



Power Relay F

TE Internal #: 1-1414167-0
24VDC Coil Voltage Rating, 30 – 50A Contact Current Class,
Contact Arrangement 1 Form C SPDT-CO, Diode (Cathode 86),
Power Relay F, Mini Relays

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



Coil Voltage Rating: **24 VDC**
Contact Current Class: **30 – 50 A**
Contact Arrangement: **1 Form C SPDT-CO**
Coil Special Features: **Diode (Cathode 86)**
Product Mount Type: **Socket**

Features

Configuration Features

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

Electrical Characteristics

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

Body Features

Product Weight	35 g[1.2 oz]
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Contact Features



Contact Material	Silver Alloy
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Termination Features

Relay Connection Type	Plug-In
Terminal Configuration	Quick Connect Terminals

Mechanical Attachment

Product Mount Type	Socket
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Dimensions

Product Width	25.9 mm[1.02 in]
Product Length	25.9 mm[1.02 in]
Product Height	24.9 mm[.98 in]

Usage Conditions

Environmental Category of Protection	RTI
Environmental Ambient Temperature (Max)	125 °C[257 °F]

Operation/Application

Current Type	DC
Coil Magnetic System	Monostable

Other

Environmental Ambient Temperature Class	105 – 125 °C
Length Class (Mechanical)	25 – 30 mm
Height Class (Mechanical)	20 – 25 mm
Width Class (Mechanical)	25 – 30 mm
Contact Current Class	30 – 50 A

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 with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2023 (235) SVHC > Threshold: Pb (92.5% in Component part) 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, 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



TE Part # 2383369-1
V23136A0103X151-SZ-CBOX



TE Part # 1-1904045-1
V23333Z0001A007-EV-100



TE Part # 1904056-2
V23134A0007X936-EV-441



TE Part # 4-1904049-7
V23134A0007X942-EV-590



TE Part # 8-1904049-9
V23134A0007X936-EV-850

Also in the Series | Power Relay F

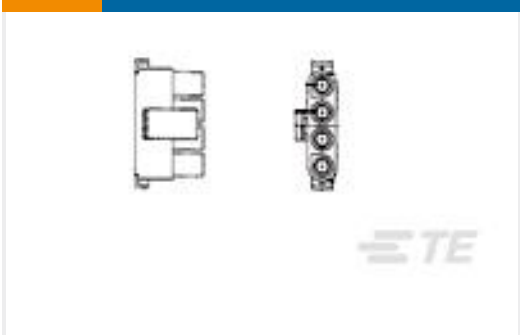


Maxi Relays(12)



Mini Relays(43)

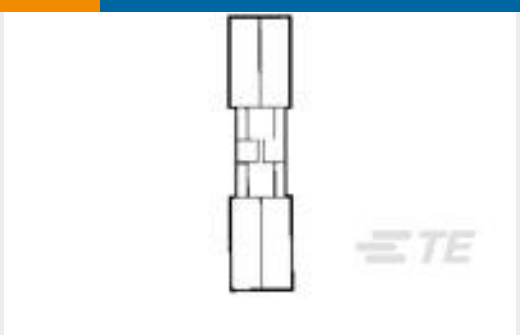
Customers Also Bought



TE Part #794116-1
04P .156 MNL PLUG



TE Part #61085-1
.156 MNL SOK PTPBR



TE Part #322459
SPLICE,SOLIS BUTT STRAP 16-14



TE Part #1564411-7
SLIDE, TAB HSG GROUP E



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



TE Part #170892-1
187 FASTON HSG.,REC.,NATRUAL



TE Part #1-1478903-0
SMA STR PLG DS RG402 GSS



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



TE Part #1108784-1
MDL2-GR.O/U-3

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