

T9CP5A54-120

✓ ACTIVE

Potter & Brumfield | Potter & Brumfield T9C

TE Internal #: 1-1649341-9

General Purpose Power Relay, AC, Monostable, 1 Form C SPDT-CO, 20 A Contact Rating, 120 VAC Coil Voltage, Potter & Brumfield T9C

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Relays & Contactors > Electromechanical Relays



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

Coil Magnetic System: **Monostable**

Contact Arrangement: **1 Form C SPDT-CO**

Current Type: **AC**

Contact Current Rating: **20 A**

Features

Product Type Features

| | |
|------------------------|-----------------------------|
| Relay & Contactor Type | General Purpose Power Relay |
|------------------------|-----------------------------|

Configuration Features

| | |
|-------------------------|----------------------------|
| Contact Number of Poles | 2 |
| Coil Special Features | UL Coil Insulation Class F |
| Contact Arrangement | 1 Form C SPDT-CO |

Electrical Characteristics

| | |
|---|-------------|
| Contact Limiting Short-Time Current | 30 A |
| Contact Limiting Making Current | 30 A |
| Contact Limiting Continuous Current | 30 A |
| Contact Limiting Breaking Current | 30 A |
| Insulation Initial Dielectric Between Open Contacts | 1500 Vrms |
| Contact Switching Voltage (Max) | 277 VAC |
| Contact Switching Load (Min) | 1000mA @ 5V |
| Coil Resistance | 2800 Ω |



| | |
|---|-----------|
| Coil Power Rating AC | 1.6 VA |
| Insulation Initial Resistance | 1000 MΩ |
| Contact Current Rating | 20 A |
| Coil Voltage Rating | 120 VAC |
| Contact Voltage Rating | 250 VAC |
| Insulation Initial Dielectric Between Contacts & Coil | 2500 Vrms |

Body Features

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|----------------|----------------|
| Enclosure Type | Dust Protected |
|----------------|----------------|

Contact Features

| | |
|------------------|----------|
| Contact Material | AgSnOInO |
|------------------|----------|

Termination Features

| | |
|------------------------------------|-------------------------|
| Main Termination & Connection Type | Quick Connect Terminals |
| Coil Termination & Connection Type | Quick Connect Terminals |

Mechanical Attachment

| | |
|-------------------------------|----------------------------|
| Product Mounting Feature Type | Flange with Mounting Slots |
| Product Mount Type | Panel Mount |

Dimensions

| | |
|---|-------------------|
| Insulation Clearance Between Contact & Coil | 3.18 mm[.125 in] |
| Insulation Creepage Between Contact & Coil | 6.36 mm[.25 in] |
| Product Width | 27.43 mm[1.08 in] |
| Product Length | 50.29 mm[1.98 in] |
| Product Height | 27.94 mm[1.1 in] |

Usage Conditions

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

Operation/Application

| | |
|----------------------|------------|
| Coil Magnetic System | Monostable |
| Current Type | AC |

Packaging Features

| | |
|------------------|----------|
| Packaging Method | Tray/Box |
|------------------|----------|



Other

| | |
|---------------------------|----------------------------------|
| | >1.1 – ≤1.8 VA |
| Contact Current Class | >16 – ≤25 A |
| Height Class (Mechanical) | >27 – ≤33 mm[>1.063 – ≤1.299 in] |
| Length Class (Mechanical) | >45 – ≤70 mm[>1.772 – ≤2.756 in] |
| Width Class (Mechanical) | >22 – ≤33 mm[>.866 – ≤1.299 in] |

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 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC |
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
| Solder Process Capability | Not applicable 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 # 1-1649341-7
T9CP5A54-24

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

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

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

Also in the Series

Potter & Brumfield T9C

AC Relays(12)

General Purpose Power Relays(12)

Customers Also Bought

TE Part #HD36-24-16SN
PLG, 16P, AL, N, 12, S

TE Part #1SNA111034R0400
MB10/12.SFL

TE Part #1376348-1
5MM POWER KEY CONN REC CONT M

TE Part #1376389-1
5MM POWER KEY 3P PLUG HSG NUT M

TE Part #1376395-1
5MM POWER KEY D/L PLATE GREEN

TE Part #1423157-5
7012AC=RLY,STD,ON,2P,120VAC,15

TE Part #1423162-5
7022AC=RLY,STD,OFF,2P 120VAC,1

TE Part #1534072-4
MULTIF.ASSY MK2 4POS, AR

TE Part #1649341-2
T9CP1A54-240

TE Part #6609053-9
10EHT1=F7667 S0



Documents

Product Drawings

T9CP5A54-120

English

Product Specifications

Definitions General Purpose Relays

English

Agency Approvals

UL

English