



Potter & Brumfield | Potter & Brumfield T9A

TE Internal #: 6-1419102-4

Power Relays, Standard, Monostable, DC, 1000 mW Coil Power Rating DC, 2304 Ω 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: **2304 Ω**

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

Features

Product Type Features

| | |
|------------------|--------------------|
| Enclosure Type | Plastic Dust Cover |
| Output Type | AC |
| Power Relay Type | Standard |

Configuration Features

| | |
|------------------|--------|
| Output Switching | Random |
|------------------|--------|

Electrical Characteristics

| | |
|--|--------------------------|
| Insulation Initial Dielectric Between Coil & Contact Class | 1500 – 2500 V |
| Output Current Rating | 0 – 10 Arms, 0 – 20 Arms |
| Actuating System | DC |
| Insulation Initial Dielectric Between Open Contacts | 1500 Vrms |
| Contact Limiting Short-Time Current | 20 A |
| Coil Power Rating | 1 W |



| | |
|---|----------------------------|
| Insulation Creepage Class | 5.5 – 8 mm |
| Insulation Initial Dielectric Between Adjacent Contacts | 1500 Vrms |
| Insulation Initial Resistance | 1000 M Ω |
| Insulation Initial Dielectric Between Contacts & Coil | 2500 Vrms |
| Output Voltage (Max) | 240 V |
| Contact Limiting Making Current | 20 A |
| Insulation Creepage Between Contact & Coil | 6.36 mm [.25 in] |
| Contact Limiting Continuous Current | 20 A |
| Output Voltage Rating (AC Relays) | 0 – 240 Vrms |
| Output Current (Min) | 1 A |
| Contact Limiting Breaking Current | 20 A |
| Coil Current | .021 A |
| Coil Magnetic System | Monostable, DC |
| Coil Power Rating Class | 800 – 1000 mW |
| Coil Power Rating DC | 1000 mW |
| Coil Resistance | 2304 Ω |
| Coil Special Features | UL Coil Insulation Class F |
| Coil Voltage Rating | 48 VDC |
| Contact Switching Load (Min) | 1000mA @ 5V |
| Contact Switching Voltage (Max) | 277 VAC |
| Contact Voltage Rating | 277 VAC |

Body Features

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|-----------------------------|---|
| Insulation Special Features | 6000V Initial Surge Withstand Voltage between Contacts & Coil |
| Product Weight | 33 g [1.164 oz] |
| Packaging Style | Panel Mount |
| Case Color | Black |

Contact Features

| | |
|------------------------------|-----------------|
| Contact Plating Material | AgCdO |
| Switch Arrangement | (2) x 1 Form C |
| Contact Arrangement | 1 Form C (CO) |
| Contact Current Class | 10 – 20 A, 16 A |
| Contact Current Rating (Max) | 20 A |



| | |
|-------------------------|---------------|
| Contact Material | AgCdO |
| Contact Number of Poles | 1 |
| Relay Terminal Type | Quick Connect |

Termination Features

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|------------------------|---------------------------|
| Relay Termination Type | Printed Circuit Terminals |
|------------------------|---------------------------|

Mechanical Attachment

| | |
|---------------------|---------------------------|
| Relay Mounting Type | Flange Mount, Panel Mount |
|---------------------|---------------------------|

Dimensions

| | |
|---|-------------------|
| Length Class (Mechanical) | 30 – 35 mm |
| Height Class (Mechanical) | 25 – 30 mm |
| Insulation Clearance Between Contact & Coil | 3.18 mm[.125 in] |
| Insulation Clearance Class | 2.5 – 4 mm |
| Width Class (Mechanical) | 25 – 30 mm |
| Product Width | 27.4 mm[1.079 in] |
| Product Length | 32.5 mm[1.281 in] |
| Product Height | 27.9 mm[1.098 in] |

Usage Conditions

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|---|---------------------------|
| Environmental Ambient Temperature (Max) | 85 °C[185 °F] |
| Environmental Ambient Temperature Class | 70 – 85 °C |
| Operating Temperature Range | -55 – 85 °C[-67 – 185 °F] |

Packaging Features

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|------------------|--------|
| Packaging Method | Bundle |
|------------------|--------|

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: JUNE 2022 (224) Candidate List Declared Against: JUL 2021 (219) SVHC > Threshold: Cadmium oxide (10% in contact) <small>Article Safe Usage Statements:</small> |



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 # 5-1419102-4
T9AP5D52-12



TE Part # 63306-2
250 FASTON REC 18-14 AWG TPBR




TE Part # 63435-1
250 FASTON REC 14-10 AWG SPBR



TE Part # 2238209-3
250 FASTON, FLAG, REC., 22-12 AWG, PTBR

Also in the Series | Potter & Brumfield T9A



Power Relays(67)

Documents

[CAD Files](#)

[3D PDF](#)

[3D](#)

[Customer View Model](#)

[ENG_CVM_CVM_6-1419102-4_K.2d_dxf.zip](#)



English

Customer View Model

[ENG_CVM_CVM_6-1419102-4_K.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6-1419102-4_K.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