



Power Relay F

TE Internal #: 1-1414167-0
Automotive Power Relay, DC, Monostable, 1 Form C SPDT-CO, 60 A Contact Rating, 24 VDC Coil Voltage, 24 VDC Contact Voltage,
Power Relay F
[View on TE.com >](#)

Relays & Contactors > Electromechanical Relays



Relay & Contactor Type: **Automotive Power Relay**
Coil Magnetic System: **Monostable**
Contact Arrangement: **1 Form C SPDT-CO**
Current Type: **DC**
Contact Current Rating: **60 A**

Features

Product Type Features

Relay & Contactor Type	Automotive Power Relay
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Configuration Features

Coil Special Features	Diode (Cathode 86)
Contact Arrangement	1 Form C SPDT-CO

Electrical Characteristics

Contact Limiting Short-Time Current	240 A
Contact Limiting Making Current	120 A
Contact Limiting Continuous Current	60 A
Contact Limiting Breaking Current	20 A
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Switching Load (Min)	1000mA @ 5VDC
Coil Resistance	268 Ω
Contact Current Rating	60 A
Coil Voltage Rating	24 VDC
Contact Voltage Rating	24 VDC
Coil Power Rating DC	2.1 W
Insulation Initial Dielectric Between Contacts & Coil	500 Vrms

Body Features



Product Weight	35 g[1.2 oz]
Enclosure Type	Dust Protected

Contact Features

Contact Material	Silver Alloy
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Termination Features

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

Mechanical Attachment

Product Mount Type	Socket Mount
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Dimensions

Product Width	25.9 mm[1.019 in]
Product Length	25.9 mm[1.019 in]
Product Height	24.9 mm[.98 in]

Usage Conditions

Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]
Environmental Category of Protection	RTI
Environmental Ambient Temperature (Max)	105 °C[221 °F]

Operation/Application

Coil Magnetic System	Monostable
Current Type	DC

Other

Coil Power Rating Class	>1.5 – ≤3 W
Contact Current Class	>16 – ≤25 A
Height Class (Mechanical)	>22 – ≤27 mm[>.866 – ≤1.063 in]
Length Class (Mechanical)	>22 – ≤33 mm[>.866 – ≤1.299 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 with Exemptions
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量超出标准 Restricted

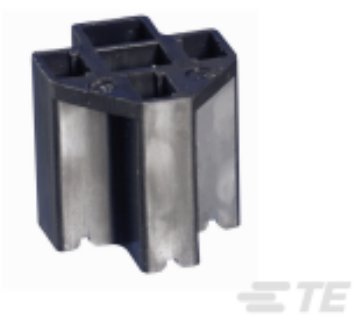


	Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (92.5% in 30922620965) Article Safe Usage Statements: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable for solder process capability

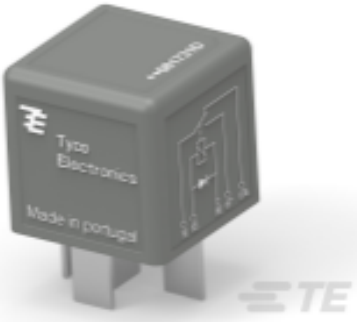
Product Compliance Disclaimer

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>

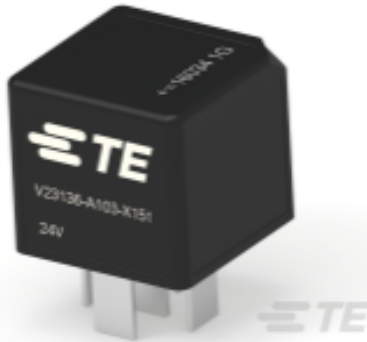
Compatible Parts



TE Part # 1-1904045-1
[V23333Z0001A007-EV-100](#)



TE Part # 4-1904049-7
[V23134A0007X942-EV-590](#)



TE Part # 2383369-1
[V23136A0103X151-SZ-CBOX](#)



TE Part # 1904056-2
[V23134A0007X936-EV-441](#)

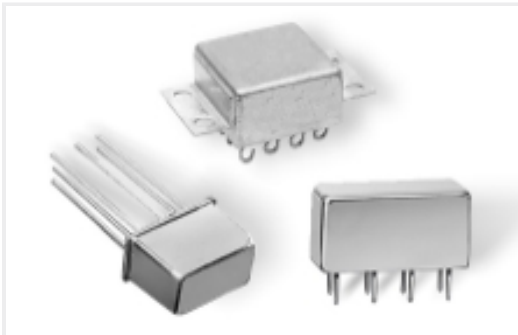


TE Part # 8-1904049-9
[V23134A0007X936-EV-850](#)

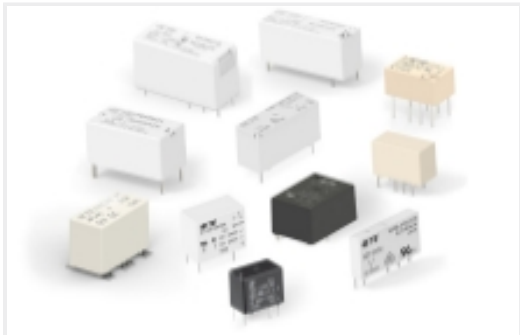
Also in the Series | [Power Relay F](#)



Automotive Relays(61)



DC Relays(61)



PCB Relays(7)

Customers Also Bought



TE Part #K1145785
Battery Disconnecter 35-223-160-R



TE Part #K1142884
Battery Disconnecter 35-210-051-R-900



TE Part #ANT-W63-CW-RCS-SMA
Antenna 1/4 Wave R-Angle Wifi6/6E SMA



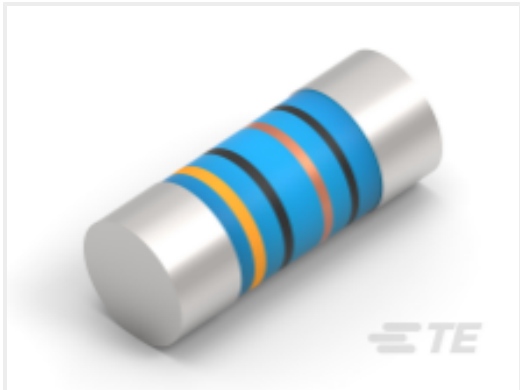
TE Part #4-1393302-1
V23134A0052X278-EV-CBOX



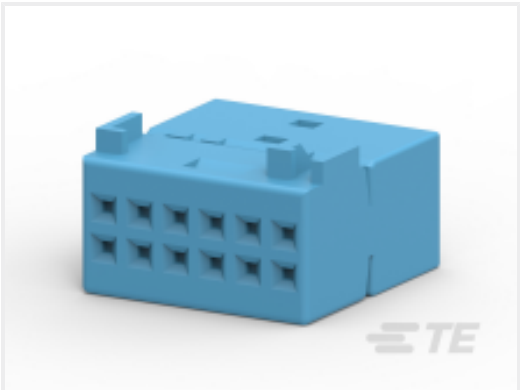
TE Part #8-1415074-1
PT2S7LC4



TE Part #7-1622796-9
YR1 0.1% 178K



TE Part #5-2176316-0
MELF SMA_A 1K0 1% 50PPM 0207 1W



TE Part #2278598-1
12POS MQS REC



TE Part #2278600-3
52POS, MIXED REC. HSG+LEVER, ASS'Y



TE Part #602-439-004
GNSS 9M/FAKRAfC/5.0

Documents

Product Drawings

CAD Files

Customer View Model

[ENG_CVM_1-1414167-0_S00F.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_1-1414167-0_S00F.3d_stp.zip](#)

English



Customer View Model

[ENG_CVM_1-1414167-0_S00F.2d_dxf.zip](#)

English

[3D PDF](#)

English

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

Datasheets & Catalog Pages

[Automotive Relay Application Notes](#)

English

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

English

Product Specifications

[Definitions General Purpose Relays](#)

English