

# T9W1K15-12S ✓ ACTIVE

Potter & Brumfield

TE Internal #: 2027395-5

General Purpose Power Relay, DC, Monostable, 1 Form A SPST-NO, 40 A Contact Rating, 12 VDC Coil Voltage, 277 VAC Contact Voltage

[View on TE.com >](#)



Relays & Contactors > Electromechanical Relays



Relay & Contactor Type: **General Purpose Power Relay**

Current Type: **DC**

Coil Magnetic System: **Monostable**

Contact Arrangement: **1 Form A SPST-NO**

Contact Current Rating: **40 A**

## Features

### Contact Features

Contact Material	AgNi90/10
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### Dimensions

Insulation Clearance Between Contact & Coil	3.5 mm[.138 in]
Insulation Creepage Between Contact & Coil	4 mm[.142 in]
Product Width	27.43 mm[1.08 in]
Product Length	32.51 mm[1.28 in]
Product Height	20.4 mm[.803 in]

### Packaging Features

Packaging Method	Tray
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### Other

Coil Power Rating Class	2 – 3 W[2 – 3 VA]
Contact Current Class	30 – 50 A
Environmental Ambient Temperature Class	70 – 85 °C
Height Class (Mechanical)	25 – 30 mm



Length Class (Mechanical)	30 – 35 mm
EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

### Usage Conditions

Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
Environmental Category of Protection	RTII
Environmental Ambient Temperature (Max)	85 °C[185 °F]

### Body Features

Product Weight	26.6 g[.939 oz]
Primary Product Color	Black
Enclosure Type	Flux Resistant Automatic Soldering

### Electrical Characteristics

Contact Limiting Making Current	40 A
Contact Limiting Continuous Current	40 A
Contact Limiting Breaking Current	40 A
Insulation Initial Dielectric Between Open Contacts	2500 Vrms
Insulation Initial Dielectric Between Adjacent Contacts	2500 Vrms
Coil Current	.188 A
Contact Switching Voltage (Max)	277 VAC
Contact Switching Load (Min)	1000mA @ 5V
Coil Resistance	64 Ω
Insulation Initial Resistance	1000 MΩ
Contact Current Rating	40 A
Coil Voltage Rating	12 VDC
Contact Voltage Rating	30 VDC
Coil Power Rating DC	2.25 W
Insulation Initial Dielectric Between Contacts & Coil	4000 Vrms

### Configuration Features

Contact Number of Poles	1
Coil Special Features	UL Coil Insulation Class F
Contact Arrangement	1 Form A SPST-NO

### Operation/Application



Solder Process	Wave Solder
Current Type	DC
Coil Magnetic System	Monostable

**Product Type Features**

Relay & Contactor Type	General Purpose Power Relay
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**Termination Features**

Main Termination & Connection Type	Solder Pins
Coil Termination & Connection Type	Solder Pins

**Mechanical Attachment**

Product Mount Type	Board Mount
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**Product Compliance**

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not reviewed for solder process capability

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**



### Customers Also Bought



### Documents

#### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_2027395-5\\_D.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2027395-5\\_D.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2027395-5\\_D.2d\\_dxf.zip](#)



English

[3D PDF](#)

[3D](#)

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

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### Datasheets & Catalog Pages

[Datasheet - Ev Charging Relays Contactors](#)

English

[Power PCB Relay T9V OBC](#)

English

[Power PCB Relay T9V Solar](#)

English

[Power PCB Relay T9V Solar](#)

English

[Power PCB Relay T9V OBC](#)

English

[P&B relay T9V series flyer](#)

English

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### Agency Approvals

[VDE Certificate](#)

English