1-1414168-0 ✔ ACTIVE

Power Relay F

TE Internal #: 1-1414168-0

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

Configuration Features

Coil Special Features	Rp 1200Ω
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

Termination Features

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

Mechanical Attachment

Product Mount Type	Socket Mount

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
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	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

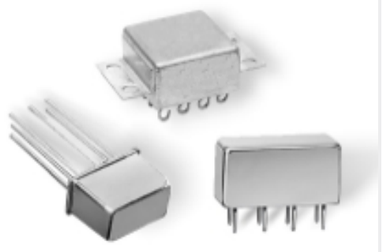
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

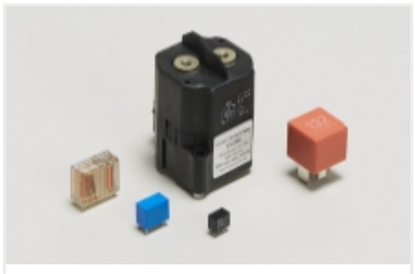


TE Part # 1-1904045-1
V23333Z0001A007-EV-100

Also in the Series | Power Relay F



DC Relays(61)



Electromechanical Relays(61)

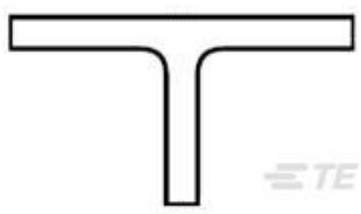


Plug-In Relays(54)



Relay Accessories(1)

Customers Also Bought



TE Part #811462-000
301A511-50-0



TE Part #HD10-9-1939PE-B022
REC, 9P, BLK, E, PANEL, J1939, TYPE 1



TE Part #HC5899
BAT CONNECTOR POS8MM
AUXILLARY MNT



TE Part #0838016006
RBK-VWS-125-NR1-X-40MM



TE Part #HC5883
CLAMP BATTERY POS



TE Part #K1125793
Toggle Switch 07-1-2-13 929



TE Part #K1122785
Switch guard 08-0-0-02 907

TE Part #AAE0129-00
PJCN-1-ZN-NK2-PCR16.1

TE Part #87798-000
PSS-X1005 PROXIMITY SENSOR

TE Part #K1060251-2
Relay 29-311-12-915 C3215

Documents

CAD Files

3D PDF

3D

Customer View Model
ENG_CVM_CVM_1-1414168-0_A.2d_dxf.zip

English

Customer View Model
ENG_CVM_CVM_1-1414168-0_A.3d_igs.zip

English

Customer View Model
ENG_CVM_CVM_1-1414168-0_A.3d_stp.zip

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