



Power Relay F

TE Internal #: 3-1904131-5

Power Relay F, Mini Relays, 12 VDC Coil Voltage, 30 – 50 A, 1 Form C (CO), Plug-In, 90 Ω Coil Resistance, Mounting Brackets

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Relays, Contactors & Switches > Relays > Automotive Relays > Automotive Plug-In Relays > Mini Relays



Rated Coil Voltage: **12 VDC**

Mini Relay Contact Current Class: **30 – 50 A**

Mini Relay Contact Arrangement: **1 Form C (CO)**

Mini Relay Mounting Type: **Plug-In**

Mini Relay Coil Resistance: **90 Ω**

Features

Product Type Features

| | |
|------------|----------------|
| Relay Type | Power Relay F4 |
|------------|----------------|

Electrical Characteristics

| | |
|--|----------------|
| Current Rating (85°C) | 60 A |
| Coil Power Rating Class | >1.5W W |
| Contact Limiting Short-Time Current | 240 A |
| Insulation Initial Dielectric Between Contacts and Coil | 500 Vrms |
| Insulation Initial Dielectric Between Coil/Contact Class | 0 – 500 V |
| Insulation Initial Dielectric Between Open Contacts | 500 Vrms |
| Coil Magnetic System | Monostable, DC |
| Contact Limiting Making Current | 120 A |
| Coil Power Rating (DC) | 1600 mW |
| Contact Limiting Continuous Current | 60 A |
| Rated Voltage | 12 VDC |
| Contact Limiting Breaking Current | 60 A |
| Contact Switching Load (Min) | 1000mA @ 5VDC |
| Rated Coil Voltage | 12 VDC |
| Mini Relay Coil Resistance | 90 Ω |

Body Features



| | |
|--------|--------------|
| Weight | 35 g[1.2 oz] |
|--------|--------------|

Contact Features

| | |
|----------------------------------|------------------------|
| Terminal Type | Plug-In, Quick Connect |
| Contact Base Material | Silver Alloy |
| Mini Relay Contact Current Class | 30 – 50 A |
| Mini Relay Contact Arrangement | 1 Form C (CO) |

Mechanical Attachment

| | |
|--------------------------|---------|
| Mini Relay Mounting Type | Plug-In |
|--------------------------|---------|

Dimensions

| | |
|---------------------------|-------------------|
| Width Class (Mechanical) | 25 – 30 mm |
| Height | 25.5 mm[1.004 in] |
| Length | 28 mm[1.102 in] |
| Length Class (Mechanical) | 25 – 30 mm |
| Width | 28 mm[1.102 in] |
| Height Class (Mechanical) | 25 – 30 mm |

Usage Conditions

| | |
|---|----------------|
| Environmental Ambient Temperature Class | 105 – 125°C |
| Environmental Ambient Temperature (Max) | 125 °C[257 °F] |

Other

| | |
|-------------------|------|
| Mounting Brackets | With |
|-------------------|------|

Product Compliance

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

| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Not Compliant |
| 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 2022 (223) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHC |
| Halogen Content | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |



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

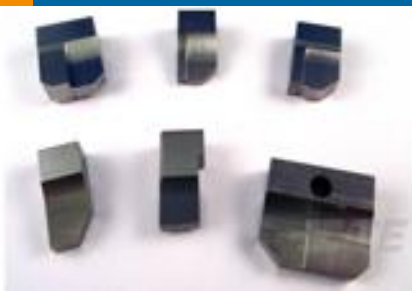


Also in the Series | Power Relay F



Customers Also Bought





TE Part #1333332-2
ANVIL, COMBINATION, SPECIAL



TE Part #539653-2
MATRIZE .250 FF



TE Part #0838016008
RBK-VWS-125-NR1-X-25MM



TE Part #1747731-3
0.64/1.0 SEALED 49POS PLUG ASSY,
A KEY



TE Part #776665-1
Wire Cover, V Type, 49 Position

Documents

Product Drawings

[V23134A4052X544-EV-CBOX](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_3-1904131-5_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_3-1904131-5_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_3-1904131-5_A.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[Automotive Relay Application Notes](#)

English

[Shrouded Power Relay F4, Mini ISO, Plug-In](#)

English

Product Specifications

[Definitions, Handling, Processing, Testing and Use of Relays](#)

English

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