

T9AS1D12-15

✓ ACTIVE

Potter & Brumfield | Potter & Brumfield T9A

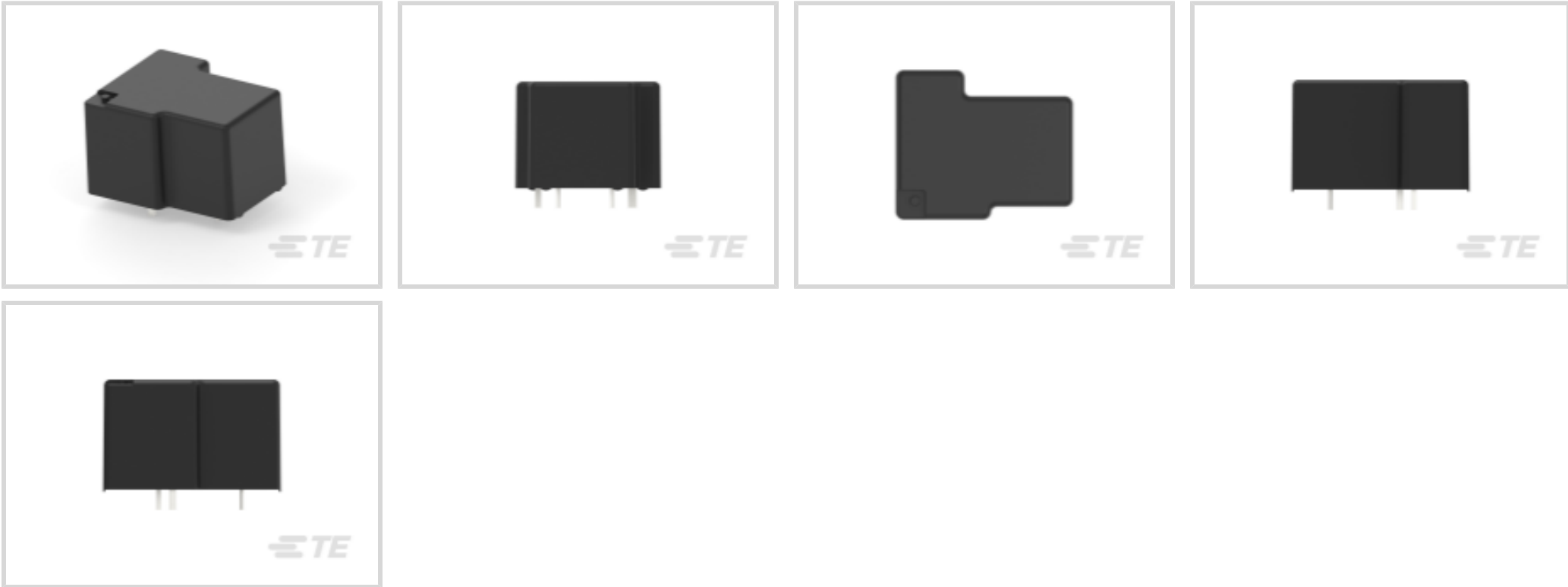
TE Internal #: 1-1393210-4

Power Relays, Standard, Monostable, DC, 1000 mW Coil Power  
Rating DC, 225 Ω Coil Resistance, UL Coil Insulation Class F, Potter  
& Brumfield T9A

[View on TE.com >](#)



Relays & Contactors > Relays > Power Relays > PCB Power Relay: 30 Amp, Monostable DC



Relay Type: **Standard**  
Coil Magnetic System: **Monostable, DC**  
Coil Power Rating DC: **1000 mW**  
Coil Resistance: **225 Ω**  
Coil Special Features: **UL Coil Insulation Class F**  
[All PCB Power Relay: 30 Amp, Monostable DC \(67\)](#)

Features

Product Type Features

|            |          |
|------------|----------|
| Relay Type | Standard |
|------------|----------|

Configuration Features

|                             |                                                               |
|-----------------------------|---------------------------------------------------------------|
| Insulation Special Features | 6000V Initial Surge Withstand Voltage between Contacts & Coil |
| Coil Special Features       | UL Coil Insulation Class F                                    |
| Contact Arrangement         | 1 Form A (NO)                                                 |
| Contact Number of Poles     | 1                                                             |

Electrical Characteristics

|                                                     |             |
|-----------------------------------------------------|-------------|
| Output Current Rating                               | 0 - 30 Arms |
| Coil Current                                        | .067 A      |
| Insulation Initial Dielectric Between Open Contacts | 1500 Vrms   |
| Contact Limiting Short-Time Current                 | 30 A        |
| Coil Power Rating                                   | 1 W         |



|                                                         |              |
|---------------------------------------------------------|--------------|
| Insulation Initial Dielectric Between Adjacent Contacts | 1500 Vrms    |
| Insulation Initial Resistance                           | 1000 MΩ      |
| Insulation Initial Dielectric Between Contacts & Coil   | 2500 Vrms    |
| Output Voltage (Max)                                    | 240 V        |
| Contact Limiting Making Current                         | 30 A         |
| Contact Limiting Continuous Current                     | 30 A         |
| Output Voltage Rating (AC Relays)                       | 0 - 240 Vrms |
| Output Current (Min)                                    | 1 A          |
| Contact Limiting Breaking Current                       | 30 A         |
| Coil Power Rating DC                                    | 1000 mW      |
| Coil Resistance                                         | 225 Ω        |
| Coil Voltage Rating                                     | 15 VDC       |
| Contact Current Rating                                  | 30 A         |
| Contact Switching Load (Min)                            | 1000mA @ 5V  |
| Contact Switching Voltage (Max)                         | 277 VAC      |
| Contact Voltage Rating                                  | 277 VAC      |

Body Features

|                       |               |
|-----------------------|---------------|
| Enclosure Type        | Sealed        |
| Primary Product Color | Black         |
| Product Weight        | 26 g[.918 oz] |

Contact Features

|                          |       |
|--------------------------|-------|
| Contact Plating Material | AgCdO |
| Contact Material         | AgCdO |

Termination Features

|                        |                 |
|------------------------|-----------------|
| Relay Connection Type  | PCB Termination |
| Terminal Configuration | Solder Pins     |

Mechanical Attachment

|                    |                       |
|--------------------|-----------------------|
| Product Mount Type | Printed Circuit Board |
|--------------------|-----------------------|

Dimensions

|                                             |                   |
|---------------------------------------------|-------------------|
| Insulation Clearance Between Contact & Coil | 3.18 mm[.125 in]  |
| Insulation Creepage Between Contact & Coil  | 6.36 mm[.25 in]   |
| Product Width                               | 27.43 mm[1.08 in] |



|                |                   |
|----------------|-------------------|
| Product Length | 32.51 mm[1.28 in] |
| Product Height | 20.4 mm[.803 in]  |

Usage Conditions

|                                         |                           |
|-----------------------------------------|---------------------------|
| Environmental Ambient Temperature (Max) | 85 °C[185 °F]             |
| Operating Temperature Range             | -55 - 85 °C[-67 - 185 °F] |

Operation/Application

|                      |                |
|----------------------|----------------|
| Actuating System     | DC             |
| Solder Process       | Wave Solder    |
| Output Switching     | Random         |
| Output Current Type  | AC             |
| Coil Magnetic System | Monostable, DC |

Packaging Features

|                  |                    |
|------------------|--------------------|
| Packaging Method | Box & Tray, Bundle |
|------------------|--------------------|

Other

|                                                            |               |
|------------------------------------------------------------|---------------|
| Length Class (Mechanical)                                  | 30 - 35 mm    |
| Insulation Initial Dielectric Between Coil & Contact Class | 1500 - 2500 V |
| Insulation Creepage Class                                  | 5.5 - 8 mm    |
| Height Class (Mechanical)                                  | 25 - 30 mm    |
| Coil Power Rating Class                                    | 800 - 1000 mW |
| Environmental Ambient Temperature Class                    | 70 - 85 °C    |
| Insulation Clearance Class                                 | 2.5 - 4 mm    |
| Width Class (Mechanical)                                   | 25 - 30 mm    |
| Contact Current Class                                      | 16 A          |

Product Compliance

For compliance documentation, visit the product page on TE.com>

|                                               |                                                                                                                      |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Compliant with Exemptions                                                                                            |
| EU ELV Directive 2000/53/EC                   | Compliant                                                                                                            |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold                                                                                 |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JAN 2024 (240)<br>Candidate List Declared Against: JUNE 2023 (235)<br>SVHC > Threshold: |





Cadmium oxide (3.18% in component part)

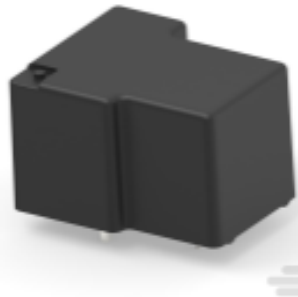
**Article Safe Usage Statements:**  
Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.

|                           |                                                |
|---------------------------|------------------------------------------------|
| Halogen Content           | Not Low Halogen - contains Br or Cl > 900 ppm. |
| Solder Process Capability | Wave solder capable to 260°C                   |

Product Compliance Disclaimer

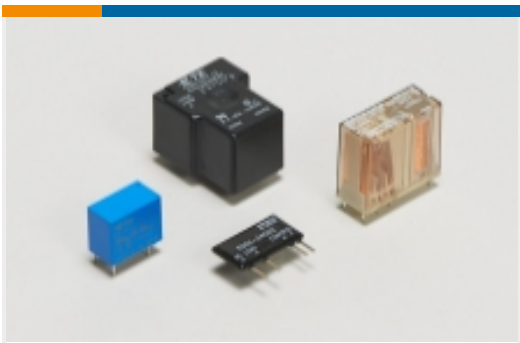
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts



TE Part # 1-1393210-3  
T9AS1D12-12

Also in the Series | Potter & Brumfield T9A



Power Relays(67)

Customers Also Bought



TE Part # 2-179276-2  
DYNAMIC 3200 HDR ASSY 2P H

TE Part # 1-1423008-8  
T92S7D14-24

TE Part # 3-647167-2  
02P MTA100 HDR ASSY SM 15AU LF

TE Part # 1558661-3  
T9GV1L14-12

TE Part # 9-1879208-6  
CPF 0402 91K 0.1% 25PPM 1K RL

TE Part # 4-1624113-6  
3650 0805 0.10uH 5% 2K RL

TE Part # T4144035051-000  
M12 R/A M PNL REAR A-CODE 5P  
PCBSTD SHLD

TE Part # 1-1423008-6  
T92S7D14-12

TE Part # 2176468-2  
TLRP 2010 1.0W R020 1% 75PPM 4K RL

Documents

CAD Files

Customer View Model

ENG\_CVM\_CVM\_1-1393210-4\_K1.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1393210-4\_K1.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1393210-4\_K1.3d\_igs.zip

English

3D PDF

3D

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

T9A Relay Datasheet

English

Product Specifications



Definitions General Purpose Relays

English

Agency Approvals

Agency Approval Document

English