footprint

2) see footnote below

Applications	Appliances HVAC Refrigerators, microwave ovens	Appliances HVAC Industrial control	PLC Temperature control I/O modules
Contact Data			
Contact arrangement	1 form C (CO), 1 form A (NO)	1 form A (NO)	1 form A (NO)
Rated voltage	277VAC/30VDC	250VAC/28VDC	250VAC
Rated current	3/5/10A	3/5/8/10A	3A/5A
Switching power / Max. break	1400VA/150W (NO) 850VA/90W (NC)	720 to 2500VA/ 90 to 240W	750VA /1250VA
Contact material	AgSnO ₂	Ag, AgCdO, AgSnO ₂	AgNi gold plated
Min. recommended contact load	100mA at 5VDC	1) see footnote below	100mA at 5VDC
Coil Data			
Magnetic system	DC, sensitive	DC, sensitive	DC
Rated coil voltage	3 to 48VDC	3 to 48VDC	3 to 24VDC
Rated coil power	200/400mW	200/250/450mW	100mW/120mW
Dielectric Strength			
Initial dielectric strength			
between open contacts	750Vrms	750/1000Vrms	750Vrms
between contact and coil	4000Vrms	3000/4000Vrms	3000Vrms
between adjacent contacts			
Clearance/creepage			
between contact and coil	1.6/3.2mm	1.6/3.2mm and 3.2/6.4mm	3.5mm
Other Data			
Ambient temperature (max.)	+70°C (standard)/+85°C (WG type)	up to 85°C	+85°C
Category of environmental protection IEC61810	RTII, RTIII	RTII, RTIII	RTIII
Terminal type	THT	THT	THT
Mounting	PCB	PCB	PCB
Dimensions (lwh)	20x10x15.2mm	18.2x10.2x14.7mm	20x5x12.5mm
Accessories			
Link to datasheet	PCH	OJ/OJE T77	PCN

1) Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC; AgCdO and AgSnO₂: 100mA at 12VDC. Please contact technical support for detailed technical data.

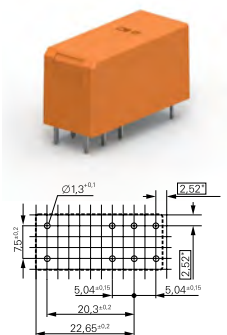
Power PCB Relays up to 16A

Relays, Contactors & Circuit Breakers

Key Features

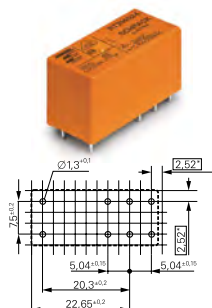
SCHRACK RZ

High performance version available
Reinforced insulation
High ambient temperature version (105°C)
WG type available (IEC 60335-1)
AgNi and AgSnO contact versions
THR (reflow) version



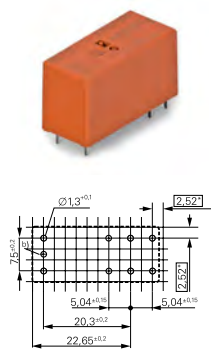
SCHRACK RT

DC and AC coil
Mono-or bistable coil
Reinforced insulation
WG type available (IEC 60335-1)
High ambient temperature version (105°C)
THR (reflow) version
Sensitive version
Bifurcated contacts



SCHRACK RT INRUSH

For inrush peak currents up to 80A
Mono-or bistable coil
Reinforced insulation
WG type available (IEC 60335-1)



Footprint

2) see footnote below

Applications

Household appliances
HVAC, Home automation
Machine control, Energy control

HVAC, Home automation,
Machine control, Energy control
Switching cabinet, Interface modules

Lighting applications, Movement
detectors, Motors control,
Domestic appliances

Contact Data

Contact arrangement	1 form C (CO) 1 form A (NO)	1 form C (CO), 1 from A (NO) 2 form C (CO), 2 form A (NO)	1 form C (CO) 1 from A (NO)
Rated voltage	250VAC	250VAC	250VAC
Rated current	16A	2X8/16A	16A
Switching power / Max. break	4000VA	2X2000/4000VA	4000VA
Contact material	AgNi90/10, AgSnO ₂	AgNi90/10, AgSnO ₂	AgNi90/10, AgSnO ₂
Min. recommended contact load	1) see footnote below	1) see footnote below	1) see footnote below

Coil Data

Magnetic system	DC	DC, AC, bistable	DC, bistable
Rated coil voltage	5 to 48VDC	5 to 110VDC/24 to 230VAC	5 to 11VDC
Rated coil power	400mW	400mW/0.75VA	400mW

Dielectric Strength

Initial dielectric strength			
between open contacts	1000Vrms	1000Vrms	1000Vrms
between contact and coil	5000Vrms	5000Vrms	5000Vrms
between adjacent contacts		2500Vrms	
Clearance/creepage			
between contact and coil	>10/10mm	>10/10mm	>10/10mm

Other Data

Ambient temperature (max.)	+85°C +105°C (HOT type) +70°C (transparent cover type)	+75°C (AC type) +85°C	+85°C
Category of environmental protection IEC61810	RTII, RTIII	RTII, RTIII	RTII
Terminal type	THT	THT, THR (DC and AC type)	THT
Mounting	PCB	PCB or on socket	PCB or socket
Dimensions (lwh)	29x12.7x15.7mm	29x12.7x15.7mm	29x12.7x15.7mm

Accessories

PCB and DIN rail sockets

Link to datasheet

[SCHRACK RZ](#)

[SCHRACK RT](#)

[SCHRACK RT INRUSH](#)

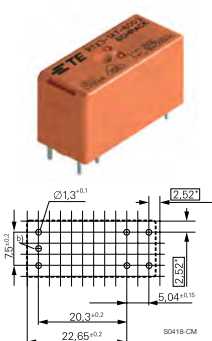
1) Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC; AgCdO and AgSnO₂: 100mA at 12VDC. Please contact technical support for detailed technical data.
2) Footprint images are representative. For a complete selection, refer to the TE data sheet via the link above.

Power PCB Relays up to 16A

Key Features

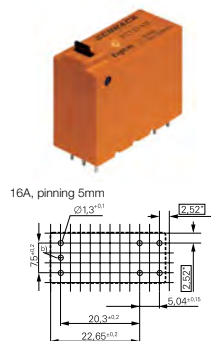
SCHRACK RTX

Inrush peak currents up to 370A
Bistable coil
Reinforced insulation
16A rated fluorescent load acc.
EN60669-1
8A electronic ballast acc. UL508
1 1/2 HP motor load acc. UL508



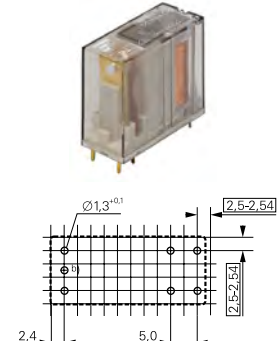
SCHRACK RT iPOWER

High Inrush peak currents up to 165A
(20ms) and 800A (200µs)
Mono-or bistable coil
RTS3T: 5A Electronic ballast acc. UL508
RTSET: 8A Electronic ballast acc. UL508
Test tab (manual operator) optional for
RTT3T bistable versions



SCHRACK RP3SL

Inrush peak currents up to 120A (20ms)
Mono- or bistable coil
Sealed version available



Footprint

2) see footnote below

Applications

- Lighting control systems
- Motion sensors
- Home automation applications

LED lighting systems, Lighting control, Movement detectors
Filament and incandescent lamp
Motor control

Lighting control
Motor control
Building automation

Contact Data

Contact arrangement	1 from A (NO)	1 from A (NO)	1 form A, 1 NO
Rated voltage	250VAC	250VAC	250VAC
Rated current	16A	16A	16A
Switching power / Max. break	4000VA	4000VA	4000VA
Contact material	W (pre-make contact) + AgSnO ₂	W (pre-make contact) + AgSnO ₂ AgSnO ₂	AgSnO ₂
Min. recommended contact load	1) see footnote below	1) see footnote below	100mA at 12VDC

Coil Data

Magnetic system	Bistable	DC, bistable	DC
Rated coil voltage	5 to 48VDC	5 to 11VDC	6 to 110VDC
Rated coil power	650mW/665mW	400mW	500mW

Dielectric Strength

Initial dielectric strength			
between open contacts	1250Vrms	1250Vrms	2000Vrms
between contact and coil	5000Vrms	5000Vrms	4000Vrms
between adjacent contacts			
Clearance/creepage			
between contact and coil	min. 6/6mm	10/10mm	8/8mm

Other Data

Ambient temperature (max.)	+70°C	RTS3L/RTS3T +105°C, RTSET +85°C	+70°C
Category of environmental protection IEC61810	RTII	RTII	RTII, RTIII
Terminal type	THT	THT	THT
Mounting	PCB	PCB	PCB
Dimensions (lwh)	29.1x12.7x16mm	29x12.7x15.7mm (RTS3T), 29x12.7x16.0mm (RTS3L)	29x12.6x25.5mm

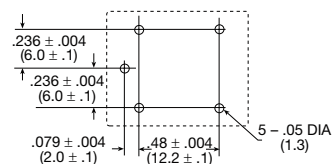
Accessories

Link to datasheet	SCHRACK RTX	SCHRACK RT IPOWER	SCHRACK RP3SL
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1) Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC; AgCdO and AgSnO₂: 100mA at 12VDC. Please contact technical support for detailed technical data.

Relays, Contactors & Circuit Breakers

Technical drawing of a rectangular plate. The overall width is 2.4 and the overall height is 5.0. The plate features a grid of 4 rows and 4 columns of holes. The holes are specified as $\varnothing 1,3^{+0,1}$. The distance between the center of the first and second column of holes is 2.5, and the distance between the center of the third and fourth column is 2.54. The distance between the center of the first and second row of holes is 2.5, and the distance between the center of the third and fourth row is 2.54. The holes are arranged in a staggered pattern.



Appliances
HVAC
Emergency lighting

Contact arrangement	2 form A, 2 NO	1 form C (CO) 1 form A (NO)	1 form C (CO) 1 form A (NO)
Rated voltage	250VAC	250VAC	277VAC/28VDC
Rated current	8A	10A	10A
Switching power / Max. break	2000VA	2500VA	2770VA/360W
Contact material	AgSnO ₂	AgNi90/10, AgSnO	AgZnO, AgNi
Min. recommended contact load	100mA at 12VDC	1) see footnote below	100mA at 5VDC

Magnetic system	DC	DC	DC
Rated coil voltage	5 to 110VDC	5 to 48VDC	5 to 24VDC
Rated coil power	780mW	360mW/500mW	360mW

Initial dielectric strength			
between open contacts	25000Vrms	1000Vrms	750Vrms
between contact and coil	5000Vrms	2500Vrms	1500Vrms
between adjacent contacts	300Vrms		
Clearance/creepage			
between contact and coil	7/8mm	3/4mm / 4/5mm	3.2mm

Ambient temperature (max.)	+40°C	+85°C/+105°C	+85°C
Category of environmental protection IEC61810	RTII, RTIII	RTII	RTII, RTIII
Terminal type	THT	THT	THT
Mounting	PCB	PCB	PCB
Dimensions (lwh)	29x12.6x25.5mm	15x15x20mm	19.0x15.5x15.8mm

Link to datasheet	SCHRACK RP-2POLE 1.5MM	SCHRACK PB SCHRACK PBH	SCHRACK ORWH
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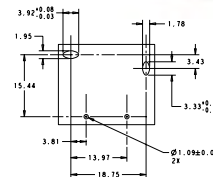
1) Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC; AgCdO and AgSnO₂: 100mA at 12VDC. Please contact technical support for detailed technical data.

Relays, Contactors & Circuit Breakers

1 pole 35A (T9S)/40A (T9V)
Contact gap 1.5mm/1.8mm min.
Ambient temperature up to 85°C at 35A
Production in accordance to IEC 60335-1
RoHS compliant (Directive 2002/95/EC)



2) see footnote below



1) Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC; AgCdO and AgSnO₂: 100mA at 12VDC. Please contact technical support for detailed technical data.

Power PCB Relays up to 50A+

Relays, Contactors & Circuit Breakers

Key Features

IHV

Hermetically sealed - intrinsically safe
Designed accordance to AIAG QS9000
No position sensitive
RoHS compliance



PCB mount not applicable.
Visit [TE.com](https://www.te.com) for more information

Potter & Brumfield PRD

Contact ratings to 50A
Magnetic blowout available for switching DC loads
SPDT auxiliary switch available
Class B insulation system



PCB mount not applicable.
Visit [TE.com](https://www.te.com) for more information

Applications

DC charging, Solar inverter, Energy store station
BMS, Electrical forklift, AGV, Rail transit
Circuit protection and Safety in Industrial Machinery

Industrial controls
Lighting

Contact Data

Contact arrangement	1 form X	1 form A (1 NO) 1 form C (1 CO) 1 form X (NO-DM) 2 form A (2 NO) 2 form C (2 CO) 600VAC, 28/125VDC
Rated voltage	450VDC / 750VDC	50A
Rated current	50A/100A/150A/200A/250A/350A	12000VA
Switching power / Max. break		Ag, AgCdO
Contact material		1A at 12VDC/VAC
Min. recommended contact load	Visit TE.com for more information	

Coil Data

Magnetic system	DC	DC, AC
Rated coil voltage	12VDC, 24VDC or PWM	6 to 110VDC/6 to 480VAC
Rated coil power	Visit TE.com for more information	2W/9.8VA

Dielectric Strength

Initial dielectric strength		2000Vrms
between open contacts		2000Vrms
between contact and coil	2000Vrms	2000Vrms
between adjacent contacts		2000Vrms
Clearance/creepage		
between contact and coil	Visit TE.com for more information	>8mm

Other Data

Ambient temperature (max.)	+85°C	DC +80°C AC +45°C
Category of environmental protection IEC61810	RTV	RT 0/open
Terminal type	Screw	Screw/Quick connect
Mounting	Panel mount	Panel mount
Dimensions (lwh)	Visit TE.com for more information	85.7X63.8X63.5mm

Accessories

Dust cover

Link to datasheet

[Potter & Brumfield PRD](#)

1) Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC; AgCdO and AgSnO₂: 100mA at 12VDC. Please contact technical support for detailed technical data.