

# T9AV1D12-12 ✓ ACTIVE

Potter & Brumfield | Potter & Brumfield T9A

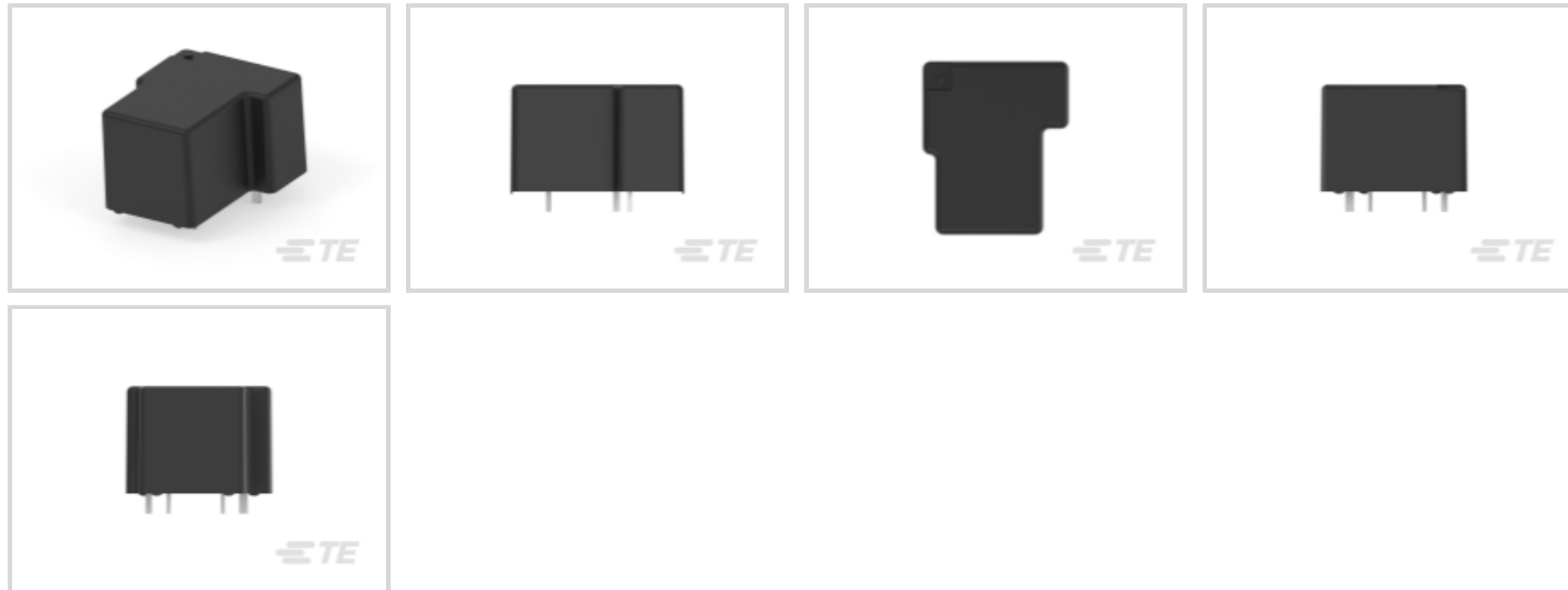
TE Internal #: 4-1393210-3

Power Relays, Standard, Monostable, DC, 1000 mW Coil Power Rating DC, 144  $\Omega$  Coil Resistance, UL Coil Insulation Class F, Potter & Brumfield T9A

[View on TE.com >](#)



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



Power Relay Type: **Standard**

Coil Magnetic System: **Monostable, DC**

Coil Power Rating Class: **800 – 1000 mW**

Coil Power Rating DC: **1000 mW**

Coil Resistance: **144  $\Omega$**

[All PCB Power Relay: 30 Amp, Monostable DC \(67\)](#)

## Features

### Product Type Features

Power Relay Type	Standard
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### Electrical Characteristics

Insulation Initial Dielectric Between Coil & Contact Class	1500 – 2500 V
Insulation Initial Dielectric Between Open Contacts	1500 Vrms
Contact Limiting Making Current	30 A
Contact Limiting Short-Time Current	30 A
Contact Limiting Continuous Current	30 A
Insulation Creepage Class	5.5 – 8 mm
Insulation Initial Dielectric Between Contacts & Coil	2500 Vrms
Insulation Initial Resistance	1000 M $\Omega$
Insulation Creepage Between Contact & Coil	6.36 mm[.25 in]
Contact Limiting Breaking Current	30 A
Coil Magnetic System	Monostable, DC

Coil Power Rating Class	800 – 1000 mW
Coil Power Rating DC	1000 mW
Coil Resistance	144 $\Omega$
Coil Special Features	UL Coil Insulation Class F
Coil Voltage Rating	12 VDC
Contact Switching Load (Min)	1000mA @ 5V
Contact Switching Voltage (Max)	277 VAC
Contact Voltage Rating	277 VAC

### Body Features

Insulation Special Features	6000V Initial Surge Withstand Voltage between Contacts & Coil
Product Weight	26 g[.918 oz]

### Contact Features

Contact Arrangement	1 Form A (NO)
Contact Current Class	16 A, 20 – 30 A
Contact Current Rating (Max)	30 A
Contact Material	AgCdO
Contact Number of Poles	1
Relay Terminal Type	PCB-THT

### Mechanical Attachment

Relay Mounting Type	Printed Circuit Board
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### Dimensions

Length Class (Mechanical)	30 – 35 mm
Insulation Clearance Class	2.5 – 4 mm
Height Class (Mechanical)	20 – 25 mm
Insulation Clearance Between Contact & Coil	3.18 mm[.125 in]
Width Class (Mechanical)	25 – 30 mm
Product Width	27.4 mm[1.079 in]
Product Length	32.5 mm[1.281 in]
Product Height	20.4 mm[.803 in]

### Usage Conditions

Environmental Ambient Temperature Class	70 – 85 $^{\circ}$ C
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Environmental Ambient Temperature (Max)

85 °C[185 °F]

### Packaging Features

Packaging Method

Box &amp; Tray, Bundle

### Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.te.com)>

EU RoHS Directive 2011/65/EU

Compliant with Exemptions

EU ELV Directive 2000/53/EC

Not 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: JUNE 2022 (224)

Candidate List Declared Against: JUNE 2022 (224)

SVHC &gt; Threshold:

Cadmium oxide (3.18% in Component)

**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 &gt; 900 ppm.

Solder Process Capability

Wave solder capable to 260°C

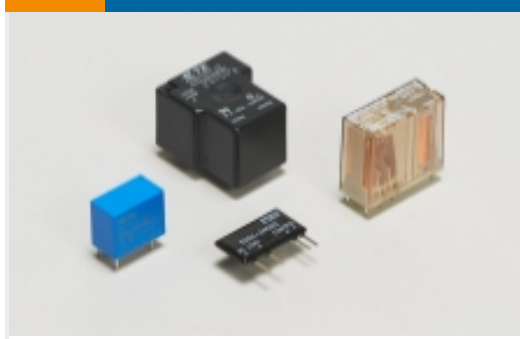
#### Product Compliance Disclaimer

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



## Also in the Series | Potter & Brumfield T9A



Power Relays(67)

### Documents

#### CAD Files

[3D PDF](#)

[3D](#)

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_4-1393210-3\\_L.2d\\_dxf.zip](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_4-1393210-3\\_L.3d\\_igs.zip](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_4-1393210-3\\_L.3d\\_stp.zip](#)

English

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, Handling, Processing, Testing and Use of Relays](#)

English