T9AS1D12-110 ✓ ACTIVE

Potter & Brumfield | Potter & Brumfield T9A

TE Internal #: 1-1393210-2

Power Relays, Standard, Monostable, DC, 1000 mW Coil Power Rating DC, 12100 Ω Coil Resistance, UL Coil Insulation Class F,

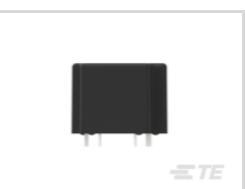
Potter & Brumfield T9A

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: 12100 Ω

Coil Special Features: UL Coil Insulation Class F

All PCB Power Relay: 30 Amp, Monostable DC (67)

Features

Product Type Features

Enclosure Type	Sealed
Output Current Type	AC
Relay Type	Standard

Configuration Features

Electrical Characteristics

Insulation Initial Dielectric Between Coil & Contact Class	1500 – 2500 V
Output Current Rating	0 – 30 Arms
Coil Current	.009 A
Actuating System	DC
Insulation Initial Dielectric Between Open Contacts	1500 Vrms
Contact Limiting Short-Time Current	30 A



Insulation Special Features 6000V Initial Surge Withstand Voltage between Contacts & Coil Packaging Style Panel Mount Primary Product Color Black Product Weight 26 g[.918 oz]	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 I Initing Making Current 30 A Insulation Creepage Between Contact & Coil 6.36 mml.25 inl Contact Limiting Continuous Current 30 A Output Voltage Rating (Mc Relays) 0 – 240 Vrms Output Current (Min) 1 Λ Contact Limiting Breaking Current 30 A Coll Magnetic System Monostable, DC Coll Power Rating DC 1000 mW Coil Resistance 12100 Ω Coil Special Features UI Coil Insulation Class F Coil Voltage Rating 110 VDC Contact Switching Load (Min) 1000mA @ 5V Contact Switching Voltage (Max) 277 VAC Contact Voltage Rating 2000V Initial Surge Withstand Voltage between Contacts & Coil Packaging Style Panel Mount Primary Product Color Black Primary Product Color Black Primary Product Weight 26 (2) (Insulation Creepage Class	5.5 – 8 mm
Insulation Initial Resistance 1000 MΩ Insulation Initial Dielectric Between Contacts & Coil 2500 Vrms Output Voltage (Max) 240 V Contact Limiting Making Current 30 A Insulation Creepage Between Contact & Coil 6.36 mm (25 in) 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 Magnetic System Monostable, DC Coil Power Rating DC 1000 mW Coil Resistance 12100 O Coil Special Features UL Coil Insulation Class F Coil Voltage Rating 110 VDC Contact Switching Load (Min) 1000mA @ 5V Contact Switching Voltage (Max) 277 VAC Socy Features 2000 Initial Surge Withstand Voltage between Contacts & Coil Packaging Style Panel Mount Primary Product Color Black Product Weight 26 gl.918 oz] Contact Plating Material AgCdO Contact Arrangement 1 Form A (NO) Contac	Coil Power Rating Class	800 – 1000 mW
Output Voltage (Max) Contact I imiting Making Current Contact Limiting Making Current Contact Limiting Continuous Current Contact Limiting Continuous Current Contact Limiting Continuous Current Contact Limiting Continuous Current Contact Limiting Beaking (AC Relays) O – 240 Vrms Output Voltage Rating (AC Relays) O – 240 Vrms Output Current (Min) 1 A Contact Limiting Breaking Current 30 A Coil Magnetic System Monostable, DC Coil Power Rating DC Coil Power Rating DC Coil Special Features UL Coil Insulation Class F Coil Voltage Rating Contact Switching Load (Min) Contact Switching Load (Min) Contact Switching Voltage (Max) Contact Voltage Rating ACCO Contact Voltage Rating Contact Voltage Rating Contact Patures Contact Patures Contact Patures Contact Patures Contact Patures Contact Patures Contact Current Class 1 Form A (NO)	Insulation Initial Dielectric Between Adjacent Contacts	1500 Vrms
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Insulation Creepage Between Contact & Coil Contact Limiting Continuous Current 30 A Output Voltage Rating (AC Relays) Output Current (Min) 1 A Contact Limiting Breaking Current 30 A Coil Magnetic System Monostable, DC Coil Power Rating DC Coil Power Rating DC Coil Special Features UL Coil Insulation Class F Coil Voltage Rating 110 VDC Contact Switching Load (Min) 1000mA & 5V Contact Switching Voltage (Max) Contact Voltage Rating Try VAC Sody Features Insulation Special Features Coil Special Features Accordance Contact Voltage Rating Contact Voltage Rating Relating Rela	Output Voltage (Max)	240 V
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Contact Limiting Breaking Current30 ACoil Magnetic SystemMonostable, DCCoil Power Rating DC1000 mWCoil Resistance12100 ΩCoil Special FeaturesUL Coil Insulation Class FCoil Voltage Rating110 VDCContact Switching Load (Min)1000mA @ 5VContact Switching Voltage (Max)277 VACContact Voltage Rating277 VACBody Features6000V Initial Surge Withstand Voltage between Contacts & CoilPackaging StylePanel MountPrimary Product ColorBlackProduct Weight26 gl.918 oz]Contact FeaturesContact Flating MaterialAgCdOContact Arrangement1 Form A (NO)Contact Current Class16 A	Output Voltage Rating (AC Relays)	0 – 240 Vrms
Coil Magnetic SystemMonostable, DCCoil Power Rating DC1000 mWCoil Resistance12100 ΩCoil Special FeaturesUL Coil Insulation Class FCoil Voltage Rating110 VDCContact Switching Load (Min)1000mA @ 5VContact Switching Voltage (Max)277 VACContact Voltage Rating277 VACBody Features6000V Initial Surge Withstand Voltage between Contacts & CoilPackaging StylePanel MountPrimary Product ColorBlackProduct Weight26 gl.918 ozlContact Plating MaterialAgCdOContact Arrangement1 Form A (NO)Contact Current Class16 A	Output Current (Min)	1 A
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Coil Special Features Coil Voltage Rating Contact Switching Load (Min) Contact Switching Voltage (Max) Contact Switching Voltage (Max) Contact Voltage Rating Body Features Insulation Special Features Insulation Special Features Ackaging Style Panel Mount Primary Product Color Product Weight Contact Features Contact Plating Material AgCdO Contact Arrangement Contact Current Class UL Coil Insulation Class F 1000mA @ 5V 277 VAC 277 VAC 277 VAC 6000V Initial Surge Withstand Voltage between Contacts & Coil Panel Mount Primary Product Color Black 26 g[.918 oz] Contact Features Contact Current Class	Coil Power Rating DC	1000 mW
Coil Voltage Rating 110 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 Packaging Style Panel Mount Primary Product Color Black Product Weight 26 g[.918 oz] Contact Plating Material AgCdO Contact Arrangement 1 Form A (NO) Contact Current Class	Coil Resistance	12100 Ω
Contact Switching Load (Min) Contact Switching Voltage (Max) Contact Voltage Rating 277 VAC 277 VAC Body Features Insulation Special Features 6000V Initial Surge Withstand Voltage between Contacts & Coil Packaging Style Panel Mount Primary Product Color Black Product Weight Contact Features Contact Plating Material AgCdO Contact Arrangement 1 Form A (NO) Contact Current Class	Coil Special Features	UL Coil Insulation Class F
Contact Switching Voltage (Max) Contact Voltage Rating Body Features Insulation Special Features 6000V Initial Surge Withstand Voltage between Contacts & Coil Packaging Style Panel Mount Primary Product Color Black Product Weight Contact Features Contact Plating Material AgCdO Contact Arrangement 1 Form A (NO) Contact Current Class	Coil Voltage Rating	110 VDC
Contact Voltage Rating Body Features Insulation Special Features 6000V Initial Surge Withstand Voltage between Contacts & Coil Packaging Style Panel Mount Primary Product Color Black Product Weight Contact Features Contact Plating Material AgCdO Contact Arrangement 1 Form A (NO) Contact Current Class	Contact Switching Load (Min)	1000mA @ 5V
Insulation Special Features 6000V Initial Surge Withstand Voltage between Contacts & Coil Packaging Style Panel Mount Primary Product Color Black Product Weight 26 g[.918 oz] Contact Features Contact Plating Material AgCdO Contact Arrangement 1 Form A (NO) Contact Current Class 16 A	Contact Switching Voltage (Max)	277 VAC
Insulation Special Features 6000V Initial Surge Withstand Voltage between Contacts & Coil Packaging Style Panel Mount Primary Product Color Black Product Weight 26 g[.918 oz] Contact Features Contact Plating Material AgCdO Contact Arrangement 1 Form A (NO) Contact Current Class	Contact Voltage Rating	277 VAC
Packaging Style Panel Mount Primary Product Color Black Product Weight Contact Features Contact Plating Material Contact Arrangement Contact Current Class between Contacts & Coil Panel Mount AgCd AgCdO 1 Form A (NO) 16 A	Body Features	
Primary Product Color Product Weight Contact Features Contact Plating Material Contact Arrangement Contact Current Class 16 A	Insulation Special Features	<u> </u>
Product Weight 26 g[.918 oz] Contact Features Contact Plating Material AgCdO Contact Arrangement 1 Form A (NO) Contact Current Class 16 A	Packaging Style	Panel Mount
Contact Features Contact Plating Material AgCdO Contact Arrangement 1 Form A (NO) Contact Current Class 16 A	Primary Product Color	Black
Contact Plating Material Contact Arrangement Contact Current Class AgCdO 1 Form A (NO) AgCdO 16 A	Product Weight	26 g[.918 oz]
Contact Arrangement 1 Form A (NO) Contact Current Class 16 A	Contact Features	
Contact Current Class 16 A	Contact Plating Material	AgCdO
	Contact Arrangement	1 Form A (NO)
Contact Current Rating 30 A	Contact Current Class	16 A
	Contact Current Rating	30 A

AgCdO

Contact Material



Contact Number of Poles

Termination Features

Relay Connection Type	PCB Termination
Terminal Configuration	Solder Pins

Mechanical Attachment

Product Mount Type	Printed Circuit Board	
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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	27.43 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]
Environmental Ambient Temperature Class	70 – 85 °C
Operating Temperature Range	-55 – 85 °C[-67 – 185 °F]

Packaging Features

Other

Solder Process	Wave Solder
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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) Candidate List Declared Against: JAN 2024 (240)



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

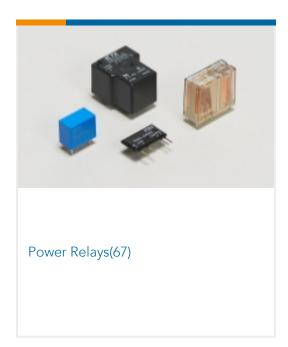
Product Compliance Disclaimer

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



Also in the Series | Potter & Brumfield T9A



Customers Also Bought





HFW1201G01M = M39016/6-116M





TE Part #2-1617072-7 3SBC1518A2 = M39016/13-057M





TE Part #2-1718806-1 5POS, MCON 1.2 LL REC SEALED TE Part #7-1423364-3 W57-XF6A4A10-10=CKTBKR,THERM, PB,QC.250



Documents

CAD Files

Customer View Model

ENG_CVM_CVM_1-1393210-2_K1.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_1-1393210-2_K1.3d_igs.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-1393210-2_K1.2d_dxf.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 General Purpose Relays

English

Agency Approvals

Agency Approval Document

English