



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.



RELAYS, CONTACTORS & CIRCUIT BREAKERS

Power PCB Relays up to 16A4
Power PCB Relays up to 50A+11
Force Guided Relays14
Panel Plug-In Relays
Signal Relays22
High Frequency Relays
Solid State Relays
Circuit Breakers
Transformers



WHAT'S INSIDE



SCHRACK PE Low height 10.0mm

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

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Footprint 2) see footnote below	Ø1,3 ^{-0,1} 2,5-2,54 V 1,4		11,5 7,0 0 0 0 0 0 0 0 0
Applications	Industrial electronics White goods Measurement and control	PLC; Timers; I/O cards Temperature control White goods	Home applications HVAC
Contact Data			
Contact arrangement Rated voltage Rated current	1 form C (CO) 250VAC 5A (CO) 6A (NO)	1 form A (NO) 250VAC 6/5A	1 form A (NO) 250VAC 3A/5A (WG type)
Switching power / Max. break Contact material Min. recommended contact load	1250VA AgNi 90/10, AgSnO ₂ 1) see footnote below	1500/1250VA AgNi 0.15, AgNi 90/10 1) see footnote below	750VA/1250VA (WG type) AgNi 100mA at 5VDC
Coil Data			
Magnetic system Rated coil voltage Rated coil power	DC, bistable 3 to 48VDC 200mW	DC 5 to 48VDC 200/360mW	DC 5 to 24VDC 200mW
Dielectric Strength			
Initial dielectric strength between open contacts between contact and coil between adjacent contacts Clearance/creepage	1000Vrms 4000Vrms	1000Vrms 4000/3000Vrms	750Vrms 4000Vrms
between contact and coil	3.2/4mm	4/4mm	8/>8mm
Other Data			
Ambient temperature (max.) Category of environmental protection IEC61810	+ 85°C RTII, RTIII	+70°C (RE)/ + 85°C (REL) RTIII(RE), RTII(REL)	+ 85/ +105°C (WG type) RTII, RTIII
Terminal type Mounting Dimensions	THT PCB 20x10x10mm	THT PCB 20x10x10.6mm/20.7x10.7x12mm	THT PCB 20.4x7x15mm
Accessories			
Link to datasheet	SCHRACK PE	SCHRACK RE SCHRACK REL	PCJ

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

Power PCB Relays up to 16A

Relays, Contactors & Circuit Breakers

Key Features

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)

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Footprint 2) see footnote below	$2-\phi_{1,2\pm0,2} - 10.2\pm0.1 - 5.1\pm0.1$	(1.3) .067 (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7) (1.7)	8 0 0 0 0 0 0 0 0 0 0 0 0 0
Applications	Appliances HVAC Refrigerators, microwave ovens	Appliances HVAC Industrial control	PLC Temperature control I/O modules
Contact Data			
Contact arrangement Rated voltage Rated current Switching power / Max. break	1 form C (CO), 1 form A (NO) 277VAC/30VDC 3/5/10A 1400VA/150W (NO)	1 form A (NO) 250VAC/28VDC 3/5/8/10A 720 to 2500VA/	1 form A (NO) 250VAC 3A/5A 750VA /1250VA
Contact material Min. recommended _contact load	850VA/90W (NC) AgSnO ₂ 100mA at 5VDC	90 to 240W Ag, AgCdO, AgSnO ₂ 1) see footnote below	AgNi gold plated 100mA at 5VDC
Coil Data			
Magnetic system Rated coil voltage Rated coil power	DC, sensitive 3 to 48VDC 200/400mW	DC, sensitive 3 to 48VDC 200/250/450mW	DC 3 to 24VDC 100mW/120mW
Dielectric Strength			
between open contacts between contact and coil between adjacent contacts Clearance/creepage	750Vrms 4000Vrms	750/1000Vrms 3000/4000Vrms	750Vrms 3000Vrms
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	
umensions (IWh)	ZUXIUXI5.2MM	18.2X1U.2X14.7MM	20x5X12.5MM
Accessories			
Link to datasheet	<u>PCH</u>	<u>OJ/OJE</u> <u>T77</u>	PCN



Power PCB Relays up to 16A Relays, Contactors & Circuit Breakers

Key Features	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
	V23032-SCHPACE		The second second
Footprint 2) see footnote below	1.25-1.27 1 1 1 1 1 1 1 1		
Applications	Interface technology PLC, timers, Heating control	Interface technology HVAC, PLC, Power supplies Domestic appliances	Interface technology HVAC, PLC, Power supplies Domestic appliances
Contact Data			
Contact arrangement	1 form C (CO), 1 form A (NO)	1 form C (CO), 1 form A (NO),	1 form C (CO)
Rated voltage Rated current Switching power / Max. break Contact material Min. recommended _ contact load	250VAC 6A 1500VA AgSnO ₂ , AgSnO ₂ gold plated 100mA at 12VDC	1 from B (NC) 250VAC 8A 2000VA AgNi0.15, AgSnO ₂ , AgNi 0.15 gold plated 1) see footnote below	1 form A (NO) 250VAC 8/10A 2000VA AgNi90/10, AgSnO ₂ 1) see footnote below
Coil Data			
Magnetic system Rated coil voltage Rated coil power	DC 5 to 48VDC 170/217mW	DC 5 to 60VDC (223 - 257)mW	DC 3 to 60VDC (212-262)mW
Dielectric Strength			
Initial dielectric strength between open contacts between contact and coil between adjacent contacts Clearance/creepage between contact and coil	1000Vrms 4000Vrms 6/8mm	1000Vrms 5000Vrms 8/8mm	1000Vrms 4000Vrms 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 DCD an an analysis	THT, THR	THT
Mounting Dimensions (lwh)	РСВ or on socket 28x5x15mm	PCB or on socket 28.5x10.1x12.3mm	PCB 28.6x10x15mm
Accessories	DIN rail sockets	PCB sockets	
Link to datasheet	SCHRACK SNR	SCHRACK RYII	SCHRACK MSR

Key Features	SCHRACK RZ High performance version available Reinforced insulation High ambient temperature version (105°C) WG type available (IEC 60335-1) AgNi and AgSnO contact versions THR (reflow) version	SCHRACK RT DC and AC coil Mono-or bistable coil Reinforced insulation WG type available (IEC 60335-1) High ambient temperature version (105°C) THR (reflow) version	SCHRACK RT INRUSH For inrush peak currents up to 80A Mono-or bistable coil Reinforced insulation WG type available (IEC 60335-1)
		Bifurcated contacts	3.
Footprint 2) see footnote below		2.52	20,3 ⁻⁰¹ 5,04 ^{-4,10} 20,3 ⁻⁰² 20,3 ⁻⁰² 22,66 ⁻¹²
Applications	Household appliances HVAC, Home automation Machine control, Energy control	HVAC, Home automation, Machine control, Energy control Switching cabinet, Interface modules	Lighting applications, Movement detectors, Motors control, Domestic appliances
Contact Data			
Contact arrangement	1 form C (CO) 1 form A (NO)	1 form C (CO), 1 from A (NO) 2 form C (CO), 2 form A (NO)	1 form C (CO) 1 from A (NO)
Rated voltage Rated current Switching power / Max. break Contact material Min. recommended contact load	250VAC 16A 4000VA AgNi90/10, AgSnO ₂ 1) see footnote below	250VAC 2X8/16A 2X2000/4000VA AgNi90/10, AgSnO ₂ 1) see footnote below	250VAC 16A 4000VA AgNi90/10, AgSnO ₂ 1) see footnote below
Coil Data			
Magnetic system Rated coil voltage Rated coil power	DC 5 to 48VDC 400mW	DC, AC, bistable 5 to 110VDC/24 to 230VAC 400mW/0.75VA	DC, bistable 5 to 11VDC 400mW
Dielectric Strength			
Initial dielectric strength between open contacts between contact and coil between adjacent contacts	1000Vrms 5000Vrms	1000Vrms 5000Vrms 2500Vrms	1000Vrms 5000Vrms
between contact and coil	>10/10mm	>10/10mm	>10/10mm
Other Data			., .
Ambient temperature (max.)	+85°C +105°C (HOT type)	+75°C (AC type) +85°C	+85°C
Category of environmental protection IEC61810	+70°C (transparent cover type) RTII, RTIII	RTII, RTIII	RTII
Terminal type	ТНТ	THT, THR (DC and AC type)	ТНТ
Mounting	PCB	PCB or on socket	PCB or socket
	29x12./x15./mm	PCR and DIN rail sockets	29x12./x15./mm
LINK to datasheet	SCHRACK RZ	SCHRACK RI	SCHRACK RT INRUSH



Key Features	5
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SCHRACK RTX

EN60669-1

Inrush peak currents up to 370A Bistable coil Reinforced insulation 16A rated fluorescent load acc.

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

	8A electronic ballast acc. UL508 11/2 HP motor load acc. UL508	Test tab (manual operator) optional for RTT3T bistable versions	
	The second second	A STREET	
Footprint 2) see footnote below	21,3 ⁴¹ 20,3 ⁴² 22,65 ⁴² 5044.5M	16A, pinning Smm 2522 164, pinning Smm 2522 164, pinning Smm 25, 00, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	
Applications	Lighting control systems Motion sensors Home automation applications	LED lighting systems, Lighting control, Movement detectors Filament and incandescent lamp Motor control	Lighting control Motor control Building automation
Contact Data			
Contact arrangement Rated voltage	1 from A (NO) 250VAC	1 from A (NO) 250VAC	1 form A, 1 NO 250VAC
Rated current	16A	16A	16A
Switching power / Max. break	4000VA	4000VA	4000VA
Contact material	W (pre-make contact) + AgSnO $_2$	W (pre-make contact) + AgSnO ₂ AgSnO ₂	AgSnO ₂
Min. recommended contact load	1) see footnote below	1) see footnote below	100mA at 12VDC
Coil Data			
Magnetic system	Bistable	DC, bistable	DC
Rated coil voltage	5 to 48VDC	5 to 11VDC	6 to 110VDC
Rated coil power	650mW/665mW	400mW	500mW
Dielectric Strength			
Initial dielectric strength			
between open contacts	1250Vrms	1250Vrms	2000Vrms
between contact and coll	5000vrms	5000 Vrms	4000Vrms
Clearance/creepage			
between contact and coil	min. 6/6mm	10/10mm	8/8mm
Other Data			
Ambient temperature (max.)	+70°C	RTS3L/RTS3T +105°C, RTSET +85°C	+70°C
Category of environmental protection IEC61810	RTII	RTII	RTII, RTIII
Terminal type	ТНТ	ТНТ	ТНТ
Mounting	PCB	PCB	PCB
Dimensions (lwh)	29.1x12.7x16mm	29x12.7x15.7mm (RTS3T), 29x12.7x16.0mm (RTS3L)	29x12.6x25.5mm
Accessories			
Link to datasheet	SCHRACK RTX	SCHRACK RT IPOWER	SCHRACK RP3SL

1) Recommended minimum load indication for contact material: AU and gold plated: ImA 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

2) see footnote below

Applications

Contact Data Contact arrangement

Rated voltage

SCHRACK RP-2POLE 1.5MM SCI

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

2,4

Solar Inverter

2 form A, 2 NO

250VAC

UPS

Domestic appliances

SCHRACK PB/PBH

Compact and simple design gives high process security High ambient temperature version up to 105°C (PBH) WG type acc. IEC 60335-1

SCHRACK ORWH

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



Link to datasheet	SCHRACK RP-2POLE 1.5MM	<u>SCHRACK PB</u> SCHRACK PBH	SCHRACK ORWH
Accessories			
Dimensions (lwh)	29x12.6x25.5mm	15x15x20mm	19.0x15.5x15.8mm
Mounting	PCB	PCB	PCB
Terminal type	ТНТ	ТНТ	THT
Category of environmental protection IEC61810	RTII, RTIII	RTII	RTII, RTIII
Ambient temperature (max)	+40°C	+85°C/+105°C	+85°C
Other Data			
Clearance/creepage between contact and coil	7/8mm	3/4mm / 4/5mm	3.2mm
between adjacent contacts	300Vrms		
between contact and coil	5000Vrms	2500Vrms	1500Vrms
Initial dielectric strength	25000Vrms	1000Vrms	750Vrms
Dielectric Strength			
Rated coil power	780mW	360mW/500mW	360mW
Magnetic system Rated coil voltage	DC 5 to 110VDC	DC 5 to 48VDC	DC 5 to 24VDC
Coil Data			
contact load	IOUMA at I2VDC	1) see loothote below	
Contact material	AgSnO ₂	AgNI90/10, AgSnO	AgZnO, AgNi
Switching power / Max. break	2000VA	2500VA	2770VA/360W
Rated current	8A	10A	10A



Potter & Brumfield T9G High breaking capacity

4kV/8mm coil-contact

Minimum board space

UL-class F as standard

(29mm x 21.5mm)

PCB and quick connect connections

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)

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Footprint 2) see footnote below		140 MAX 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.5	3.32 ² 4.83 1.35 1.35 1.45 1.45 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44
Applications	HVAC, Appliances Industrial control Energy management	HVAC Appliances Industrial controls	Photovoltaic inverter Electrical vehicle loading stations Electrical vehicle
Contact Data			
Contact arrangement	1 form C (1 CO) 1 form B (1 NC) 1 form A (1 NO)	1 form C (1 CO) 1 form B (1 NC) 1 form A (1 NO)	1 form A (1NO)
Rated voltage	250VAC	250VAC	277VAC (1.5mm gap), 250VAC (1.8mm gap)
Rated current Switching power / Max. break	30A	30A 7500VA	35A (T9S) , 40A (T9V) 9695VA (T9S), 10000VA (T9V)
Contact material Min. recommended contact load	AgSnO ₂ 1A at 12VAC/VDC	AgCdO, AgSnInO 1A at 5VDC or 12VAC	AgNi 1A at 5VDC/12VAC
Coil Data			
Magnetic system Rated coil voltage Rated coil power	DC 5 to 110VDC 900mW	DC 6 to 48VDC 1W/900mW	Monostable 12VDC 2.25W
Dielectric Strength			
Initial dielectric strength between open contacts between contact and coil between adjacent contacts	1500Vrms 4000Vrms	1500Vrms 2500Vrms	2500Vrms 4000Vrms
Clearance/creepage between contact and coil	6.4mm / 9.5mm (UL) 8mm / 8mm (IEC)	3.1/6.3mm	3/4mm
Other Data			
Ambient temperature (max.)	+105°C	+85°C	+85°C
Category of environmental protection IEC61810	RTII, RTIII	RTO, RTI, RTII, RTIII	RTII/RTIII
Terminal type	THT/Quick connect	THT/Quick connect	PCB
Dimensions (lwh)	РСВ 29x21.5x15.7mm	32.3x27.4x20.4mm	РСВ 32x27x20mm
Accessories			

 Link to datasheet
 Potter & Brumfield T9G
 Potter & Brumfield T9A
 Potter & Brumfield T9V

 Potter & Brumfield T9G
 Potter & Brumfield T9A
 Potter & Brumfield T9V



Relays, Contactors & Circuit Breakers

Key Features

Potter & Brumfield T92

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

PCF

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

> 1.09 ± .008 (27.6 ± .2)

> > 1.244 ↑ 1.6.2) .472 ± .00 1.228 (12.0 ± .2) 1.5.8) ↓

PCFN SOLAR

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



2x Ø1.8 2x Ø1.6 2x Ø1.6 2x Ø1.6 12.0 10.0

Applications

2) see footnote below

Footprint

$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$
HVAC
Residential/commercial appliances

Industrial controls

2 - .063 DIA (1.6) Applicances HVAC Office machines

! - .071 DIA (1.8) \

Photovoltaic Inverter

Link to datasheet	Potter & Brumfield T92	PCF	PCFN SOLAR
Accessories			
Dimensions (lwh)	52.3x34.6x30.8mm	30.4x16x26.5mm	30.4x16x26.5mm
Mounting	Panel mount, PCB	PCB	PCB
Terminal type	THT/Quick connect	THT/Quick connect (#250)	PCB-THT
Category of environmental protection IEC61810	RTI, RTII, RTIII	RTII	RTII
Ambient temperature (max.)	DC Coil +85°C; AC Coil +65°C	+85°C	+85°C
Other Data			
between contact and coil	8/9.5mm	6.7/>8mm	6.1/6.1mm
Clearance/creepage			
between adjacent contacts	2000Vrms		
between contact and coil	4000Vrms	4000Vrms	4000Vrms
Initial dielectric strength	1500\/rms	1000Vrms	2500Vrms
Dielectric Strength			
	1.7 VV/4.0 VA	3001111	
Pated coil power	1.7W/A OVA	900m\\/	15W/200mW bold power
Magnetic system	DC, AC $5 to 110 VDC/12 to 240 VAC$		DC 12VDC and 24VDC
contact load	at 12VAC		
Min. recommended	500mA (NO)/ 100mA (NC)	100mA at 5VDC	100mA at 5VDC
Contact material	AgCdO, AgSnInO	Visit <u>TE.com</u> for more information	AgSnO ₂
Switching power / Max. break	7500VAC	6370VA	7200VA
Rated current	30A	25A	26A
Rated voltage	400VAC	250VAC	277VAC
Contact arrangement	2 form A (2 NO)	TIOMIA (TNO)	TIOTTI A (TNO)



Power PCB Relays up to 50A+

Relays, Contactors & Circuit Breakers

Key Features

EW60

6-ø2.5±0.1-

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

> © 12VDC 7 60A 250VAC

> > -ø1.2±0.1

E TE W60-1A3-BL12D04 RN_{US}_____

EW100/120

1 pole 120A, 1 form A (NO) contact Polarized bistable with two coils latching 4KV/ 8mm coil - contact Reinforced insulation



Visit **TE.com** for more information

Applications

2) see footnote below

Footprint

Lighting control, bus actuator, power distribution, circuit protection, inverter

8.7

Energy counter, prepaid power meter

Contact Data		
Contact arrangement	1 form A (1 NO)	1 form A (1 NO)
Rated voltage	440VAC	250VAC
Rated current	60A	100A/120A
Switching power / Max. break	15000VA	30000VA
Contact material	AgSnO ₂	AgSnO ₂
Min. recommended contact load	Visit <u>TE.com</u> for more information	Visit <u>TE.com</u> for more information
Coil Data		
Magnetic system	Bistable	Bistable
Rated coil voltage	5 to 24VDC	6 to 24VDC
Rated coil power	1.5W/3W	4.5W
Dielectric Strength		
Initial dielectric strength		
between open contacts	1500Vrms	2000Vrms
between contact and coil	4000Vrms	4000Vrms
between adjacent contacts		
Clearance/creepage		
between contact and coil	≥6/9mm	≥10/10mm
Other Data		
Ambient temperature (max.)	+70°C	+70°C
Category of environmental protection IEC61810	RTI	RTII - flux proof
Terminal type	PCB	PCB, Copper
Mounting	PCB	Visit <u>TE.com</u> for more information
Dimensions (lwh)	36.8×17.2x30.4mm	36.8x21.8x41.9mm
Accessories		
l ink to datasheet	EW60	EW100/120



Power PCB Relays up to 50A+

Relays, Contactors & Circuit Breakers

Key Features

IHV

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

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



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

ApplicationsDC charging, Solar inverter, Energy store stationIndustrial controlsBMS, Electrical forklift, AGV, Rail transitLightingCircuit protection and Safety in Industrial Machinery

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 <u>TE.com</u> 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 0/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		Ø1.3 ^{-0.1}
Applications	Safety modules Process technology Elevator and Escalator control	Safety modules Process technology 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		2000VA
Contact material 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
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	ТНТ
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



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

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Footprint 2) see footnote below	<u>14 x Ø1.3^{-6.1}</u>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Applications	Safety modules Process technology Elevator and escalator control	Safety modules Process technology 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
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	ТНТ	ТНТ
Mounting	PCB	PCB
Dimensions (lwh)	55x16.5x16.5mm	55.5x33.8x10.8mm
Accessories		
Link to datasheet	SCHRACK SR6	SCHRACK SRL7



SNR

creepage

Panel board

Mechanical engineering

Key Features

SCHRACK SLIM INTERFACE SCHRACK INTERFACE **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

The second se
Interface technology

Strong coil pins for DIN-rail socket

LED and protection circuit standard

4kV coil-contact, 6/8mm clearance/

System width only 6.2mm



5,04 ⁻⁶³⁰ 20,3 ⁴⁶² 22,65 ⁻⁶²	5,04 ^{46,18} 20,3 ⁴¹² 22,65 ⁶⁶²
Panel board Mechanical engineering Machine Industry	Panel boards Mechanical engineering
1 form C, (1 CO)	1 form C, (1 CO)

. .

Applications

Contact Data			
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)
Rated voltage	250VAC	240VAC	240VAC
Rated current	6A	8/16A	8/16A
Switching power / Max. break	1500VA	2000/4000VA	2000/4000VA
Contact material	AgSnO ₂ , AgSnO ₂ Au plated	AgSnO₂, AgNi90/10 AgNi90/10 Au plated	AgNi90/10
Min. recommended contact load	1) see footnote below	1) see footnote below	10mA at 12VDC
Coil Data			
Magnetic system	DC	DC, AC	DC, AC
Rated coil voltage	5 to 60VDC	5 to 110VDC/24 to 230VAC	12 to 110VDC/24 to 230VAC
Rated coil power	170mW	400mW/0.75VA	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,

bars jumper bars Link to datasheet SCHRACK SLIM INTERFACE SNR SCHRACK INTERFACE RELAY RT SCHRACK INTERFACE RELAY XT

 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.

Key Features	Potter & Brumfield R10 Broad range of coil options provide sensitivity ranging from 25 to 750mW	SCHRACK PT/ Potter & Brumfield KH Sensitive coil	Potter & Brumfield K10 Mounting options include socket, PCB, top flange
	Various contacts switch from dry circuit to 7.5A Many mounting and termination options	Low height 29/33mm Manual test tab, optionally lockable Mechanical indicator Optional LED, protection diode	DC and AC coils LED versions available
		U D C C C C C	
Footprint 2) see footnote below	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\begin{array}{c} 394 \\ 185 \\ (10.01) \\ (5.89) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ (7.24) \\ ($
Applications	Coin changers Audio equipment Ultrasonic test equipment	Machine industry Elevator industry Building management	Industrial controls Motor controls 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
between contact and coll	1000 Vrms	2500 Vrms	2500/1500Vrms
Clearance/creepage	1000 viilis	2000/2300 vinis	2300/1300 01115
between contact and coil	Visit <u>TE.com</u> 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 Dimensions (lwh)	Socket, panel mount and PCB 29.6x18.7x30.2mm	Socket, PCB 28x22.5x29/30/36mm	Socket and bracket mount 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
Link to datasheet	Potter & Brumfield R10	Potter & Brumfield KHA	Potter & Brumfield K10



Kev	Features	
r\cy	reatures	

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

SCHRACK RM2/3/7

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



HVAC

240VAC

2400/4155VA

Ag, AgCdO, AgSnOInO

100mA at 12VDC(Ag) 300mA at 12VDC (AgCdO, AnSnOInO)

10/15A

Pump motor controls

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)

Hospital beds

Footprint 2) see footnote below

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



Mechanical engineering Elevator control, Plant control Baggage handling

Contact Data

Rated voltage

Rated current

Contact material

contact load

Min. recommended

Contact arrangement

1 form C (1 CO) (KRPA) 2 form C (2 CO) 3 form C (3 CO)

240VAC 4/10A Switching power / Max. break 500/2400/2500VA AgCdO, AgNi90/10, AgNi90/10 Au plated 1) see footnote below

400VAC 10/16A 3800/6000VA AgCdO, AgNi90/10 in preparation

100mA at 12VDC

Elevator control

Power supplies

2 form C (2 CO) 3 form C (3 CO)

Coil Data			
Magnetic system Rated coil voltage Rated coil power	DC, AC 6 to 220VDC/6 to 240VAC 760mW to 1.3W/0.74 to 2.3VA	DC, AC 6 to 220VDC/6 to 400VAC 1.2 to 1.8W/2 to 2.8VA	DC, AC 5 to 110VDC/6 to 240VAC 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 <u>TE.com</u> for more information
Other Data			
Ambient temperature (max.)	DC +60/+70°C AC +50/+55°C	+50/+70°C	DC +50/+70/+95°C AC +45/+55/+70°C
Category of environmental protection IEC61810	RTI	RTI	RTI
Terminal type	Plua-in	THT. Plug-in, solder, Quick connect	THT. Plug-in, solder, Quick connect
Mounting	Socket	Socket, PCB, bracket, flange mount and DIN-snap-on	Socket, PCB, bracket, flange, stud and tapped core
Dimensions (lwh)	35.7x35.7x50.8/57mm	38.5x35.5x48.5mm	38.9x35.7x48.4mm
Accessories	DIN rail and PCB sockets, clips, marking tags, modules	DIN rail and PCB sockets, clips	DIN rail, panel and PCB sockets, clips
Link to datasheet	Potter & Brumfield KRPA SCHRACK MT	SCHRACK RM2/3/7	Potter & Brumfield KUIP KUGP KUM KUMP KUP

 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.



SCHRACK MT

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



Footprint

2) see footnote below

	PCB mount not applicable. Visit <u>TE.com</u> for more information		
Applications	Cleaning equipment Heating equipment Cooling equipment	Baggage handling motors Industrial pumps Commercial ovens	Power supplies Pump control
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	25/30/324	20/30A	10/16A
Switching power / May break	6000/7500\/A	4800/7200VA	3800/6000VA
Contact material	AaCdO AaNigO/10	AaCdQ, AaSnQInQ	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	Bracket and top flange	Socket, PCB, bracket, flange mount
-	and DIN snap-on	panel 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
Link to datasheet	SCHRACK RM8C/D	Potter & Brumfield KUHP	SCHRACK RM5/6/B 3MM



Potter & Brumfield KUGP 3mm contact gap

Plug-in version, PCB terminals or

DC or AC coil

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



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) 2 form C (2 CO) 3 form C (3 CO)	1 form C (1 CO) 2 form C (2 CO) 3 form C (3 CO)
Rated voltage Rated current Switching power / Max. break Min. recommended contact load	4 form C (4 CO) 240/250VAC 6 to 16A	4 form C (4 CO) 240/250VAC 6 to 16A 1500 to 4000VA 1) see footnote below
Coil Data		
Magnetic system Rated coil voltage Rated coil power		DC, AC 6 to 220VDC/6 to 230VAC 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 Terminal type Mounting Dimensions (lwh)	IP20 Screw, screwless, plate mount, PCB	Screw, screwless
Accessories	PCB, panel mount and DIN rail	DIN, panel mount
Link to datasheet	ACCESSORIES SLIM INTERFACE RELAY SNR ACCESSORIES INDUSTRIAL POWER RELAY RT ACCESSORIES MINIATURE RELAY PT ACCESSORIES INTERFACE PLUG-IN RELAY XT	RELAY PACKAGE RT RELAY PACKAGE PT RELAY PACKAGE SNR 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 Axicom IMB Axicom IMC 4G telecom/signal relay/switching relay 4G telecom/signal relay/switching relay 4G telecom/signal relay/switching relay **Key Features** Slim line 10x6mm, low-profile 5.65mm Slim line 10x6mm, low-profile 5.65mm Slim line 10x6mm, low-profile 5.65mm Switching power 60W/62.5VA Switching power 60W/62.5VA Switching power 60W/62.5VA Switching voltage 220VDC/250VAC Switching voltage 220VDC/250VAC Switching voltage 220VDC/250VAC Monostable + Bistable Monostable + Bistable Monostable + Bistable Low rated coil power Very high dielectric version High dielectric version High dielectric version **Bifurcated contacts** High current version up to 4 A High current version up to 5 A Bifurcated contacts High contact stability version Bifurcated contacts + single contact Footprint 5.4 2) see footnote below 1.2±0.18 0.7±0.1 0.7 ± 0 1.2±0.1 **Applications** Telecommunication, access and Telecommunication, access and Telecommunication, access and transmission equipment transmission equipment transmission equipment Thermostat controls, fire and security Thermostat controls, fire and security Thermostat controls, fire and security equipment equipment equipment Measurement and test equipment, Measurement and test equipment, Measurement and test equipment, Industrial controls, medical equipment Industrial controls, medical equipment Industrial controls, medical equipment **Contact Data** Contact arrangement 2 form C. 2 CO 1 form A, 1 NO 1 form C, 1 CO Single contact + Bifurcated contacts **Bifurcated contacts Bifurcated contacts** Rated voltage 250VAC/220VDC 250VAC/220VDC 250VAC/220VDC Rated current 2/5A 2A 2/4A Switching power / Max. break 60W/62.5VA 60W/62.5VA 60W/62.5VA Min. recommended contact load 100µV/1µA 100µV/1µA 100µV/1µA Initial contact resistance <50mΩ at 10mA/30mV I: < 100mΩ <100m Ω at 10mA/30mV $<50m\Omega$ at 10mA/ 30mV Coil Data Magnetic system Polarized Polarized Polarized 1.5 to 24VDC 1.5 to 24VDC Rated coil voltage 1.5 to 24VDC 50 to 200mW-/-140mW/-/-Rated coil power 140mW/-/-DC coil / bistable 1 coil/2 coils **Dielectric Strength** Initial dielectric strength between open contacts 750 to 1500Vrms 2500Vrms 1000 to 1600Vrms 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 1.06/1.49 Volt. standing wave ratio 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 Category of environmental IP67/RTV 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



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

-P2 SMT L Layout

Axicom P2 LIGHTING

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



LED tubes Office equipment Security systems, set top boxes

Footprint

Applications

2) see footnote below



Telecommunication, access and transmission equipment, fire and security equipment Thermostat controls

	Measurement and test equipment, Industrial controls, medical equipment	Set top boxes, office equipment	
Contact Data			
Contact arrangement	2 form B, 2 NC	2 form C, 2 CO	2 form C, 2 CO
	2 form A, 2 NO	Bifurcated contacts	Bifurcated contacts
	Bifurcated contacts		
Rated voltage	250VAC/220VDC	250VAC/220VDC	250VAC/220VDC
Rated current	2A	2A	2A
Switching power / Max. break	60W/62.5VA	60W/62.5VA	60W/62.5VA
Min. recommended contact load	100μV/1μΑ	100μV/1μΑ	100μV/1μΑ
Initial contact resistance	<50m Ω at 10mA/20mV	<50m Ω at 10mA/20mV	<50m Ω at 10mA/20mV
Coil Data			

1000 to 1500Vrms

1000 to 1500Vrms

2000 to 2500Vrms

1500Vrms

2500V

2500V

0,95

Security systems, consumer

Home automation systems,

electronics, thermostats

communication systems

Coil Data

Capacitance

between open contacts

Magnetic system Rated coil voltage Rated coil power DC coil / bistable 1 coil/2 coils

Dielectric Strength

Initial dielectric strength between open contacts 1000Vrms between contact and coil 1800Vrms between adjacent contacts 1000Vrms Initial surge withstand voltage 1500V between open contacts between contact and coil 2500V between adjacent contacts 1500V 37.0/18.8dB Isolation 100/900MHz Insertion loss 100/900MHz 0.03/0.33dB Volt. standing wave ratio 1.6/1.49 100/900MHz

Polarized

1.5 to 24VDC

140mW/-/-

max 1pF

Polarized 2.4 to 24VDC 140mW/70mW/140mW

Polarized 3 to 12VDC 140mW - 1 coil version

> 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
Link to datasheet	Axicom IMD/IME	Axicom P2 / P2 HIGH DIELECTRIC VERSION	Axicom P2 LIGHTING

 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.



Key	Features
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Axicom FP2

Slim line 14x9mm 2 form C bifurcated contacts High mechanical shock resistance, up to 1500g survival

in 0.85

Axicom D2N V23105

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



1.93±0.1

Keyless entry

1 form C (CO)

60W/62.5VA

<50mΩ at 10mA

2A

100µV

Polarized

2 to 24VDC

220VDC/250VAC

Communication equipment

Speaker switch, consumer electronics

80mW (high sensitive), 140mW



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2 form C, 2 CO Single Contacts 250VAC/220VDC

60W/125VA

100μV/10μA <100mΩ

Non polarized

150 to 700mW/-/-

3 to 48VDC

3A

Communication equipment Office equipment Measurement and control equipment

Contact Data

Applications

Footprint 2) see footnote below

Contact arrangement

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

Coil Data

Magnetic system Rated coil voltage Rated coil power DC coil/bistable 1 coil/2 coils

Dielectric Strength

Initial dielectric strength between open contacts 750Vrms 750Vrms between contact and coil 1000Vrms 1000Vrms between adjacent contacts 1000Vrms 750Vrms Initial surge withstand voltage 1100V 1500V between open contacts between contact and coil 1500V 1500V 1500V between adjacent contacts 1500V Cross talk -40.2/-22.3dB Isolation -39.0/-20.7dB Isolation/Cross talk at 100MHz/900MHz Insertion loss 100/900MHz 0.03dB/0.25dB -0.02/-0.27dB Volt. standing wave ratio 100/900MHz 1.01/1.07 1.04/1.40 Capacitance max. 2pF between open contacts Other Data Ambient temperature (max.) -40 to +85°C -25 to +85°C Category of environmental protection IP67/RTIII IP67/RTIII Terminal type ТНТ THT Dimension (lwh) 14x9x5mm 20.2x10x11.4mm

Link to datasheet Axicom FP2

Axicom D2N V23105



Key Features	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 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7	$\begin{array}{c} 2.54 \\ \hline \\ 9 \\ \hline \\ 0 \\ \hline \\ 1 \\ \hline \\ 0 \\ \hline \\ 1 \\ \hline \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$
Applications	Communication equipment Linecard application Measurement and control equipment	Automotive equipment CAN bus Imobilizer
Contact Data		
Contact arrangement Rated voltage Rated current Switching power / Max. break Min. recommended contact load Initial contact resistance	2 form C, 2 CO Bifurcated contacts 250VAC/220VDC 2A 60W/62.5VA 100µV/1µA <70m9	1 form C, 1 CO Bifurcated contacts 150VAC/125VDC 1A 30W/60VA 100μV/1μA <50mΩ
Coil Data		
Magnetic system Rated coil voltage Rated coil power DC coil/bistable 1 coil/2 coils	Non polarized 3 to 48VDC 150 to 550mW/-/-	Polarized 3 to 24VDC 65 to 130mW/30 to 130mW/70 to 200mW
Dielectric Strength		
Initial dielectric strength between open contacts between contact and coil between adjacent contacts	750Vrms 1000Vrms 750Vrms	500Vrms 1500Vrms
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	1500V 1500V -31.8/-14.2dB -0.02/-0.97dB 1.03/1.31 max. 2pF	2500V -30.0/-18.0dB -0.12/-1.90dB 1.06/1.75 max. 5pF
Other Data		
Ambient temperature (max.) Category of environmental protection Terminal type Dimension (lwh)	-55 to +85°C IP67/RTIII THT 20.2x10x11mm	-40 to +85°C IP67/RTIII THT, SMT 13x7.6x6.9mm
Link to datasheet	Axicom MT2	Axicom P1 V23026



Key Features	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
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Footprint 2) see footnote below	Ø 0,6+0,1 14,13 9,8 14,13 9,8 1,2 1,2 6,7 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2	6-0.31 DIA (5.08) (5.08) (2.54) (7.62) (7.62)	5 - 04 DIA. (10) (29) (7.5) (25) (25) (397) (10.1)
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 2 form A, 2 NO 1 from C, 1 CO	1 form C, 1 CO	1 form C, 1 CO 1 form A, 1 NO
Rated voltage Rated current Switching power / Max. break Min. recommended contact load Initial contact resistance	Reed contacts 175 to 200VAC/VDC 0.25 to 0.5A 3 to 10W 10μV/1μA <150mΩ	120VAC, 30VDC 1A 120VA, 24W 1mA at 1VDC 50mΩ at 100mA, 6VDC	120VAC/24VDC 1A 120VA, 30W 1mA at 1VDC
Coil Data			
Magnetic system Rated coil voltage Rated coil power DC coil/bistable 1 coil/2 coils	Non polarized 5 to 24VDC 50 to 300mW/-/-	DC, sensitive 3 to 24VDC 150, 300mW	DC, sensitive 5 to 24VDC 200, 450mW
Dielectric Strength			
Initial dielectric strength between open contacts between contact and coil between adjacent contacts Initial surge withstand voltage between open contacts	140 to 175Vrms 500vdc 500vdc	400Vrms 1000Vrms	500Vrms 1000Vrms
between open contacts between adjacent contacts Isolation 100/900MHz Insertion loss 100/900MHz Volt. standing wave ratio 100/900MHz		1500Vp (10/160μs)	1500Vp (10/160μs)
between open contacts	max. 1pF		
Other Data			
Ambient temperature (max.) Category of environmental protection Terminal type Dimension (lwh)	-20 to +70°C IP67/RTIII THT 19.3x5.7x7.5mm/19.8x5.1x8mm	40 to +80°C RTIII/IP67 THT 12.5x7.5x10mm	-40 to +60°C (standard) RTII, RTIII THT 15.4x10.4x11.2mm
Link to datasheet	Axicom REED DIP/SIL	<u>TSC</u>	<u>OUAZ/T81</u>

1) Recommended minimum load indication for contact material: AU and gold plated: ImA 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 HF3

Very small design

High performance RF relay/switch for up to 3GHz Low power consumption ≤70/140 mW 50 and 75 Ω version

Axicom HF3S

High performance RF relay/switch for High performance RF relay/switch for up to 3GHz Low power consumption $\leq 70/140$ mW Low power consumption $\leq 70/140$ mW 50 and 75 Ω version RF power 100W at 2GHz Very small design

Axicom HF6

up to 6GHz 50Ω version Very small design

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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 ATE Satellite/audio/video tuners	Measurement and test equipment ATE Wireless base stations and antennas Wireless infrastructure
Contact Data			
Contact arrangement Rated voltage Rated current Switching power / Max. break Min. recommended contact load Initial contact resistance	1 form C, 1 CO Bridge contacts 250VAC/220VDC 2A 60W/62.5VA/50W (2.5GHz) 100μV/1μA <100mQ	1 form C, 1 CO Bridge contacts 250VAC/220VDC 2A 60W/62.5VA/50W (2.5GHz) 100µV/1µA <100m0	1 form C, 1 CO Bridge contacts 250VAC/220VDC 2A 60W/62.5VA/50W (2.5GHz) 100µV/1µA <100mQ
Coil Data		10011122	
Magnetic system Rated coil voltage Rated coil power DC coil/bistable 1 coil/2 coils	Polarized 3 to 24VDC 140mW/70mW/140mW	Polarized 3 to 24VDC 140mW/70mW/140mW	Polarized 3 to 24VDC 140mW/70mW/140mW
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	600Vrms 1000Vrms 1000Vp	600Vrms 1000Vrms	600Vrms 1000Vrms 1000Vp
between adjacent contacts 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 Insertion loss Voltage standing wave ratio (VSWR)	-80/-72/-DB45 -0.03/0.12/-0.35dB 1.05/1.15/1.20	-95/-80/-55dB -0.03/-0.12/-0.30dB 1.05/1.10/1.25	-80/-60/-30dB -0.05/-0.15/-0.80dB 1.05/1.10/1.40
Other Data			
Ambient temperature (max.) Category of environmental protection Terminal type Dimension (lwh)	-55 to +85°C IP67/RTIII SMT 14.6x7.2x10mm	-55 to +85°C IP67/RTIII SMT 15x7.6x10.6mm	-55 to +85°C IP67/RTIII SMT 15x7.6x10.6mm

1) Recommended minimum load indication for contact material: AU and gold plated: ImA 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 HF3S



Link to datasheet

Axicom HF3

Axicom HF6

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 <u>TE.com</u> for more information	PCB mount not applicable. Visit <u>TE.com</u> for more information	PCB mount not applicable. Visit <u>TE.com</u> for more information
Typical Applications	Industrial machinery	Industrial machinery	Industrial machinery
	HVAC	HVAC	HVAC
	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; AgNi015 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 Narrow 22.5mm design 1500VDC optical isolation Cover design with anti-rotation barriers 1 Form A (SPST-NO)

Potter & Brumfield SSRK

10-30A DIN mount Solid State Relay with integrated heat sink 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 <u>TE.com</u> for more information	PCB mount not applicable. Visit <u>TE.com</u> for more information	PCB mount not applicable. Visit <u>TE.com</u> for more information
Typical Applications	Material handling	Industrial machinery	Industrial machinery
	Trains	HVAC	HVAC
	Construction equipment	Building controls	Building controls
Output Data			
Load Voltage	200VDC	24 - 280VAC/48 - 660VAC	48 - 660VAC
Repetitive Blocking Voltage	NA	600VAC/1200VAC	1200VAC
Load Current Range	10 A/25 A/40 A	10A/20A/30A	45A/55A/65A
Leakage Current (Off-State)	12mA	5mA	1mA
On-State Voltage Drop (Max.)	2.83VDC	1.8V/1.6V	1.7V
Load Power Factor Rating	NA	0.5 - 1.0	0.5 - 1.0
Thermal Resistance, Junction to Case (R0J-C) (Max.)	0.7/0.7/0.5	-	-
Input Data (AC/DC)			
Control Voltage Range VIN	3 - 32VDC	90 - 280VAC/3 - 32VDC	90 - 140VAC/4 - 32VDC
Must Operate Voltage VIN(OP) (Min.)	3.5VDC	90VAC/3VDC	90VAC/3VDC
Must release Voltage VIN(REL) (Min.)	1VDC	10VAC/1VDC	10VAC/1VDC
Input Current	30mA	7.5mA - 16mA/18 - 30mA	15mA/14 - 30mA
Dielectric Strength			
Isolation:	1500VDC	4000Vrms	4000Vrms
Other Data			
Dimensions	45x57.8x43.4mm	22.5x82.3x111.5mm	22.5x76.2x109.2mm
Operating Temperature	-30 to +80°C	–30 to + 80°C	-40 to + 80°C
Mounting	Panel	Din Rail	Din Rail
UL File No	E29244	E29244	E29244
Link to datasheet	Potter & Brumfield SSRDC	Potter & Brumfield SSRK	Potter & Brumfield SSRM

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)

	Type Electronics ASSEMBLED SSRA-240D2 AC LOAD CONTROL ~ ~ ~	E type Electronics SSRC-24005 3-15ypc 2 -
Footprint 2) see footnote below	000 000 000 000 000 000 000 000	THE ACCOUNTING LOAD THE ACCOU
Typical Applications	Industrial machinery HVAC Building controls	Industrial machinery HVAC Building controls
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.) Input Data (AC/DC) Control Voltage Range VIN Must Operate Voltage VIN(OP) (Min.) Must release Voltage VIN(REL) (Min.) Input Current Dielectric Strength	12 - 280VAC 600VAC 2A 0.1mA 1.5V 0.5 - 1.0 - 4-10VDC 4VDC 1VDC 15mA	12 - 280VAC/48 - 660VAC 600VAC/1200VAC 5A 0.1mA 1.4V 0.5 - 1.0 - 3 - 15VDC 4VDC 1VDC 15mA
Isolation:	2500Vrms	4000Vrms
Other Data		
Dimensions Operating Temperature Mounting UL File No	24.1x5.1x12.7mm -30 to + 80°C PCB E29244	43.1x7.6x25.4mm -30 to + 80°C PCB E29244
Link to datasheet	Potter & Brumfield SSRA	Potter & Brumfield SSRC



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		ACM THE STREET
2) see footnote below		
Typical Applications	Industrial machinery HVAC Building controls	Industrial machinery HVAC Building controls
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.) Input Data (AC/DC) Control Voltage Range VIN Must Operate Voltage VIN(OP) (Min.) Must release Voltage VIN(REL) (Min.) Input Current Dialo strie Stremeth	12 - 280VAC/48 - 660VAC 600VAC/1200VAC 10A (CC)/25A (FAC) 0.1mA 1.6V 0.5 - 1.0 - 3 - 15VDC 4VDC 1VDC 15mA	30VDC - 50mA 10uA 0.2VDC - - - 24VAC/120VAC/240VAC 18VAC/90VAC/280VAC 10VAC/60VAC/60VAC 1-5mA
Dielectric Strength	40001/	40001/
Isolation:	4000Vrms	4000Vrms
Uther Data		
Dimensions Operating Temperature Mounting UL File No	43.1x22.8x34.3mm -30 to + 80°C PCB E29244	43.5x10.3x25.5mm -30 to 100°C PCB E29244
Link to datasheet	Potter & Brumfield SSRF	Potter & Brumfield IACM



Key	Features
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Footprint 2) see footnote below

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)



	—		
Typical Applications	Industrial machinery HVAC	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 (RUJ-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



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 <u>**TE.com**</u> 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

Link to datasheet	Potter & Brumfield W28	Potter & Brumfield W23/W31
Accessories	Protective boot, push-on lockwasher	Hex nut, lockwasher, knurl nut
Reset Time	180 seconds max. for 0.25 through 2 amp models. 5 to 30 seconds for 3 through 20 amp models.	
Resetable Overload Capacity	Six times rated current for 0.25 through 2 amp models. Ten times rated current for 3 through 20 amp models.	Ten times rated current.
	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.	Continuously carry 100% of rating, may trip between 101% and 134% of rating at 25°C. Must trip at 135% in one hour.
Calibration	Will continuously carry 100% of rating. 3-20 amp	 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 10-20 amp models – 2000 amps at 120VAC
Interrupt capacity	1,000 amps at 250VAC, 50/60 Hz. and 32VDC in	With 4X Max. Series Fuse Protection
Rated current	0.5A to 20A	1A to 50A
Max Operating Voltages	32VDC 250VAC, 50/60Hz	50VDC 240VAC to (400Hz)
Insulation Resistance	ISOOVrms	ISOOVrms
	15001/000-	15.0.0) /
Electrical Data	55.0 × 15.5 × 15.711111	+0.077.5755.2000
Dimension I *W*H	$790 \times 159 \times 137 \text{mm}$	40 6x17 5x35 2mm
Mounting Manual operation Actuator	Snap-In Bush-to-rosot	Inru-noie 3/8"-24 threaded bushing
lerminal type	Standard quick connect .250in x .032in	#8-32 SCREW
Ambient temperature (max.)	-20 to $+60$ °C.	-20 to +65°C
Circuit function	Series trip	Series trip
Number of Poles		1
iype		merma



Potter & Brumfield W33

PCB mount not applicable.

Visit **TE.com** for more information

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

Thermal overload/trip free Operation Thermal overload/trip free operation 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



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

threaded bushing

31.0 x 14.6 x 35.0mm (W54) 22.6 x 14.6 x 29.2mm (W57)

Push-to-reset

Typical applications	Generators, General Aviation, Medical, Marine	Generators, General Aviation, Medical, Marine	Generators, general aviation, medical, marine
	Power Supplies, Lighting, Surge Protection	Power Supplies, Lighting, Surge Protection	Power supplies, lighting, surge protection
	Audio, pool and spa, appliances, Industrial controls	Audio, pool and spa, appliances, Industrial controls	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 .032in and solder option	Standard quick connect 250inx.032in/solder option/PCB	Standard quick connect 250inx.032in and #8-32 screw
Mounting	Snap-in	Snap-in, PCB	3/8"-24, M11-1.0, M12-1.0

Rocker

21.8 x 15.2 x 32.0mm

Manual operation Actuator **Dimension L*W*H**

Electrical Data

Dielectric strength	2000Vrms	1500VAC	1500VAC
Insulation Resistance		100M Ω	100MΩ
Max Operating Voltages	50VDC 250VAC	50VDC 125/250VAC (model dependent)	50VDC 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
Calibration	Will continuously carry 100% of rating. May trip between 101% and 134%, but must trip at 135% of rating within one hour at +25°C 150% for 5-8A models	Will continuously carry 100% of rating. May trip between 101% and 134%, but must trip at 135% of rating within one hour at +25°C. 150% for 5-8A models	Will continuously carry 100% of rating. May trip between 101% and 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 Endurance Cycling: Typically 6,000 operations at 100% of rating	Ten times rated current.
Reset Time		60 Seconds	60 Seconds
Accessories			Protective boot, knurl nut, hex nut, lockwasher, nameplate
Link to datasheet	Potter & Brumfield W33	Potter & Brumfield W51	Potter & Brumfield W54

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.

Rocker

43.8 x 24.9 x 48.0mm



Potter & Brumfield W57

Thermal overload/trip free operation Push to reset Compact design Cannot be manually tripped PCB termination options UL 1077, UL 1500, cUL, VDE, CCC. (3A,4A,20A no VDE)

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

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



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

HVAC (transformers), general

Audio, pool and spa, appliances,

aviation, medical, marine Power supplies, lighting,

surge protection

Industrial controls

Applications

Operational Data

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

Generators, general aviation,

Type Magnetic/hydraulic Thermal Thermal Number of Poles 1-4 1 1 **Circuit function** Series trip Series trip Series trip Ambient temperature (max.) 0 to 60°C -25 to 65°C -40 to +85 °C Standard quick connect W6-Standard Quick Connect Terminal type 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) 22.6 x 14.6 x 29.2mm (W57) 46.9 x 19.0 x 63.5mm (W9 per pole)

Electrical Data

Dielectric strength	1500VAC	1500Vrms	50/60 Hz, 1,500V: DC, 1100V
Max Operating Voltages	50VDC. 250VAC 50/60 Hz	50VDC. 250VAC	65VDC. 277VAC. 480VAC - 3Ø wye
Rated current	3A to 20A	0.5A to 30A	0.20A to 50A
Interrupt capacity	1000 amps in accordance with UL standard 1077	2000 amps at 50VDC (0.5 - 30 amp models) 1000 amps at 250VAC (0.5 - 30amp models). Note: 30 amp model not UL or CSA	up to 5000A with UL 1077, CSA, VDE. Up to 3000A for UL 1500
Calibration	Will continuously carry 100% of rating. May trip between 101% and 134%, but must trip at 135% of rating within one hour at +25°C	Breaker will continuously carry 100% of rated load. It may trip between 101% and 145% of rated load, but must trip at 145% at 25°C	Breakers will hold 100% rated current. May trip between 101% and 124% rated load (134% for AC/DC units) Must trip at 125% rated load (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
Accessories	Protective boot, knurl nut, hex nut, lockwasher, nameplate	Protective boot, knurl nut, hex nut, lockwasher	Toggle guard (W6 only)
Link to datasheet	Potter & Brumfield W57	Potter & Brumfield W58	Potter & Brumfield W6/W9

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.



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



Visit **TE.com** for more information

4000 SERIES QUICK CONNECT CLASS II CONTROL TRANSFORMERS

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



Visit **TE.com** for more information

Typical Applications	HVAC	HVAC
	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
		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	QUICK CONNECT CLASS II
	CONTROL TRANSFORMERS	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



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Applications	HVAC	Industrial controls, garage door openers
	Industrial	small power supplies, control boards
	Motor control	lighting/monitoring controls, vending
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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