T9VV1K15-12S ✔ ACTIVE

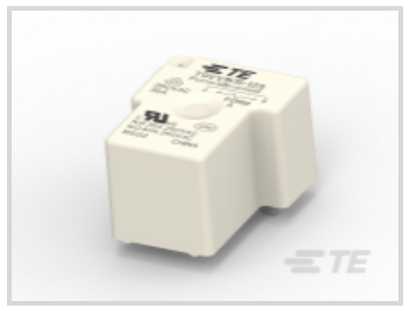
Potter & Brumfield

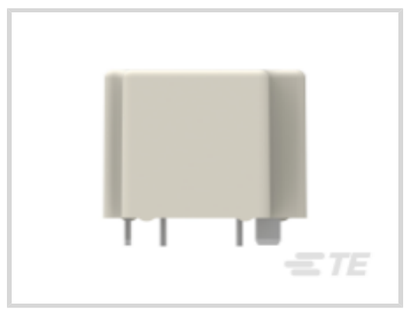
TE Internal #: 2027395-5

Power Relays, Standard, Monostable, DC, 2250 mW Coil Power Rating DC, 64 Ω Coil Resistance, UL Coil Insulation Class F, 12 VDC Coil Voltage

View on TE.com >

Relays, Contactors & Switches > Relays > Power Relays



Power Relay Type: **Standard**

Coil Magnetic System: **Monostable, DC**

Coil Power Rating Class: **2000 – 3000 mW [2 – 3 VA]**

Coil Power Rating DC: **2250 mW**

Coil Resistance: **64 Ω**

Features

Product Type Features

Enclosure Type	Sealed
Output Type	AC
Power Relay Type	Standard

Configuration Features

Output Switching	Random

Electrical Characteristics

Insulation Initial Dielectric Between Coil & Contact Class	2500 – 3000 V
Input Voltage Typical	0 – 6 VDC
Output Current Rating	0 – 26 Arms
Actuating System	DC
Insulation Initial Dielectric Between Open Contacts	2500 Vrms
Coil Power Rating	2.25 W
Insulation Creepage Class	3 – 5.5 mm
Insulation Initial Dielectric Between Adjacent Contacts	2500 Vrms

Insulation Initial Resistance	1000 MΩ
Insulation Initial Dielectric Between Contacts & Coil	4000 Vrms
Output Voltage (Max)	277 V
Contact Limiting Making Current	40 A
Insulation Creepage Between Contact & Coil	4 mm[.142 in]
Contact Limiting Continuous Current	40 A
Output Voltage Rating (AC Relays)	0 – 277 Vrms
Output Current (Min)	1 A
Contact Limiting Breaking Current	40 A
Coil Current	.188 A
Coil Magnetic System	Monostable, DC
Coil Power Rating Class	2000 – 3000 mW[2 – 3 VA]
Coil Power Rating DC	2250 mW
Coil Resistance	64 Ω
Coil Special Features	UL Coil Insulation Class F
Coil Voltage Rating	12 VDC
Contact Switching Load (Min)	1A @ 5V
Contact Switching Voltage (Max)	30 VDC
Contact Voltage Rating	30 VDC

Body Features

Insulation Special Features	6000V Initial Surge Withstand Voltage between Contacts & Coil
Product Weight	26.6 g[.939 oz]
Packaging Style	Panel Mount
Case Color	Black

Contact Features

Contact Plating Material	Silver Nickel
Switch Arrangement	1 Form A (SPST-NO)
Contact Arrangement	1 Form A (NO)
Contact Current Class	30 – 50 A
Contact Current Rating (Max)	40 A
Contact Material	AgNi90/10
Contact Number of Poles	1

Relay Terminal Type	PCB-THT

Termination Features

Relay Termination Type	Printed Circuit Terminals

Mechanical Attachment

Relay Mounting Type	Printed Circuit Board

Dimensions

Length Class (Mechanical)	30 – 35 mm
Height Class (Mechanical)	25 – 30 mm
Insulation Clearance Between Contact & Coil	3.5 mm[.138 in]
Insulation Clearance Class	2.5 – 4 mm
Product Width	27.43 mm[1.08 in]
Product Length	32.51 mm[1.28 in]
Product Height	24.2 mm[.95 in]

Usage Conditions

Environmental Ambient Temperature (Max)	85 °C[185 °F]
Environmental Ambient Temperature Class	70 – 85 °C
Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]

Packaging Features

Packaging Method	Tray

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 2022 (224) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHC
Halogen Content	Not Yet Reviewed for halogen content
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

TE Part # 2027395-3
T9SV1K15-12S

TE Part # 2027395-9
T9VV1K19-12

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.

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

Product Environmental Compliance

Product Compliance

English

Product Compliance

English