



TE Connectivity (TE) has extensive capabilities in the design and manufacture of relays and a broad portfolio of switching solutions for demanding, high performance applications. These relay products are remotely actuated to control electrical power flow by either interrupting or completing an electrical circuit.

Complying with standardized PCB footprints, TE offers a wide range of inrush current capabilities and addresses the complete spectrum of requirements for production lines, robotics, elevators, control panels, CNC machines, motion control systems, lighting, building systems, solar, HVAC, and an array of safety-critical applications. Through agency approved test labs, we ensure that our relays are tested to meet the expectations of the industry. Whether you are designing for harsh or indoor applications, TE delivers high quality relays from state-of-the-art production lines.



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RELAYS, CONTACTORS & CIRCUIT BREAKERS

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MOTION CONTROL



WHAT'S INSIDE



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

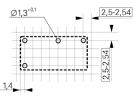


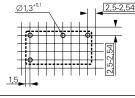


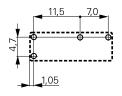


Footprint

2) see footnote below







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|---------|--|
| | |

Industrial electronics White goods

Measurement and control

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

Home applications **HVAC**

Contact Data

1 form C (CO) Contact arrangement Rated voltage 250VAC Rated current 5A (CO) 6A (NO) Switching power / Max. break 1250VA

Contact material AgNi 90/10, AgSnO 1) see footnote below Min. recommended contact load

1 form A (NO) 250VAC 6/5A

1500/1250VA

750VA/1250VA (WG type) AgNi 0.15, AgNi 90/10 AaNi 1) see footnote below

100mA at 5VDC

750Vrms

PCB

4000Vrms

1 form A (NO)

3A/5A (WG type)

250VAC

Coil Data

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

Dielectric Strength Initial dielectric strength

between open contacts

between contact and coil

between adjacent contacts Clearance/creepage 3.2/4mm 4/4mm 8/>8mm between contact and coil Other Data Ambient temperature (max.) + 85°C +70°C (RE)/ + 85°C (REL) + 85/ +105°C (WG type) Category of environmental RTIII(RE), RTII(REL) RTII, RTIII RTII, RTIII protection IEC61810 Terminal type THT THT THT

1000Vrms

4000/3000Vrms

20x10x10.6mm/20.7x10.7x12mm

Dimensions Accessories

Mounting

Link to datasheet **SCHRACK PE SCHRACK RE PCJ SCHRACK REL**

1000Vrms

4000Vrms

PCB

20x10x10mm

20.4x7x15mm



Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC: AgCdO and AgSnO,; 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.

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)

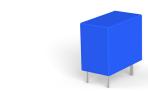
PCN/PCNH

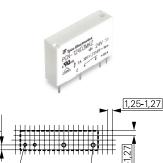
1 pole 3A/5A Only 5mm wide

Allows high function/packaging density

RoHS compliant (Directive 2002/95/EC)



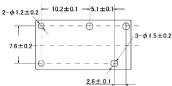




 \emptyset 1,1 $^{+0}$

Footprint

2) see footnote below



.300 ± .004 (7.6 ± .1) .100 ± .004 (2.54 ± .1) .500 ± .004 (12.7 ± .1)

Applications

Appliances HVAC

AgSnO₂

100mA at 5VDC

Refrigerators, microwave ovens

Appliances HVAC Industrial control PLC

Temperature control I/O modules

Ø0,9^{+0,1}

Contact Data

Contact material

Min. recommended

1 form C (CO), 1 form A (NO) Contact arrangement 1 form A (NO) 1 form A (NO) 277VAC/30VDC 250VAC/28VDC Rated voltage 250VAC Rated current 3/5/10A 3/5/8/10A 3A/5A Switching power / Max. break 1400VA/150W (NO) 720 to 2500VA/

850VA/90W (NC) 90 to 240W

Ag, AgCdO, AgSnO, 1) see footnote below 750VA /1250VA

AgNi gold plated 100mA at 5VDC

contact load **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 **PCN** <u>T77</u>



Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC: AgCdO and AgSnO₃: 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.

SCHRACK SNR

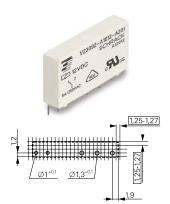
5mm wide slim outline Strong coil pins for DIN-rail socket Allows high function/ packaging density

SCHRACK RYII

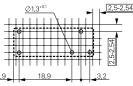
Reflow solderable version Low height 12.3mm Reinforced insulation Pinnings 3.2mm and 5mm

SCHRACK MSR/T75

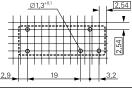
High inrush currents with AgSnO contacts 4kV/8mm coil-contact Reinforced insulation











Footprint 2) see footnote below

> Interface technology PLC, timers, Heating control

Interface technology HVAC, PLC, Power supplies Domestic appliances

Interface technology HVAC, PLC, Power supplies Domestic appliances

Contact Data

Accessories

Link to datasheet

Applications

| Contact Data | | | |
|---|---|--|--------------------------------|
| Contact arrangement | 1 form C (CO), 1 form A (NO) | 1 form C (CO), 1 form A (NO), 1 from B (NC) | 1 form C (CO) 1 form A (NO) |
| Rated voltage | 250VAC | 250VAC | 250VAC |
| Rated current | 6A | 8A | 8/10A |
| Switching power / Max. break | 1500VA | 2000VA | 2000VA |
| Contact material | AgSnO ₂ , AgSnO ₂ gold plated | AgNi0.15, AgSnO ₂ , AgNi 0.15 gold plated | AgNi90/10, AgSnO ₂ |
| Min. recommended contact load | 100mA at 12VDC | 1) see footnote below | 1) see footnote below |
| Coil Data | | | |
| Magnetic system | DC | DC | DC |
| Rated coil voltage | 5 to 48VDC | 5 to 60VDC | 3 to 60VDC |
| Rated coil power | 170/217mW | (223 - 257)mW | (212-262)mW |
| Dielectric Strength | | | |
| Initial dielectric strength | | | |
| between open contacts | 1000Vrms | 1000Vrms | 1000Vrms |
| between contact and coil | 4000Vrms | 5000Vrms | 4000Vrms |
| between adjacent contacts | | | |
| Clearance/creepage | | | |
| between contact and coil | 6/8mm | 8/8mm | 8/8mm |
| Other Data | | | |
| Ambient temperature (max.) | +85°C | +70°C | +85°C |
| Category of environmental protection IEC61810 | RTIII | RTII, RTIII | RTII, RTIII |
| Terminal type | THT | THT, THR | THT |
| Mounting | PCB or on socket | PCB or on socket | PCB |
| Dimensions (lwh) | 28x5x15mm | 28.5x10.1x12.3mm | 28.6x10x15mm |

PCB sockets

SCHRACK RYII

DIN rail sockets

SCHRACK SNR

SCHRACK MSR



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.

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

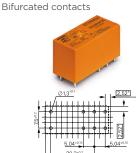
DC and AC coil

Mono-or bistable coil Reinforced insulation

WG type available (IEC 60335-1)

High ambient temperature version (105°C)

THR (reflow) version Sensitive version

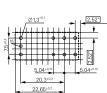


SCHRACK RT INRUSH

For inrush peak currents up to 80A Mono-or bistable coil Reinforced insulation

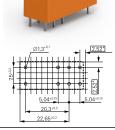
WG type available (IEC 60335-1)





Footprint

2) see footnote below



Household appliances

HVAC, Home automation, Machine control, Energy control Switching cabinet, Interface modules Lighting applications, Movement detectors, Motors control, Domestic appliances

Applications

HVAC, Home automation Machine control, Energy control

Contact Data

Contact arrangement 1 form C (CO) 1 form A (NO) Rated voltage

Rated current Switching power / Max. break

Contact material Min. recommended contact load

250VAC 16A

4000VA AgNi90/10, AgSnO 1) see footnote below 1 form C (CO), 1 from A (NO) 2 form C (CO), 2 form A (NO)

250VAC 2X8/16A 2X2000/4000VA

AgNi90/10, AgSnO 1) see footnote below

1 form C (CO)

1 from A (NO) 250VAC 16A 4000VA

AgNi90/10, AgSnO 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 400mW/0.75VA Rated coil power 400mW 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

Ambient temperature (max.)

Category of environmental

protection IEC61810

Other Data

Terminal type

Dimensions (lwh)

Link to datasheet

Mounting

>10/10mm between contact and coil

>10/10mm

+75°C (AC type) +85°C +105°C (HOT type) +85°C

+70°C (transparent cover type)

RTII, RTIII

THT

PCB 29x12.7x15.7mm RTII, RTIII

THT, THR (DC and AC type) PCB or on socket

29x12.7x15.7mm

RTII

+85°C

>10/10mm

PCB or socket

29x12.7x15.7mm

Accessories PCB and DIN rail sockets

SCHRACK RZ

SCHRACK RT

SCHRACK RT INRUSH



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.

SCHRACK RTX

Inrush peak currents up to 370A Bistable coil

Reinforced insulation

16A rated fluorescent load acc. EN60669-1

8A electronic ballast acc. UL508 11/2 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

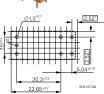
SCHRACK RP3SL

Inrush peak currents up to 120A (20ms)

Mono-or bistable coil Sealed version available



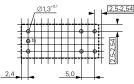












Applications

2) see footnote below

Footprint

Lighting control systems

1) see footnote below

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) Rated voltage 250VAC 250VAC Rated current 16A 16A 16A Switching power / Max. break 4000VA 4000VA Contact material W (pre-make contact) + AgSnO₂ W (pre-make contact) + AgSnO₂

AgSnO₂

10/10mm

1) see footnote below

1 form A, 1 NO 250VAC 4000VA AgSnO₂

100mA at 12VDC

contact load Coil Data

Min. recommended

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 Other Data

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

Accessories

Link to datasheet **SCHRACK RTX SCHRACK RT IPOWER** SCHRACK RP3SL

min. 6/6mm

8/8mm



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.

SCHRACK RP-2POLE 1.5MM

2 pole 8A 1.5mm contact gap per pole Creepage distance complies with IEC 60950

Sealed version available

gives high process security High ambient temperature version up to 105°C (PBH)

Compact and simple design

WG type acc. IEC 60335-1

SCHRACK PB/PBH

SCHRACK ORWH

Compact relay with 1 form A and 1 form C contact arrangement 10A switching capacity

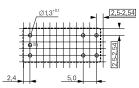






Footprint

2) see footnote below



.236 ± .004 (6.0 ± .1) - .05 DIA (1.3) $.079 \pm .004 \\ (2.0 \pm .1)$

Applications

Domestic appliances

UPS

Solar Inverter

White goods Small home appliances Heating temperature controllers

HVAC

Appliances

Emergency lighting

| Con | tact | Data |
|-----|------|------|
| | | |

| 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 | | 2500VA | 2770VA/360W |
| Contact material | AgSnO | AgNi90/10, AgSnO | AgZnO, AgNi |
| Min. recommended contact load | 100mA at 12VDC | 1) see footnote below | 100mA at 5VDC |
| Coil Data | | | |
| Magnetic system | DC | DC | DC |
| Rated coil voltage | 5 to 110VDC | 5 to 48VDC | 5 to 24VDC |
| Rated coil power | 780mW | 360mW/500mW | 360mW |
| Dielectric Strength | | | |
| 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 |
| Other Data | | | |
| 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 |
| Accessories | | | |

SCHRACK PB

SCHRACK PBH

SCHRACK RP-2POLE 1.5MM

SCHRACK ORWH



Link to datasheet

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 AgSnO.; 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.

Potter & Brumfield T9G

High breaking capacity PCB and quick connect connections 4kV coil-contact Minimum board space (29mm x 21.5mm)

Potter & Brumfield T9A

High breaking capacity PCB and quick connect and chassis mount version UL-class F as standard Open version available

Potter & Brumfield T9S/T9V

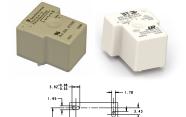
1 pole 35A (T9S)/40A (T9V) Contact gap 1.5mm/1.8mm min. Ambient temperature up to 85°C at 35A Production in accordance to IEC 60335-1 RoHS compliant (Directive 2002/95/EC)



UL-class F as standard







Footprint

2) see footnote below





HVAC Appliances

1 form C (1 CO)

Photovoltaic inverter Electrical vehicle loading stations Electrical vehicle

1 form A (1NO)

Applications

HVAC, Appliances Industrial control Energy management

Industrial controls

Contact Data

Contact arrangement 1 form C (1 CO) 1 form B (1 NC) 1 form A (1 NO) Rated voltage 250VAC

250VAC

30A Rated current Switching power / Max. break Contact material

AgSnO₂ 1A at 12VAC/VDC

1 form B (1 NC) 1 form A (1 NO) 277VAC (1.5mm gap), 250VAC

(1.8mm gap) 30A 35A (T9S), 40A (T9V)

7500VA 9695VA (T9S), 10000VA (T9V) AgCdO, AgSnInO AgNi

1A at 5VDC or 12VAC 1A at 5VDC/12VAC

Coil Data

Min. recommended contact load

Magnetic system DC DC Monostable 6 to 48VDC Rated coil voltage 5 to 110VDC 12VDC Rated coil power 900mW 1W/900mW 2.25W

Dielectric Strength

Initial dielectric strength between open contacts 1500Vrms 1500Vrms 2500Vrms between contact and coil 4000Vrms 2500Vrms 4000Vrms between adjacent contacts

Clearance/creepage

between contact and coil >6.4mm/>8mm 3.1/6.3mm 3/4mm

Other Data

+105°C Ambient temperature (max.) Category of environmental RTII, RTIII protection IEC61810

Terminal type THT/Quick connect PCB

Mounting Dimensions (lwh) 29x21.5x15.7mm +85°C

RTO, RTI, RTII, RTIII

THT/Quick connect PCB, panel mount 32.3x27.4x20.4mm

+85°C

RTII/RTIII PCB

PCB 32x27x20mm

Accessories

Link to datasheet **POTTER & BRUMFIELD T9G POTTER & BRUMFIELD T9A** Potter & Brumfield T9V Potter & Brumfield T9S

²⁾ Footprint images are representative. For a complete selection, refer to the TE data sheet via the link above.



Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC: AgCdO and AgSnO₃: 100mA at 12VDC. Please contact technical support for detailed technical data.

Potter & Brumfield T92

Switching capacity 7500VA DC or AC coil 4kV/8mm coil-contact PCB or quick connect connections

or chassis mount

PCF

load (PCF only) Height 26.5mm Meet 4kV dielectric voltage between coil and contact Ambient temperature 85°C

Quick connect terminal for

PCFN SOLAR

Specially designed to meet the requirements for solar Contact gap 1.5mm/1.8mm min. 200mW hold power



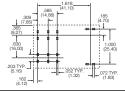


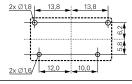
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Footprint

2) see footnote below





Applications

HVAC

Residential/commercial appliances

Industrial controls

Applicances HVAC

Office machines

Photovoltaic Inverter

Contact Data

Contact arrangement 2 form C (2 CO) 1 form A (1 NO) 1 form A (1 NO)

2 form A (2 NO)

2000Vrms

Rated voltage 400VAC 250VAC Rated current 30A 25A 26A Switching power / Max. break 6370VA 7200VA 7500VAC Contact material AgCdO, AgSnInO

Min. recommended 500mA (NO)/100mA (NC) 100mA at 5VDC

contact load at 12VAC 277VAC

10.2) .472 ± .00 1.228 (12.0 ± .2) (5.8)

Visit **TE.com** for more information AgSnO₂

100mA at 5VDC

Coil Data

Magnetic system DC, AC DC DC

Rated coil voltage 5 to 110VDC/12 to 240VAC 6 to 24VDC 12VDC and 24VDC Rated coil power 1.7W/4.0VA 900mW 1.5W/200mW hold power

Dielectric Strength

Initial dielectric strength between open contacts 1500Vrms 1000Vrms 2500Vrms between contact and coil 4000Vrms 4000Vrms 4000Vrms

Clearance/creepage

between adjacent contacts

between contact and coil 8/9.5mm 6.7/>8mm 6.1/6.1mm

Other Data

DC Coil +85°C; AC Coil +65°C Ambient temperature (max.) +85°C +85°C Category of environmental RTI, RTII, RTIII RTII RTII protection IEC61810

Terminal type THT/Quick connect THT/Quick connect (#250) PCB-THT Mounting Panel mount, PCB PCB PCB

Dimensions (lwh) 52.3x34.6x30.8mm 30.4x16x26.5mm 30.4x16x26.5mm

Accessories

Link to datasheet **POTTER & BRUMFIELD T92 PCF PCFN SOLAR**



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

EW60

Key Features 1 pole 60A, 1 form A (NO) contact

Polarized bistable (latching) with 1 or 2 coils

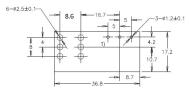
NEMA 410-2011, 16A, 277VAC, electronic ballast; 20A branch circuit

480A inrush, 2.1m sec



Footprint

2) see footnote below



Applications Lighting control, bus actuator,

power distribution, circuit protection, inverter

Contact Data

Contact arrangement 1 form A (1 NO)
Rated voltage 440VAC
Rated current 60A
Switching power / Max. break 15000VA
Contact material AgSnO,

Min. recommended contact load Visit <u>TE.com</u> for more information

Coil Data

Magnetic systemBistableRated coil voltage5 to 24VDCRated coil power1.5W/3W

Dielectric Strength

Initial dielectric strength

between open contacts 1500Vrms between contact and coil 4000Vrms

between adjacent contacts

Clearance/creepage

between contact and coil ≥6/9mm

Other Data

Ambient temperature (max.) +70°C
Category of environmental protection IEC61810 RTI
Terminal type PCB
Mounting PCB

Dimensions (lwh) 36.8×17.2×30.4mm

Accessories

Link to datasheet <u>EW60</u>

²⁾ Footprint images are representative. For a complete selection, refer to the TE data sheet via the link above.



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.

IHV

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



PCB mount not applicable. Visit <u>TE.com</u> 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 <u>TE.com</u> 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) |
| Rated voltage | 450VDC / 750VDC | 600VAC, 28/125VDC |
| Rated current | 50A/100A/150A/200A/250A/350A | 50A |
| Switching power / Max. break | | 12000VA |
| Contact material | | Ag, AgCdO |
| Min. recommended contact load | Visit TE.com for more information | 1A at 12VDC/VAC |
| Coil Data | | |
| Magnetic system | DC | DC, AC |
| Rated coil voltage | 12VDC, 24VDC or PWM | 6 to 110VDC/6 to 480VAC |
| Rated coil power | Visit <u>TE.com</u> for more information | 2W/9.8VA |
| Dielectric Strength | | |
| Initial dielectric strength | | |
| between open contacts | | 2000Vrms |
| between contact and coil | 2000Vrms | 2000Vrms |
| between adjacent contacts | | 2000Vrms |
| Clearance/creepage | | |
| between contact and coil | Visit <u>TE.com</u> for more information | >8mm |
| Other Data | | |
| Ambient temperature (max.) | +85°C | DC +80°C |
| | | AC +45°C |
| Category of environmental protection IEC61810 | RTV | RT O/open |
| Terminal type | Screw | Screw/Quick connect |
| Mounting | Panel mount | Panel mount |
| Dimensions (lwh) | Visit <u>TE.com</u> for more information | 85.7X63.8X63.5mm |
| Accessories | | Dust cover |
| Link to datasheet | | POTTER & BRUMFIELD PRD |

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.



SCHRACK SR2M

2 pole relay with force guided contacts according to EN50205

Reinforced insulation between poles

SCHRACK SR4 D/M

4 pole relay with force guided contacts according to EN50205

Compact design, space efficient

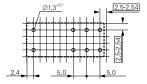






Footprint

2) see footnote below



| | | | | | | 1,3** | | |
|-----|-----|---|-------|---|-----|-------|-----|--|
| 9.7 | | · | | | | | | |
| - | 3,4 | · | 18,05 | ` | 5,0 | 6,5 | 5,0 | |

| Applications | Safety modules | Safety modules |
|---|--|--|
| | Process technology | Process technology |
| | Elevator and Escalator control | Elevator and Escalator control |
| Contact Data | | |
| Contact arrangement | 1 form A + 1 from B (1 NO + 1 NC) 2 form C (2 CO) | 3 form A + 1 form B (3 NO + 1 NC) 2 form A + 2 form B (2 NO + 2 NC) |
| Rated voltage | 250VAC | 250VAC |
| Rated current | 6A | 8A |
| Switching power / Max. break | 1500VA | 2000VA |
| Contact material | AgNi | AgSnO ₂ |
| Min. recommended contact load | 10mA at 5VDC | 10mA at 5VDC |
| Coil Data | | |
| Magnetic system | DC | DC |
| Rated coil voltage | 5 to 110VDC | 5 to 110VDC |
| Rated coil power | 700mW | 800mW |
| Dielectric Strength | | |
| Initial dielectric strength | | |
| between open contacts | 1500Vrms | 1500Vrms |
| between contact and coil | 4000Vrms | 4000Vrms |
| between adjacent contacts | 3000Vrms | 2500Vrms |
| Clearance/creepage | | |
| between contact and coil | 8/8mm | 10/10mm |
| Other Data | | |
| Ambient temperature (max.) | +70°C | +70°C |
| Category of environmental protection IEC61810 | RTIII | RTIII |
| Terminal type | THT/Plug-in | THT |
| Mounting | PCB/Socket | PCB |
| Dimensions (lwh) | 29x12.6x25.5mm | 40x13x16.5mm |
| Accessories | Sockets and relay clips | |
| Link to datasheet | SCHRACK SR2M | SCHRACK SR4 D/M |



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

SCHRACK SR6

4/6 pole relay with force guided contacts according to EN50205

Reinforced insulation between all contacts depending on version

SCHRACK SRL7

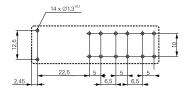
7 pole relay with force guided contacts according to EN50205





Footprint

2) see footnote below



| Applications | Safety modules | Safety modules |
|--------------|--------------------------------|--------------------------------|
| | Process technology | Process technology |
| | Elevator and escalator control | Elevator and escalator control |

| | Elevator and escalator control | Elevator and escalator control |
|---|---|-----------------------------------|
| Contact Data | | |
| Contact arrangement | 3 form A + 1 form B (3 NO + 1 NC) 2 form A + 2 form B (2 NO + 2 NC) 3 form A + 3 form B (3 NO + 3 NC) 4 form A + 2 form B (4 NO + 2 NC) 5 form A + 1 form B (5 NO + 1 NC) | 2 form B + 5 form A (2 NC + 5 NO) |
| Rated voltage | 250VAC | 250VAC |
| Rated current | 8A | 6A |
| Switching power / Max. break | 2000VA | 1500VA |
| Contact material | AgSnO ₂ | Ag alloy |
| Min. recommended contact load | 10mA at 5VDC | 10mA at 5VDC |
| Coil Data | | |
| Magnetic system | DC | DC |
| Rated coil voltage | 5 to 110VDC | 5 to 110VDC |
| Rated coil power | 1200/800mW | 700mW |
| Dielectric Strength | | |
| Initial dielectric strength | | |
| between open contacts | 1500Vrms | 1000Vrms |
| between contact and coil | 4000Vrms | 2500/4000Vrms |
| between adjacent contacts | 3000/4000Vrms | 2500/4000Vrms |
| Clearance/creepage | | |
| between contact and coil | 5.5/5.5mm, 15/15mm | ≥3/4mm and ≥5.5/5.5mm |
| Other Data | | |
| Ambient temperature (max.) | +70°C | +85°C |
| Category of environmental protection IEC61810 | RTIII | RTII |
| Terminal type | THT | THT |
| Mounting | PCB | PCB |
| Dimensions (lwh) | 55x16.5x16.5mm | 55.5x33.8x10.8mm |
| Accessories | | |
| Link to datasheet | SCHRACK SR6 | SCHRACK SRL7 |
| | | |



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

SCHRACK SLIM INTERFACE SCHRACK INTERFACE **SNR**

Strong coil pins for DIN-rail socket LED and protection circuit standard 4kV coil-contact, 6/8mm clearance/ System width only 6.2mm

RELAY RT

Strengthened pins designed to plug into DIN-rail-sockets Cadmium-free contacts Complete interface solutions available Modular concept socket/relay/module

SCHRACK INTERFACE RELAY XT

Manual test tab, optionally lockable Mechanical and electrical indicator Reinforced insulation 4kV/8mm dielectric strength between coil and contact

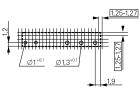


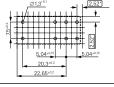


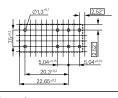


Footprint

2) see footnote below







Applications Interface technology

Panel board

Mechanical engineering

Panel board Mechanical engineering Machine Industry

Panel boards Mechanical engineering

Contact Data

| Coil Data | | | |
|-------------------------------|---|---|--------------------------------------|
| Min. recommended contact load | 1) see footnote below | 1) see footnote below | 10mA at 12VDC |
| Contact material | AgSnO ₂ , AgSnO ₂ Au plated | AgSnO ₂ , AgNi90/10 AgNi90/10 Au plated | AgNi90/10 |
| Switching power / Max. break | 1500VA | 2000/4000VA | 2000/4000VA |
| Rated current | 6A | 8/16A | 8/16A |
| Rated voltage | 250VAC | 240VAC | 240VAC |
| Contact arrangement | 1 form C, (CO) | 1 form C, (1 CO) 2 form C, (2 CO) | 1 form C, (1 CO) 2 form C, (2 CO) |

Link to datasheet

DC DC, AC DC, AC Magnetic system

| Rated coil voltage Rated coil power | 5 to 60VDC 170mW | 5 to 110VDC/24 to 230VAC 400mW/0.75VA | 12 to 110VDC/24 to 230VAC 400mW/0.75VA |
|---|-------------------------------|--|---|
| Dielectric Strength | | | |
| Initial dielectric strength | | | |
| between open contacts | 1000Vrms | 1000Vrms | 1000Vrms |
| between contact and coil | 4000Vrms | 4000/5000Vrms | 4000/5000Vrms |
| between adjacent contacts | | 2500Vrms | 2500Vrms |
| Clearance/creepage | | | |
| between contact and coil | ≥6/8mm | ≥8/8mm | ≥8/8mm |
| Other Data | | | |
| Ambient temperature (max.) | Relay +85°C, in socket +55°C | +70/+85°C | +70/+85°C |
| Category of environmental protection IEC61810 | RTIII | RTII | RTII |
| Terminal type | Plug-in | Plug-in | Plug-in |
| Mounting | Socket | Socket | Socket |
| Dimensions (lwh) | 28x5x15mm | 29x13x15.7mm | 29x13x26.7mm |
| Accessories | DIN rail sockets, jumper bars | DIN rail and PCB sockets, | DIN rail and PCB sockets, |



SCHRACK SLIM INTERFACE SNR

jumper bars

clips, marking tags, modules, jumper clips, marking tags, modules,

SCHRACK INTERFACE RELAY RT



SCHRACK INTERFACE RELAY XT

Footprint images are representative. For a complete selection, refer to the TE data sheet via the link above.

Potter & Brumfield R10

Broad range of coil options provide sensitivity ranging from 25 to 750mW Various contacts switch from dry circuit to 7.5A

Many mounting and termination options

SCHRACK PT/ **Potter & Brumfield KH**

Sensitive coil

Low height 29/33mm Manual test tab, optionally lockable Mechanical indicator

Optional LED, protection diode



Potter & Brumfield K10

top flange

DC and AC coils

LED versions available

Mounting options include socket, PCB,



Footprint

2) see footnote below

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| _ | | | | | |

Coin changers Industrial controls **Applications** Machine industry Audio equipment Elevator industry Motor controls

| | Addio equipment | D. I. I. | India controls | |
|-------------------------------|-------------------------------|---|-------------------------|--|
| | Ultrasonic test equipment | Building management | Industrial timers | |
| Contact Data | | | | |
| Contact arrangement | 1, 2, 3, 4, 6, 8 form C (CO) | 2 form C (2 CO) 3 form C (3 CO) 4 form C (4 CO) | 2 form C (2 CO) | |
| Rated voltage | 115VAC, 115VDC | 240VAC | 120/240VAC | |
| Rated current | 0.5/2/3/7.5A | 1/2/5/6/10/12A | 10/15A | |
| Switching power / Max. break | 862VA max. | 1500/2500/3000VA | 1800/2500VA | |
| Contact material | Ag, AgCdO, Ag w/ Au overlay | AgNi90/10, AgNi90/10 Au plated | AgCdO, AgNi90/10 | |
| Min. recommended contact load | Dry circuit to 300mA at 12VDC | Bifurcated contacts for dry circuit available on KH | 1) see footnote below | |
| Coil Data | | | | |
| Magnetic system | DC, AC | DC, AC | DC, AC | |
| Rated coil voltage | 3 to 115VDC/6 to 115VAC | 6 to 220VDC/6 to 240VAC | 6 to 220VDC/6 to 240VAC | |
| Rated coil power | 36mW to 1.6W/1.5VA | 750 to 900mW/1 to 1.2VA | 750 to 900mW/1 to 1.2VA | |
| Dielectric Strength | | | | |
| Initial dielectric strength | | | | |
| between open contacts | 500/1000Vrms | 1200Vrms | 1200/1000Vrms | |
| | | | | |

| Rated coil voltage Rated coil power | 36mW to 1.6W/1.5VA | 750 to 900mW/1 to 1.2VA | 750 to 900mW/1 to 1.2VA |
|---|---|--|---|
| Dielectric Strength | | | |
| Initial dielectric strength | | | |
| between open contacts | 500/1000Vrms | 1200Vrms | 1200/1000Vrms |
| between contact and coil | 1000Vrms | 2500Vrms | 2500/1500Vrms |
| between adjacent contacts | 1000Vrms | 2000/2500Vrms | 2500/1500Vrms |
| Clearance/creepage | | | |
| between contact and coil | Visit TE.com for more information | ≥4/4mm | ≥3.1/3.1mm |
| Other Data | | | |
| Ambient temperature (max.) | +75°C | +70°C | +70°C |
| Category of environmental protection IEC61810 | RTI, RTIII | RTII | RTII |
| Terminal type | Solder/plug-in and PCB | THT, plug-in, Quick connect | Quick connect, solder, PCB |
| Mounting | Socket, panel mount and PCB | Socket, PCB | Socket and bracket mount |
| Dimensions (lwh) | 29.6x18.7x30.2mm | 28x22.5x29/30/36mm | 28x22.5x29/34.9mm |
| Accessories | Solder/PCB sockets, clips, hold down strap, mounting strip | DIN rail and PCB sockets, clips, marking tags, modules, jumper bars | Screw, solder and PCB sockets and clips |

Potter & Brumfield KHA

SCHRACK PT

POTTER & BRUMFIELD R10

POTTER & BRUMFIELD K10



Link to datasheet

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.

Footprint images are representative. For a complete selection, refer to the TE data sheet via the link above.

Footprint 2) see footnote below

Potter & Brumfield KRPA/MT

Industry standard octal/undecal type termination for quick installation

DC and AC coils

Mechanical indicator, indicator lamp and push-to-test options

PCB mount not applicable. Visit TE com for more information

SCHRACK RM2/3/7

Wide selection of termination and mounting styles PC terminals available Push to test button and indicator

Class B coil insulation

Potter & Brumfield KUP/ **KUMP/KUIP**

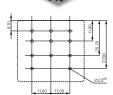
Wide selection of termination and mounting styles

Broad range of contact forms PC terminals available

Push to test button and indicator lamps Class B coil insulation









| Visit IL.com | _ | | | ļ | | |
|--------------|---|-------|-------|---|--------------------|--|
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| | | | | | | |

| Applications | Mechanical engineering Elevator control, Plant control Baggage handling | Elevator control Power supplies | HVAC Pump motor controls Hospital beds |
|--------------|---|------------------------------------|--|
| | 55-55 | | |

| Contact Data | | | |
|---------------------|--|------------------------------------|---|
| Contact arrangement | 1 form C (1 CO) (KRPA) 2 form C (2 CO) 3 form C (3 CO) | 2 form C (2 CO) 3 form C (3 CO) | 1, 2, 3, 4 form C (CO) 1, 2, 3 form A (NO) 2, 3 form B (NC) |

1 form X (NO-DM) 1 form Y (NC-DB) 1 from Z (CO-DM/DB) 400VAC 240VAC Rated voltage 240VAC 10/16A 4/10A 10/15A Rated current Switching power / Max. break 500/2400/2500VA 3800/6000VA 2400/4155VA

Contact material AgCdO, AgNi90/10, AgNi90/10 Au AgCdO, AgNi90/10 in preparation Ag, AgCdO, AgSnOInO plated

100mA at 12VDC(Ag) 300mA at 12VDC (AgCdO, AnSnOInO) 1) see footnote below Min. recommended 100mA at 12VDC contact load

| Coil | Data |
|------|------|
|------|------|

| Magnetic system | DC, AC | DC, AC | DC, AC |
|--------------------|-----------------------------|-------------------------|-------------------------|
| Rated coil voltage | 6 to 220VDC/6 to 240VAC | 6 to 220VDC/6 to 400VAC | 5 to 110VDC/6 to 240VAC |
| Rated coil power | 760mW to 1.3W/0.74 to 2.3VA | 1.2 to 1.8W/2 to 2.8VA | 1.2 to 1.8W/2 to 2.7VA |

Dielectric Strength

| Initial dielectric strength | | | |
|-----------------------------|---------------|-----------|--|
| between open contacts | 1000/1500Vrms | 1500Vrms | 1200Vrms |
| between contact and coil | 1000/2500Vrms | 2500Vrms | 2200/3750Vrms |
| between adjacent contacts | 1000/2500Vrms | 2500Vrms | 2200Vrms |
| Clearance/creepage | | | |
| between contact and coil | ≥2.8/4mm | ≥4/14.9mm | Visit TE.com for more information |

Other Data

| Link to datasheet | POTTER & BRUMFIELD KRPA SCHRACK MT | SCHRACK RM2/3/7 | Potter & Brumfield KUIP KUGP KUM KUMP KUP |
|--|--|--|--|
| Accessories | DIN rail and PCB sockets, clips, marking tags, modules | DIN rail and PCB sockets, clips | DIN rail, panel and PCB sockets, clips |
| Dimensions (lwh) | 35.7x35.7x50.8/57mm | 38.5x35.5x48.5mm | 38.9x35.7x48.4mm |
| Mounting | Socket | Socket, PCB, bracket, flange mount and DIN-snap-on | Socket, PCB, bracket, flange, stud and tapped core |
| Terminal type | Plug-in | THT, Plug-in, solder, Quick connect | THT, Plug-in, solder, Quick connect |
| Category of environmental protection IEC61810 | RTI | RTI | RTI |
| Ambient temperature (max.) | DC +60/+70°C AC +50/+55°C | +50/+70°C | DC +50/+70/+95°C AC +45/+55/+70°C |

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.

Footprint images are representative. For a complete selection, refer to the TE data sheet via the link above.



Footprint

SCHRACK RM8/C/D

Power relay with push-on and solder terminals

Various mounting options Indicator lamps and mechanical indicator

Optional push to test button

Potter & Brumfield KUHP

Power relay with push-on and solder terminals

Various mounting options Designed to meet VDE space requirements

Class B coil insulation

SCHRACK RM5/6/B 3MM

3mm contact gap DC or AC coil Push-to-test button

Plug-in version, PCB terminals or chassis or DIN-rail mount



2) see footnote below

PCB mount not applicable.

Visit <u>TE.com</u> for more information







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|---|--|--|--|
| Applications | Cleaning equipment | Baggage handling motors | Power supplies |
| | Heating equipment | Industrial pumps | Pump control |
| | Cooling equipment | Commercial ovens | |
| Contact Data | | | |
| Contact arrangement | 1 form C (1 CO) 2 form C (2 CO) 1 form Z contact (1 NO + 1 NC) 1 form X contact (1 NO) | 1 form C (1 CO) 2 form C (2 CO) | 2 form A (2 NO) 3 form A (3NO) |
| Rated voltage | 400VAC | 240VAC, 50/60Hz; 28VDC | 240/400VAC |
| Rated current | 25/30/32A | 20/30A | 10/16A |
| Switching power / Max. break | 6000/7500VA | 4800/7200VA | 3800/6000VA |
| Contact material | AgCdO, AgNi90/10 | AgCdO, AgSnOInO | AgCdO, AgNi90/10 in preparation |
| Min. recommended contact load | 100mA at 12VDC | 300mA at 12VDC | 100mA at 12VDC |
| Coil Data | | | |
| Magnetic system | DC, AC | DC, AC | DC, AC |
| Rated coil voltage | 6 to 220VDC/6 to 400VAC | 6 to 110VDC 50/60Hz. 6 to 277VAC | C 6 to 220VDC/6 to 400VAC |
| Rated coil power | 1.2W/2.7VA | 1.2W/2.7VA | 1.2W/2.7VA |
| Dielectric Strength | | | |
| Initial dielectric strength | | | |
| between open contacts | 1500/2000Vrms | 1200Vrms | 2500Vrms |
| between contact and coil | 2500Vrms | 3750Vrms | 2500Vrms |
| between adjacent contacts | 4000Vrms | 3750Vrms | 2500Vrms |
| Clearance/creepage | | | |
| between contact and coil | ≥4/14.9mm | Visit <u>TE.com</u> for more information | ≥4/14.9mm |
| Other Data | | | |
| Ambient temperature (max.) | DC +60/+65°C | DC +45°C | +50/+60°C |
| | AC +40°C | AC +75°C | |
| Category of environmental protection IEC61810 | RTI | RTI, RTO | RTI |
| Terminal type | Solder/Quick connect | Solder/PCB THT/Quick connect | Plug-in, solder, Quick connect, PCB THT |
| Mounting | Bracket, top flange panel mount and DIN snap-on | Bracket and top flange panel mount | Socket, PCB, bracket, flange mount and DIN-snap-on |
| Dimensions (lwh) | 38.5x35.5x48.5mm | 38.9x35.7x48.4mm | 38.5x35.5x48.5mm |
| Accessories | No sockets | No sockets | DIN rail and PCB sockets, clips |

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

POTTER & BRUMFIELD KUHP

SCHRACK RM8C/D

SCHRACK RM 8



Link to datasheet

SCHRACK RM5/6/B 3MM

Potter & Brumfield KUGP

3mm contact gap DC or AC coil

Plug-in version, PCB terminals or chassis mount

Potter & Brumfield KUL

Magnetic latching Single and dual coils Panel mounting

Potter & Brumfield KUEP

10A relay with various contact arrangements

Magnetic blowout for 150VDC load switching

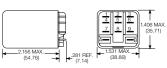
Indicator lamp option



Footprint

2) see footnote below







| | | | (22.23) |
|---|---|--|--|
| Applications | Voltage control units | Alarm systems Machine tools Battery chargers | DC load switvhing in industrial controls |
| Contact Data | | | |
| Contact arrangement | 1 form C (1 CO) | 1 form C (1 CO) | 1 form X (NO-DM) |
| | 2 form A (2 NO) | 2 form C (2 CO) | 2 form A (2 NO) |
| | 2 form C (2 CO) | 3 form C (3 CO) | 2 form C (2 CO) |
| Date divisite as | 3 form C (3 CO) | 20/240\/AC | 150/156/240//46 |
| Rated voltage | 240/400VAC | 28/240VAC | 150VDC/240VAC |
| Rated current | 10A | 10A | 10A |
| Switching power / Max. break | 2400VA | A A C O | 1500W/2400VA |
| Contact material | Ag, AgCdO | Ag, AgCdO | AgCdO, AgSnOlnO |
| Min. recommended contact load | 100mA at 12VDC (Ag) 300mA at 12VDC (AgCdO) | 100mA at 12VDC (Ag) 300mA at 12VDC (AgCdO) | 300mA at 12VDC |
| Coil Data | | | |
| Magnetic system | DC, AC | DC, AC | DC, AC |
| Rated coil voltage | 6-110VDC/6-240VAC | 12 to 48VDC/24 to 120/240VAC | 5 to 110VDC/6 to 240VAC |
| Rated coil power | 1.8W/2.7VA | 1.6W dual coil/1.2W single coil | 1.2W to 1.8W/2 to 2.7VA |
| Dielectric Strength | | | |
| Initial dielectric strength | | | |
| between open contacts | 3500Vrms | 500Vrms | 1200Vrms |
| between contact and coil | 2200Vrms | 1500Vrms | 2200Vrms |
| between adjacent contacts | 2200Vrms | 1500Vrms | 2200Vrms |
| Clearance/creepage | | | |
| between contact and coil | >8mm | Visit $\underline{TE.com}$ for more information | Visit TE.com for more information |
| Other Data | | | |
| Ambient temperature (max.) | DC +75°C | DC +70°C | AC +55/+70°C |
| | AC +70°C | AC +50/+70°C | DC +50/+70°C |
| Category of environmental protection IEC61810 | RTI | RTI | RTI |
| Terminal type | THT, Plug-in, solder, Quick connect, PCB | .187 Quick connect, solder | Quick connect, solder and PCB |
| Mounting | Socket, PCB, bracket, flange mount | Socket, bracket | Socket, PCB, bracket and top flange |
| Dimensions (lwh) | 38.9x35.7x48.4mm | 38.9x35.7x54.8mm | mount 38.9x35.7x48.4mm |
| Accessories | DIN rail and PCB sockets, clips | Screw, solder, PCB and Quick connect sockets and clips | DIN rail, track mount, chassis mount, and snap-in sockets, clips |

POTTER & BRUMFIELD KUL

POTTER & BRUMFIELD KUGP

POTTER & BRUMFIELD KUEP



Link to datasheet

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

ACCESSORIES

DIN rail and PCB sockets Screw and screwless fingersafe terminals Retaining and ejection clips Marking tags, jumper bars, jumper links LED and protection modules

SETS

Relay package consisting of relay, DIN rail socket, plastic retaining clip, marking tag and module



Applications

| Contact Data | | |
|---|--|--------------------------------|
| Contact arrangement | 1 form C (1 CO) | 1 form C (1 CO) |
| | 2 form C (2 CO) | 2 form C (2 CO) |
| | 3 form C (3 CO) | 3 form C (3 CO) |
| | 4 form C (4 CO) | 4 form C (4 CO) |
| Rated voltage | 240/250VAC | 240/250VAC |
| Rated current | 6 to 16A | 6 to 16A |
| Switching power / Max. break | | 1500 to 4000VA |
| Min. recommended contact load | | 1) see footnote below |
| Coil Data | | |
| Magnetic system | | DC, AC |
| Rated coil voltage | | 6 to 220VDC/6 to 230VAC |
| Rated coil power | | 170 to 700mW/0.4 to 1VA |
| Dielectric Strength | | |
| Initial dielectric strength | | |
| between open contacts | | |
| between contact and coil | | |
| between adjacent contacts | | |
| Clearance/creepage | | |
| between contact and coil | | |
| Other Data | | |
| Ambient temperature (max.) | | |
| Category of environmental protection IEC61810 | IP20 | |
| Terminal type | Screw, screwless, plate mount, PCB | Screw, screwless |
| Mounting | | |
| Dimensions (lwh) | | |
| Accessories | PCB, panel mount and DIN rail | DIN, panel mount |
| Link to datasheet | ACCESSORIES SLIM INTERFACE RELAY SNR | RELAY PACKAGE RT |
| | ACCESSORIES INDUSTRIAL POWER RELAY RT | RELAY PACKAGE PT |
| | ACCESSORIES MINIATURE RELAY PT | RELAY PACKAGE SNR |
| | ACCESSORIES INTERFACE PLUG-IN RELAY XT | ACCESSORIES MULTIMODE RELAY MT |

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.



Axicom IM

4G telecom/signal relay/switching relay Slim line 10x6mm, low-profile 5.65mm Switching power 60W/62.5VA Switching voltage 220VDC/250VAC Monostable + Bistable Low rated coil power High dielectric version High current version up to 5 A High contact stability version

Axicom IMB

Bifurcated contacts

4G telecom/signal relay/switching relay Slim line 10x6mm, low-profile 5.65mm Switching power 60W/62.5VA Switching voltage 220VDC/250VAC Monostable + Bistable Very high dielectric version

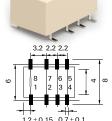
Axicom IMC

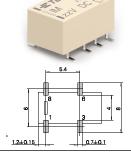
4G telecom/signal relay/switching relay Slim line 10x6mm, low-profile 5.65mm Switching power 60W/62.5VA Switching voltage 220VDC/250VAC Monostable + Bistable High dielectric version High current version up to 4 A Bifurcated contacts

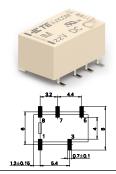


Footprint

2) see footnote below







Applications

Telecommunication, access and transmission equipment

Thermostat controls, fire and security equipment

Measurement and test equipment, Industrial controls, medical equipment Telecommunication, access and transmission equipment

Thermostat controls, fire and security equipment

Measurement and test equipment, Industrial controls, medical equipment Telecommunication, access and transmission equipment

Thermostat controls, fire and security equipment

Measurement and test equipment, Industrial controls, medical equipment

Contact Data

1 form A, 1 NO
Bifurcated contacts
250VAC/220VDC
2A
60W/62.5VA
100μV/1μA
<100mΩ at 10mA/30mV

1 form C, 1 CO
Bifurcated contacts
250VAC/220VDC
2/4A
60W/62.5VA
100μV/1μA
<50mΩ at 10mA/ 30mV

Coil Data

Magnetic systemPolarizedPolarizedPolarizedRated coil voltage1.5 to 24VDC1.5 to 24VDC1.5 to 24VDCRated coil power
DC coil / bistable 1 coil/2 coils50 to 200mW-/-
50 to 200mW-/-140mW/-/-140mW/-/-

Dielectric Strength

between open contacts 750 to 1500Vrms 2500Vrms 1000 to 1600 Vrms between contact and coil 1500 to 1800Vrms 3500Vrms 1800 to 2200Vrms between adjacent contacts 750 to 1800Vrms Initial surge withstand voltage 1000 to 2500V 3500V 1500 to 2200V between open contacts between contact and coil 2000 to 2500V 4900V 2500 to 3000V between adjacent contacts 1000 to 2500V Isolation 100/900MHz 37.0/18.8dB 37.0/18.8dB 37.0/18.8dB Insertion loss 100/900MHz 0.03/0.33dB 0.03/0.33dB 0.03/0.33dB Volt. standing wave ratio 1.06/1.49 1.06/1.49 1.06/1.49 100/900MHz Capacitance max. 1pF max. 1pF max. 1pF between open contacts Other Data

Ambient temperature (max.) -40 to +85°C -40 to +85°C -40 to +85°C IP67/RTV IP67/RTV Category of environmental IP67/RTV protection Terminal type THT. SMT THT, SMT THT. SMT Dimension (lwh) 10x6x5.65mm 10x6x5.65mm 10x6x5.65mm Link to datasheet AXICOM IM **AXICOM IMB AXICOM IMC**

²⁾ Footprint images are representative. For a complete selection, refer to the TE data sheet via the link above.



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.

Axicom IMD/IME

4G telecom/signal relay/switching relay Slim line 10x6mm, low-profile 5.65mm Switching power 60W/62.5VA Switching voltage 220VDC/250VAC

Monostable Bifurcated contacts

Axicom P2 / P2 HIGH **DIELECTRIC VERSION**

Small Signal relay Slim line 15x7.5mm Switching current max. 5A High dielectric version Meets Telcordia Technologies Inc. requirements

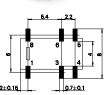
Axicom P2 LIGHTING

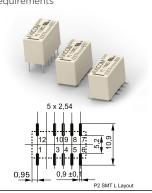
Small signal relay Slim line 15x7.5mm Switching current max. 5A High dielectric strength 3kV VDE certified for LED tubes

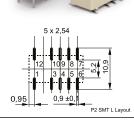


Footprint

2) see footnote below







Applications

Telecommunication, access and transmission equipment, fire and security equipment

Thermostat controls

Measurement and test equipment, Industrial controls, medical equipment

Security systems, consumer electronics, thermostats Home automation systems, communication systems Set top boxes, office equipment LED tubes Office equipment Security systems, set top boxes

Contact Data

Contact arrangement 2 form B, 2 NC 2 form A, 2 NO Bifurcated contacts Rated voltage 250VAC/220VDC Rated current 2Δ

Switching power / Max, break

Min. recommended contact load Initial contact resistance

60W/62.5VA

100μV/1μΑ <50m Ω at 10mA/20mV 2 form C, 2 CO Bifurcated contacts

250VAC/220VDC 2Δ

60W/62.5VA 100μV/1μΑ <50m Ω at 10mA/20mV

2 form C, 2 CO Bifurcated contacts

250VAC/220VDC 2Δ

60W/62.5VA 100μV/1μΑ

<50m Ω at 10mA/20mV

Coil Data

Magnetic system Polarized Polarized Polarized Rated coil voltage 1.5 to 24VDC 2.4 to 24VDC 3 to 12VDC Rated coil power 140mW/-/-140mW/70mW/140mW 140mW - 1 coil version DC coil / bistable 1 coil/2 coils

Dielectric Strength

Initial dielectric strength between open contacts

between contact and coil between adjacent contacts Initial surge withstand voltage

between open contacts between contact and coil between adjacent contacts Isolation 100/900MHz

Insertion loss 100/900MHz Volt. standing wave ratio 100/900MHz

Capacitance between open contacts

1000Vrms 1800Vrms 1000Vrms

1500V 2500V 1500V 37.0/18.8dB 0.03/0.33dB

16/149

max. 1pF

1000 to 1500Vrms 1500Vrms 1000 to 1500Vrms

2000 to 2500Vrms

2500V 2500V 1500Vrms 3000Vrms 1500Vrms

6000Vrms

Other Data

Ambient temperature (max.) Category of environmental protection Terminal type Dimension (lwh)

-40 to +85°C IP67/RTV THT, SMT 10x6x5.65mm

-40 to +85°C RTIII THT, SMT 14.5x7.2x10.4mm, stnd 14.5x7.2x9.9mm, ovrmld

-40 to +85°C RTIII THT, SMT

14.5x7.2x9.9mm, ovrmld

AXICOM P2 LIGHTING

AXICOM IMD/IME

AXICOM P2 / P2 HIGH **DIELECTRIC VERSION**

2) Footprint images are representative. For a complete selection, refer to the TE data sheet via the link above.



Link to datasheet

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.

Axicom FP2

Slim line 14x9mm 2 form C bifurcated contacts High mechanical shock resistance, up to

1500g survival

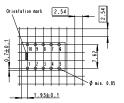
Axicom D2N V23105

2G telecom/signal relay 4 coil sensitivities 3A UL rating



Footprint

2) see footnote below



Communication equipment

Office equipment

ø1.0 + 0.1

Measurement and control equipment

Applications

Communication equipment

Keyless entry

Speaker switch, consumer electronics

Contact Data

Contact arrangement 1 form C (CO)

Rated voltage 220VDC/250VAC Rated current 2A Switching power / Max. break 60W/62.5VA

Min. recommended contact load 100μV Initial contact resistance $<50m\Omega$ at 10mA

Coil Data

Magnetic system Polarized Rated coil voltage 2 to 24VDC Rated coil power

80mW (high sensitive), 140mW

Single Contacts 250VAC/220VDC 3A 60W/125VA $100\mu V/10\mu A$

Non polarized

150 to 700mW/-/-

3 to 48VDC

<100mΩ

2 form C, 2 CO

Dielectric Strength

Initial dielectric strength between open contacts

between contact and coil between adjacent contacts Initial surge withstand voltage between open contacts

DC coil/bistable 1 coil/2 coils

between contact and coil between adjacent contacts

Isolation/Cross talk at 100MHz/900MHz Insertion loss 100/900MHz

Volt. standing wave ratio 100/900MHz Capacitance

between open contacts

750Vrms 1000Vrms 1000Vrms

1100V 1500V 1500V

Cross talk -40.2/-22.3dB 0.03dB/0.25dB 1.01/1.07

750Vrms 1000Vrms 750Vrms

1500V 1500V 1500V

Isolation -39.0/-20.7dB -0.02/-0.27dB

1.04/1.40 max. 2pF

Other Data

Ambient temperature (max.) -40 to +85°C -25 to +85°C Category of environmental protection IP67/RTIII IP67/RTIII Terminal type THT THT Dimension (lwh) 14x9x5mm 20.2x10x11.4mm

Link to datasheet **AXICOM FP2 AXICOM D2N V23105**

²⁾ Footprint images are representative. For a complete selection, refer to the TE data sheet via the link above.



Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC: AgCdO and AgSnO₃: 100mA at 12VDC. Please contact technical support for detailed technical data.

Axicom MT2

2G telecom/signal relay 5 coil sensitivities 2A UL rating

Axicom P1 V23026

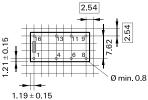
Very high sensitive relay Low-profile High vibration and shock resistance Version: symmetric pin layout Temperature range up to 85°C 1500Vrms across opened contacts





Footprint

2) see footnote below



| | | | 2. | 54 | | |
|-------------|----------------------|----|------|----|-------|----------|
| 1.71 + 0.15 | 16 1 1 0.15 | 13 | 11 9 | | 0 762 | 8.0 .nim |

| Applications | Communication equipment Linecard application Measurement and control equipment | Automotive equipment CAN bus Imobilizer |
|--------------------------------------|--|---|
| Contact Data | | |
| Contact arrangement | 2 form C, 2 CO Bifurcated contacts | 1 form C, 1 CO Bifurcated contacts |
| Rated voltage | 250VAC/220VDC | 150VAC/125VDC |
| Rated current | 2A | 1A |
| Switching power / Max. break | 60W/62.5VA | 30W/60VA |
| Min. recommended contact load | 100μV/1μΑ | 100μV/1μΑ |
| Initial contact resistance | <70mΩ | <50mΩ |
| Coil Data | | |
| Magnetic system | Non polarized | Polarized |
| Rated coil voltage | 3 to 48VDC | 3 to 24VDC |
| Rated coil power | 150 to 550mW/-/- | 65 to 130mW/30 to |
| DC coil/bistable 1 coil/2 coils | | 130mW/70 to 200mW |
| Dielectric Strength | | |
| Initial dielectric strength | | |
| between open contacts | 750Vrms | 500Vrms |
| between contact and coil | 1000Vrms | 1500Vrms |
| between adjacent contacts | 750Vrms | |
| Initial surge withstand voltage | | |
| between open contacts | 1500V | |
| between contact and coil | 1500V | 2500V |
| between adjacent contacts | 1500V | |
| Isolation 100/900MHz | -31.8/-14.2dB | -30.0/-18.0dB |
| Insertion loss 100/900MHz | -0.02/-0.97dB | -0.12/-1.90dB |
| Volt. standing wave ratio 100/900MHz | 1.03/1.31 | 1.06/1.75 |
| Capacitance between open contacts | max. 2pF | max. 5pF |
| Other Data | | |
| Ambient temperature (max.) | -55 to +85°C | -40 to +85°C |
| Category of environmental protection | IP67/RTIII | IP67/RTIII |
| Terminal type | THT | THT, SMT |
| Dimension (lwh) | 20.2x10x11mm | 13x7.6x6.9mm |
| Link to datasheet | AXICOM MT2 | AXICOM P1 V23026 |



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

Axicom REED DIP/SIL

Direct driving with TTL signals Ultrasonic cleanable High switching speed Clamping diode Electrostatic shield

TSC

Designed for thermostat, modem Computer peripherals, video recording and security application Low coil power requirements IC compatibility

OUAZ/T81

Gold overlay silver palladium alloy contact suitable for low loads High density available on PCB due to small size

2.54mm terminal pitch same as IC socket terminal pitch

Sensitive and standard coils





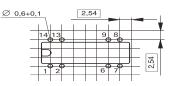
6 – 0.31 DIA

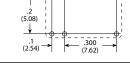
_ (.8) _ `



Footprint

2) see footnote below





Applications

Incircuit tester Measuring and control systems Alarm and security equipment

Telecommunications Office machine

Telecommunications Logic and process control Vending machines

Contact Data

Contact arrangement 1 form A, 1 NO 1 form C, 1 CO 1 form C, 1 CO 2 form A, 2 NO 1 form A, 1 NO

1 from C, 1 CO Reed contacts 175 to 200VAC/VDC 0.25 to 0.5A

3 to 10W Min. recommended contact load 10μV/1μΑ $<150 m\Omega$

120VAC, 30VDC 1A 120VA, 24W 1mA at 1VDC 50mΩ at 100mA, 6VDC

120VAC/24VDC 1A 120VA, 30W 1mA at 1VDC

Coil Data

Rated voltage Rated current

Magnetic system DC, sensitive Non polarized DC, sensitive Rated coil voltage 5 to 24VDC 3 to 24VDC 5 to 24VDC Rated coil power 50 to 300mW/-/-150, 300mW 200, 450mW DC coil/bistable 1 coil/2 coils

Dielectric Strength

Switching power / Max. break

Initial contact resistance

Initial dielectric strength between open contacts 140 to 175Vrms 400Vrms 500Vrms 500vdc 1000Vrms 1000Vrms between contact and coil between adjacent contacts 500vdc

Initial surge withstand voltage between open contacts between contact and coil

between adjacent contacts Isolation 100/900MHz Insertion loss 100/900MHz Volt. standing wave ratio 100/900MHz Capacitance

between open contacts

max. 1pF

1500Vp (10/160μs)

1500Vp (10/160µs)

Other Data

Ambient temperature (max.) -20 to +70°C 40 to +80°C -40 to +60°C (standard) RTIII/IP67 Category of environmental IP67/RTIII RTII RTIII protection THT THT THT Terminal type 19.3x5.7x7.5mm/19.8x5.1x8mm 12.5x7.5x10mm 15.4x10.4x11.2mm Dimension (lwh)

Link to datasheet **AXICOM REED DIP/SIL TSC** OUAZ/T81



²⁾ Footprint images are representative. For a complete selection, refer to the TE data sheet via the link above.



Axicom HF3

High performance RF relay/switch for up to 3GHz

Low power consumption ≤70/140 mW 50 and 75 Ω version Very small design

Axicom HF3S

High performance RF relay/switch for

Low power consumption ≤70/140mW 50 and 75 Ω version RF power 100W at 2GHz

Very small design

Axicom HF6

High performance RF relay/switch for up to 6GHz

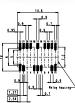
Low power consumption ≤70/140mW 50Ω version

Very small design



Footprint

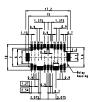
2) see footnote below











Applications

Cable modems and linecards/CATV

Measurement and test equipment

ATE

Satellite/audio/video tuners

Cable modems and linecards/CATV Measurement and test equipment

Satellite/audio/video tuners

Measurement and test equipment

Wireless base stations and antennas

Wireless infrastructure

Contact Data

Contact arrangement 1 form C, 1 CO Bridge contacts 250VAC/220VDC Rated voltage

Rated current

Switching power / Max. break Min. recommended contact load Initial contact resistance

60W/62.5VA/50W (2.5GHz) 100μV/1μΑ <100mΩ

1 form C, 1 CO Bridge contacts 250VAC/220VDC

60W/62.5VA/50W (2.5GHz) 100μV/1μΑ <100mΩ

1 form C, 1 CO Bridge contacts 250VAC/220VDC

60W/62.5VA/50W (2.5GHz)

100μV/1μΑ <100mΩ

Coil Data

Magnetic system Polarized Polarized Polarized Rated coil voltage 3 to 24VDC 3 to 24VDC 3 to 24VDC Rated coil power 140mW/70mW/140mW 140mW/70mW/140mW 140mW/70mW/140mW DC coil/bistable 1 coil/2 coils

| De con bistable i con 2 cons | | | |
|--|--------------------|---------------------|---------------------|
| Dielectric Strength | | | |
| Initial dielectric strength | | | |
| between open contacts | 600Vrms | 600Vrms | 600Vrms |
| between contact and coil between adjacent contacts | 1000Vrms | 1000Vrms | 1000Vrms |
| Initial surge withstand voltage | | | |
| between open contacts | 1000Vp | 1000Vp | 1000Vp |
| between contact and coil between adjacent contacts | 1500Vp | 1500Vp | 1500Vp |
| Capacitance | | | |
| between open contacts | max. 1pF | max. 1pF | max. 1pF |
| RF Data | 0.1/0.9/3GHz | 0.1/0.9/3GHz | 0.9/3/6GHz |
| Isolation | -80/-72/-DB45 | -95/-80/-55dB | -80/-60/-30dB |
| Insertion loss | -0.03/0.12/-0.35dB | -0.03/-0.12/-0.30dB | -0.05/-0.15/-0.80dB |
| Voltage standing wave ratio (VSWR) | 1.05/1.15/1.20 | 1.05/1.10/1.25 | 1.05/1.10/1.40 |
| Other Data | | | |
| Ambient temperature (max.) | -55 to +85°C | -55 to +85°C | -55 to +85°C |
| Category of environmental | IP67/RTIII | IP67/RTIII | IP67/RTIII |
| protection | CMT | CMT | CMT |

SMT

15x7.6x10.6mm

AXICOM HF3S

14.6x7.2x10mm

AXICOM HF3

SMT

15x7.6x10.6mm

AXICOM HF6

SMT



Terminal type

Dimension (lwh) Link to datasheet

Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC: AgCdO and AgSnO.; 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.

Potter & Brumfield SSR

Standard "hockey puck" package Inverse parallel SCR output 240VAC & 480VAC output types Zero voltage and random voltage turn-on versions 4,000Vrms optical isolation Cover design with anti-rotation

barriers

1 Form A (SPST-NO)

Potter & Brumfield SSRD

Two independent AC output solid state relays

Standard "hockey puck" package Inverse parallel SCR output 4000Vrms optical isolation Quick connect style termination 2 Form A (2 SPST-NO)

Potter & Brumfield SSRT

Standard "hockey puck" package TRIAC Output 4,000Vrms optical isolation Cover design with anti-rotation barriers 1 Form A (SPST-NO)



PCB mount not applicable.

Visit **TE.com** for more information



PCB mount not applicable.
Visit <u>TE.com</u> for more information



PCB mount not applicable.
Visit **TE.com** for more information

| Typical Applications | Industrial machinery | Industrial machinery | Industrial machinery |
|----------------------|----------------------|----------------------|----------------------|
| | HVAC | HVAC | HVAC |
| | Building controls | Building controls | Building controls |

| | Building controls | Building controls | Building controls |
|---|-------------------------|-------------------------|-------------------------|
| Output Data | | | |
| Load Voltage | 24 - 280VAC/48 - 660VAC | 24 - 280VAC | 24 - 280VAC |
| Repetitive Blocking Voltage | 600VAC/1200VAC | 600VAC | 600VAC |
| Load Current Range | 25A/50A/125A | 25A/40A | 10A/25A |
| Leakage Current (Off-State) | 5mA | 5mA | 5mA |
| On-State Voltage Drop (Max.) | 1.8V | 1.8V | 1.6V |
| Load Power Factor Rating | 0.5 - 1.0 | 0.5 - 1.0 | 0.5 - 1.0 |
| Thermal Resistance, Junction to Case (ROJ-C) (Max.) | 2.35/0.55/0.35 | 2.35/0.86 | 2.4/1.7 |
| Input Data (AC/DC) | | | |
| Control Voltage Range VIN | 90 - 280VAC/3 - 32VDC | 4 - 15VDC | 90 - 280VAC/3 - 32VDC |
| Must Operate Voltage VIN(OP) (Min.) | 90VAC/3VDC | 4VDC | 90VAC/3VDC |
| Must release Voltage VIN(REL) (Min.) | 10VAC/1VDC | 1VDC | 10VAC/1VDC |
| Input Current | 2 - 26mA / 3 - 30mA | 15mA @ 8VDC | 25mA/20mA |
| Dielectric Strength | | | |
| Isolation: | 4000Vrms | 4000Vrms | 4000Vrms |
| Other Data | | | |
| Dimensions | 46.5x57.8x43.4mm | 44.5x57.8x30.15mm | 45x57.5x36.5mm |
| Operating Temperature | -30 to +80°C | -30 to +80°C | -30 to +80°C |
| Mounting | Panel | Panel | Panel |
| UL File No | E29244 | E29244 | E29244 |
| Link to datasheet | POTTER & BRUMFIELD SSR | POTTER & BRUMFIELD SSRD | POTTER & BRUMFIELD SSRT |



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.

Potter & Brumfield SSRDC

Standard "hockey puck" package 200VDC FET output 12A, 25A and 40A load current options 1500VDC optical isolation Cover design with anti-rotation harriers 1 Form A (SPST-NO)

Potter & Brumfield SSRK

10-30A DIN mount Solid State Relay with integrated heat sink Narrow 22.5mm design Inverse parallel SCR output 240VAC & 600VAC output types 4,000Vrms optical isolation 1 Form A (SPST-NO)

Potter & Brumfield SSRM

45A-65A DIN mount Solid State Relay with integrated heat sink 44.5mm design Inverse parallel SCR output 600VAC output type 4,000Vrms optical isolation 1 Form A (SPST-NO)



PCB mount not applicable. Visit **TE.com** for more information



PCB mount not applicable. Visit **TE.com** for more information



PCB mount not applicable. Visit **TE.com** for more information

| | ications |
|--|----------|

Material handling Trains

Construction equipment

Industrial machinery **HVAC Building controls**

HVAC **Building controls**

48 - 660VAC

Output Data

Load Voltage Repetitive Blocking Voltage Load Current Range Leakage Current (Off-State) On-State Voltage Drop (Max.) Load Power Factor Rating Thermal Resistance, Junction to Case (ROJ-C) (Max.)

200VDC 10 A/25 A/40 A 12mA 2.83VDC NA 0.7/0.7/0.5

24 - 280VAC/48 - 660VAC 600VAC/1200VAC 10A/20A/30A 5mA 1.8V/1.6V 0.5 - 1.0

1200VAC 45A/55A/65A 1mA 1.7V 0.5 - 1.0

Input Data (AC/DC)

Control Voltage Range VIN Must Operate Voltage VIN(OP) (Min.) Must release Voltage VIN(REL) (Min.) Input Current

3.5VDC 1VDC

30mA

1500VDC

3 - 32VDC

90VAC/3VDC 10VAC/1VDC

90 - 280VAC/3 - 32VDC

7.5mA - 16mA/18 - 30mA

90VAC/3VDC 10VAC/1VDC

90 - 140VAC/4 - 32VDC

15mA/14 - 30mA

4000Vrms

Dielectric Strength

Isolation:

Other Data **Dimensions**

Link to datasheet

45x57.8x43.4mm **Operating Temperature** -30 to +80°C Mounting Panel UL File No

E29244 **POTTER & BRUMFIELD SSRDC** 4000Vrms

22.5x82.3x111.5mm -30 to +80°C Din Rail F29244

POTTER & BRUMFIELD SSRK

Industrial machinery

POTTER & BRUMFIELD SSRM

22.5x76.2x109.2mm

-40 to +80°C

Din Rail

E29244

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.



Potter & Brumfield SSRA

2A Miniature, SIP Solid State Relay Inverse parallel SCR output 2500Vrms optical isolation 240VAC output 1 Form A (SPST-NO)

Potter & Brumfield SSRC

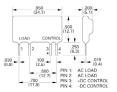
5A SIP Solid State Relay Inverse parallel SCR output 4000Vrms optical isolation 1 Form A (SPST-NO)





Footprint

2) see footnote below



| Typical Applications | Industrial machinery | Industrial machinery |
|---|-------------------------|-------------------------|
| | HVAC | HVAC |
| | Building controls | Building controls |
| Output Data | | |
| Load Voltage | 12 - 280VAC | 12 - 280VAC/48 - 660VAC |
| Repetitive Blocking Voltage | 600VAC | 600VAC/1200VAC |
| Load Current Range | 2A | 5A |
| Leakage Current (Off-State) | 0.1mA | 0.1mA |
| On-State Voltage Drop (Max.) | 1.5V | 1.4V |
| Load Power Factor Rating | 0.5 - 1.0 | 0.5 - 1.0 |
| Thermal Resistance, Junction to Case (ROJ-C) (Max.) | - | - |
| Input Data (AC/DC) | | |
| Control Voltage Range VIN | 4-10VDC | 3 - 15VDC |
| Must Operate Voltage VIN(OP) (Min.) | 4VDC | 4VDC |
| Must release Voltage VIN(REL) (Min.) | 1VDC | 1VDC |
| Input Current | 15mA | 15mA |
| Dielectric Strength | | |
| Isolation: | 2500Vrms | 4000Vrms |
| Other Data | | |
| Dimensions | 24.1x5.1x12.7mm | 43.1x7.6x25.4mm |
| Operating Temperature | -30 to + 80°C | -30 to + 80°C |
| Mounting | PCB | PCB |
| UL File No | E29244 | E29244 |
| Link to datasheet | POTTER & BRUMFIELD SSRA | POTTER & BRUMFIELD SSRC |



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

Potter & Brumfield SSRF

25A SIP Solid State Relay with integrated heat sink

Inverse parallel SCR output 4000Vrms optical isolation 1 Form A (SPST-NO)

Potter & Brumfield IACM

Slim Solid State AC Input Module Color coded by function - Yellow 4000V Vrms optical isolation Compatible with 2IO series mounting boards 1 Form A (SPST-NO)





Footprint

2) see footnote below



| (10.16) | .10 (2.54) |
|---------|--|
| | 0.3 1 (7.82) 0.7 1 (17.8) 12 1.4 (35.6) 1 (40) 40 |

| Typical Applications | Industrial machinery | Industrial machinery |
|--|-------------------------|-------------------------|
| 21 | HVAC | HVAC |
| | Building controls | Building controls |
| Output Data | | |
| Load Voltage | 12 - 280VAC/48 - 660VAC | 30VDC |
| Repetitive Blocking Voltage | 600VAC/1200VAC | - |
| Load Current Range | 10A (CC)/25A (FAC) | 50mA |
| Leakage Current (Off-State) | 0.1mA | 10uA |
| On-State Voltage Drop (Max.) | 1.6V | 0.2VDC |
| Load Power Factor Rating | 0.5 - 1.0 | - |
| Thermal Resistance, Junction to Case (ROJ-C) (Max. | .) - | - |
| Input Data (AC/DC) | | |
| Control Voltage Range VIN | 3 - 15VDC | 24VAC/120VAC/240VAC |
| Must Operate Voltage VIN(OP) (Min.) | 4VDC | 18VAC/90VAC/280VAC |
| Must release Voltage VIN(REL) (Min.) | 1VDC | 10VAC/60VAC/60VAC |
| Input Current | 15mA | 1-5mA |
| Dielectric Strength | | |
| Isolation: | 4000Vrms | 4000Vrms |
| Other Data | | |
| Dimensions | 43.1x22.8x34.3mm | 43.5x10.3x25.5mm |
| Operating Temperature | -30 to + 80°C | -30 to 100°C |
| Mounting | PCB | PCB |
| UL File No | E29244 | E29244 |
| Link to datasheet | POTTER & BRUMFIELD SSRF | POTTER & BRUMFIELD IACM |



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

Potter & Brumfield OACM

Slim Solid State AC Output Module Color coded by function - black 4000Vrms optical isolation Compatible with 2IO series mounting boards 1 Form A (SPST-NO)

Potter & Brumfield IDCM

Slim Solid State DC Input Module Color coded by function - white 4000Vrms optical isolation Compatible with 2IO series mounting boards 1 Form A (SPST-NO)

Potter & Brumfield ODCM

Slim Solid State AC Output Module Color coded by function - red 4000Vrms optical isolation Compatible with 2IO series mounting boards 1 Form A (SPST-NO)









| (10.16) | .10 |
|---------|----------------------------|
| ļ | 0.3 (7.62) 0.7 |
| ė. | 12 (30.5) 1.4 (35.6) |
| | (35.6) 1.6 (40.6) |
| 0 | + 1 |



Footprint

2) see footnote below

| Typical Applications | Industrial machinery HVAC Building controls |
|----------------------|---|
| | |
| Output Data | |

Industrial machinery **HVAC**

Industrial machinery **HVAC**

| | Building controls | Building controls | Building controls |
|---|-------------------------|-------------------------|-------------------------|
| Output Data | | | |
| Load Voltage | 24 - 280VAC | 30VDC | 60VDC |
| Repetitive Blocking Voltage | 600VAC | - | - |
| Load Current Range | 3A/5A | 50mA | 3A |
| Leakage Current (Off-State) | 5mA | 10uA | 0.5mA |
| On-State Voltage Drop (Max.) | 1.6VAC | 0.2VDC | 1.5VDC |
| Load Power Factor Rating | - | - | - |
| Thermal Resistance, Junction to Case (ROJ-C) (Max.) | - | - | - |
| Input Data (AC/DC) | | | |
| Control Voltage Range VIN | 3 - 8VDC / 3 - 15VDC | 3 - 32VDC/10 - 60VDC | 5VDC/15VDC/24VDC |
| Must Operate Voltage VIN(OP) (Min.) | 3VDC | 3VDC/10VDC | 3VDC/9VDC/18VDC |
| Must release Voltage VIN(REL) (Min.) | 1VDC | 1VDC/1VDC | 1VDC |
| Input Current | 8mA | 10mA | 20mA |
| Dielectric Strength | | | |
| Isolation: | 4000Vrms | 4000Vrms | 4000Vrms |
| Other Data | | | |
| Dimensions | 43.5x10.3x25.5mm | 43.5x10.3x25.5mm | 43.5x10.3x25.5mm |
| Operating Temperature | -30 to 100°C | -30 to 100°C | -30 to 100°C |
| Mounting | PCB | PCB | PCB |
| UL File No | E29244 | E29244 | E29244 |
| Link to datasheet | POTTER & BRUMFIELD OACM | POTTER & BRUMFIELD IDCM | POTTER & BRUMFIELD ODCM |



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

Potter & Brumfield W28

Thermal Overload / Trip Free Operation Replaces slow blow glass cartridge fuse and holder Button provides visible trip indication Push-to-reset

Snap-in mounting

UL 1077, CSA, VDE, CCC (16A/20A not VDE)

Potter & Brumfield W23/W31

Thermal Overload / Trip Free Operation Toggle or Push/Pull Actuation Cannot be reset against overload On/Off switching option UL 1077, CSA







PCB mount not applicable. Visit **TE.com** for more information PCB mount not applicable. Visit **TE.com** for more information

Typical Applications

HVAC (Transformers), General Aviation, Medical, Marine Power Supplies, Lighting, Surge Protection Audio, Pool and Spa, Appliances, Industrial Controls

Generators, General Aviation, Medical, Marine Power Supplies, Lighting, Surge Protection Audio, Pool and Spa, Appliances, Industrial Controls

Operational Data

| Туре | Thermal | Thermal |
|----------------------------|--|------------------------------------|
| Number of Poles | 1 | 1 |
| Circuit function | Series trip | Series trip |
| Ambient temperature (max.) | -20 to +60 °C | -20 to +65°C |
| Terminal type | Standard quick connect .250in x .032in | #8-32 screw |
| Mounting | Snap-in | Thru-hole 3/8"-24 threaded bushing |
| Manual operation Actuator | Push-to-reset | Push/pull W23 and toggle W31 |
| Dimension L*W*H | 39.0 x 15.9 x 13.7mm | 40.6x17.5x35.2mm |

| ziocericai zata | | |
|-----------------------------|---|--|
| Dielectric strength | 1500Vrms | 1500Vrms |
| Insulation Resistance | | |
| Max Operating Voltages | 32VDC 250VAC, 50/60Hz | 50VDC 240VAC to (400Hz) |
| Rated current | 0.5A to 20A | 1A to 50A |
| Interrupt capacity | 1,000 amps at 250VAC, 50/60 Hz. and 32VDC in accordance with UL standard 1077. | With 4X Max. Series Fuse Protection 0.5-50 amp models — 1000 amps at 240VAC. 30-50 amp models — 1000 amps at 50VDC. Without 4X Max. Series Fuse Protection 0.5-25 amp models — 2000 amps at 50VDC. |
| Calibration | Will continuously carry 100% of rating. 3-20 amp models – may trip between 101% and 134%, but must trip at 135% of rating within one hour at +25°C. 0.25-2 amp models – may trip between 101% and 174%, but must trip at 175% of rating within one hour at +25°C. | 10-20 amp models — 2000 amps at 120VAC Continuously carry 100% of rating, may trip between 101% and 134% of rating at 25°C. Must trip at 135% in one hour. |
| Resetable Overload Capacity | Six times rated current for 0.25 through 2 amp | Ten times rated current. |

Reset Time

models. Ten times rated current for 3 through 20 amp models.

180 seconds max. for 0.25 through 2 amp models.

5 to 30 seconds for 3 through 20 amp models. Protective boot, push-on lockwasher

Accessories

Hex nut, lockwasher, knurl nut

Link to datasheet **POTTER & BRUMFIELD W28** POTTER & BRUMFIELD W23/W31



Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi90/10: 10mA at 12VDC: AgCdO and AgSnO₃: 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.

Potter & Brumfield W33

Thermal overload/trip free Operation Thermal overload/trip free operation Optional indicator lamp Optional auxiliary switch Combines on/off switching and circuit Optional indicator lamp protection in a single unit UL 1077, CSA

Potter & Brumfield W51

Rocker actuated with switch overload sensing

Combines power switching and circuit protection in a single unit

Compact design PCB termination options UL1077, cUL, VDE, CCC

Potter & Brumfield W54

Thermal overload/trip free operation Push to reset Visual trip indication Multiple termination options UL 1077, UL 1500, cUL, VDE, CCC, CSA. (>30A not UL1500 or CSA) (>20A not VDE)



PCB mount not applicable. Visit **TE.com** for more information



PCB mount not applicable. Visit **TE.com** for more information



PCB mount not applicable. Visit **TE.com** for more information

Typical applications

Generators, General Aviation, Medical, Marine Power Supplies, Lighting, Surge Protection Audio, pool and spa, appliances, Industrial controls

Generators, General Aviation, Medical, Marine Power Supplies, Lighting, Surge Protection Audio, pool and spa, appliances,

Industrial controls

Generators, general aviation, medical, marine Power supplies, lighting, surge protection Audio, pool and spa, appliances, Industrial controls

Operational Data

| Туре | Thermal | Thermal | Thermal |
|----------------------------|--|--|----------------|
| Number of Poles | 1-2 | 1 | 1 |
| Circuit function | Series trip both poles; series trip 1 pole/switch only 1 pole; switch only 2 poles | Series trip | Series trip |
| Ambient temperature (max.) | -20 to +65 °C | 0°C to + 60 °C for 10-20A models 0°C to + 50 °C for 5-8A models | 0 to 60 °C |
| Terminal type | Standard quick connect 250in x | Standard quick connect | Standard quick |

Terminal type Standard quick connect 250in x .032in and solder option Mounting Snap-in

Rocker

43.8 x 24.9 x 48.0mm

250inx.032in/solder option/PCB Snap-in, PCB

Standard quick connect 250inx.032in and #8-32 screw 3/8"-24, M11-1.0, M12-1.0

Rocker 21.8 x 15.2 x 32.0mm

threaded bushing Push-to-reset 31.0 x 14.6 x 35.0mm (W54) 22.6 x 14.6 x 29.2mm (W57)

Electrical Data

Calibration

Dimension L*W*H

Manual operation Actuator

| Dielectric strength | 2000Vrms | 1500VAC | 1500VAC |
|------------------------|---|---|---|
| Insulation Resistance | | 100M Ω | 100ΜΩ |
| Max Operating Voltages | 50VDC | 50VDC | 50VDC |
| | 250VAC | 125/250VAC (model dependent) | 250VAC |
| Rated current | 2A to 20A | 5A to 20A | 5A to 40A |
| Interrupt capacity | 1000A at 50VDC, 250VAC/60Hz and 125/250VAC 400Hz; 1500A at 25/250VAC/60Hz | 1,000 amps in accordance with UL standard 1077 | 1,000 amps in accordance with UL standard 1077 |

Will continuously carry 100% of Will continuously carry 100% of rating. May trip between 101% and rating. May trip between 101% and 134%, but must trip at 135% of rating within one hour at +25°C within one hour at +25°C. 150% for 150% for 5-8A models 5-8A models

Will continuously carry 100% of rating. May trip between 101% and 134%, but must trip at 135% of rating 134%, but must trip at 135% of rating within one hour at +25°C

Resetable OverloadCapacity Ten times rated current

Ten times rated current. Switch Ten times rated current. Endurance Cycling: Typically 6,000

operations at 100% of rating Reset Time 60 Seconds 60 Seconds

Accessories Protective boot, knurl nut, hex nut, lockwasher, nameplate **POTTER & BRUMFIELD W54** Link to datasheet **POTTER & BRUMFIELD W33 POTTER & BRUMFIELD W51**



Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi9.0/10: 10mA at 12VDC: AgCdO and AgSnO.; 100mA at 12VDC. Please contact technical support for detailed technical data.

Potter & Brumfield W57

(3A.4A.20A no VDE)

Thermal overload/trip free operation Push to reset Compact design Cannot be manually tripped PCB termination options UL 1077, UL 1500, cUL, VDE, CCC.

Potter & Brumfield W58

Thermal overload/trip free operation Push to reset Cannot be manually tripped Visual trip indication UL 1077, UL 1500, CSA. (30A not UL or CSA)

Potter & Brumfield W6/W9

Magnetic hydraulic actuation/trip-free operation Several delay curve options Fungus and moisture resistant

UL 1077, UL 1500, CSA, VDE



PCB mount not applicable. Visit **TE.com** for more information



PCB mount not applicable. Visit **TE.com** for more information



PCB mount not applicable. Visit $\underline{\text{TE.com}}$ for more information

Applications

Generators, general aviation, medical, marine Power supplies, lighting, surge protection Audio, pool and spa, appliances, Industrial controls

22.6 x 14.6 x 29.2mm (W57)

Generators, general aviation, medical, marine Power supplies, lighting, surge protection Audio, pool and spa, appliances, Industrial controls

HVAC (transformers), general aviation, medical, marine Power supplies, lighting, surge protection Audio, pool and spa, appliances, Industrial controls

46.9 x 19.0 x 63.5mm (W9 per pole)

POTTER & BRUMFIELD W6/W9

Operational Data

Type Magnetic/hydraulic Thermal Thermal **Number of Poles** 1-4 Circuit function Series trip Series trip Series trip Ambient temperature (max.) 0 to 60°C -25 to 65°C -40 to +85 °C Terminal type Standard quick connect Standard quick connect W6-Standard Quick Connect .250in x .032in and #8-32 or #10/32 .250in x .032in and #8-32 screw .250in x .032in and #8-32 screw and PCB option screw. W9- #10/32 stud terminations Mounting 3/8"-24, M11-1.0, 7/16"-28, 15/32"-32, 6-32, M3 tapped holes M12-1.0 threaded bushing 3/8"-24 threaded bushing" Manual operation Actuator Push-to-reset Push-to-reset Togale Dimension L*W*H 31.0 x 14.6 x 35.0mm (W54) 34.9 x 16.8 x 34.9mm 41.7 x 19.0 x 50.8mm (W6 per pole)

Electrical Data Dielectric strength 1500VAC 1500Vrms 50/60 Hz, 1,500V: DC, 1100V Insulation Resistance 100 megohms at 500VDC 50VDC, 250VAC Max Operating Voltages 50VDC, 250VAC 50/60 Hz 65VDC, 277VAC, 480VAC - 3Ø wye Rated current 3A to 20A 0.5A to 30A 0.20A to 50A 1000 amps in accordance with 2000 amps at 50VDC (0.5 - 30 up to 5000A with UL 1077, CSA, Interrupt capacity UL standard 1077 amp models) 1000 amps at VDE. Up to 3000A for UL 1500 250VAC (0.5 - 30amp models). Note: 30 amp model not UI or CSA Calibration Will continuously carry 100% of Breaker will continuously carry Breakers will hold 100% rated rating. May trip between 101% and 100% of rated load. It may trip current. May trip between 101% and 134%, but must trip at 135% of between 101% and 145% of rated 124% rated load (134% for AC/DC rating within one hour at +25°C load, but must trip at 145% units) Must trip at 125% rated load at 25°C (135% for AC/DC units) **Resetable Overload Capacity** Ten times rated current Ten times rated current Ten times rated current Reset Time 60 Seconds 60 Seconds Protective boot, knurl nut, hex nut, Protective boot, knurl nut, hex nut, Toggle guard (W6 only) Accessories lockwasher, nameplate lockwasher

POTTER & BRUMFIELD W58

POTTER & BRUMFIELD W57



Link to datasheet

Recommended minimum load indication for contact material: AU and gold plated: 1mA at 6VDC; AgNi0.15 and AgNi9.0/10: 10mA at 12VDC: AgCdO and AgSnO₂: 100mA at 12VDC. Please contact technical support for detailed technical data.

4000 SERIES WIRE LEAD CLASS II CONTROL TRANSFORMERS

5VA to 75VA UL 5085-3, formerly UL 1585 Inherently/non-inherently energy limited Wire lead terminations Custom specification/design available



5VA to 75VA UL 5085-3, formerly UL 1585 Inherently/non-inherently energy limited Quick connect terminals Custom specification/design available





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Visit **TE.com** for more information

| Typical Applications | HVAC | HVAC |
|------------------------------|---|---|
| 21 | Industrial and residential | Industrial and residential |
| | Motor control | Motor control |
| Specifications | | |
| Primary Voltage- AC | 120, 208, 240, 277, 380, 415, 480, 575 | 120, 208, 240, 277, 380, 415, 480, 575 |
| Secondary Voltage- DC | 12 or 24 | 12 or 24 |
| Insulation Class | UL Class B (130°C) | UL Class B (130°C) |
| Wire Size | Standard 18 AWG stranded, 12in | N/A |
| QC size | N/A | standard .250in x .032in |
| Terminations | Same side - opposite side | Type BB Same side |
| | ., | Type AB Opposite side |
| | | Type AE Laydown |
| Frequency | 50/60 Hz | 50/60 Hz |
| Mounting Options | Type K Foot Mount | Type K Foot Mount |
| | Type G Panel Mount | Type G Panel Mount |
| | Plate Mount | Plate Mount |
| Other Data | | |
| Secondary Fusing Requirement | 60VA-75VA non-inherently energy limited | Internal fuse or integral circuit breaker 75VA standard models come with integral |
| | | circuit breaker |
| Shielding | Internal fuse or integral circuit breaker | |
| Dielectric Strength | 75VA standard models come with integral circuit breaker | |
| Link to datasheet | 4000 SERIES | 4000 SERIES |
| | WIRE LEAD CLASS II CONTROL TRANSFORMERS | QUICK CONNECT CLASS II CONTROL TRANSFORMERS |



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.

4700 SERIES GENERAL PURPOSE POWER TRANSFORMERS

60VA to 150VA UL 5085-1,-2 formerly UL 50 Non-fused Wire leads or quick connects Custom specification/design available

4900 SERIES PRINTED CIRCUIT MOUNT POWER TRANSFORMERS

1.1VA to 36VA UL 5085-1,-2 formerly UL 506 Drop in replacement Split bobbin design Signal or dual primary voltage Custom specification/design available



Visit $\underline{\text{TE.com}}$ for more information



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| Applications | HVAC | Industrial controls, garage door openers |
|------------------------------|--|--|
| | Industrial | small power supplies, control boards |
| | Motor control | lighting/monitoring controls, vending machines |
| Specifications | | |
| Primary Voltage- AC | 120, 208, 240, 230, 277, 460, 480, 575 | Single 115VAC, 6-pin Dual 115/230VAC, 8-pin |
| Secondary Voltage- DC | 24 | Series 10-120VCT Parallel 6-60VAC |
| Insulation Class | UL Class B (130°C) | UL Class B (130°C) |
| Wire Size | Standard 18 AWG stranded, 12in | N/A |
| QC size | Standard .250in x .032in | N/A |
| Terminations | Type BB same side Type AB opposite side | PCB through hole design |
| Frequency | 50/60 Hz | 50/60 Hz |
| Mounting Options | Type K foot mount | PCB through hole design |
| Other Data | | |
| Secondary Fusing Requirement | | |
| Shielding | | Electrostatic shielding not required due to split bobbin |
| Dielectric Strength | | 1500Vrms |
| Link to datasheet | 4700 SERIES GENERAL PURPOSE POWER TRANSFORMERS | 4900 SERIES PRINTED CIRCUIT MOUNT POWER TRANSFORMERS |

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.





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