2-1904131-9 ✔ ACTIVE

Power Relay F

TE Internal #: 2-1904131-9

Automotive Power Relay, DC, Monostable, 1 Form C SPDT-CO, 40 A Contact Rating, 12 VDC Coil Voltage, 12 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: **40 A**

Features

Product Type Features

Relay & Contactor Type	Automotive Power Relay

Configuration Features

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	60 A
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Switching Load (Min)	1000mA @ 5VDC
Coil Resistance	90 Ω
Contact Current Rating	40 A
Coil Voltage Rating	12 VDC
Contact Voltage Rating	12 VDC
Coil Power Rating DC	1.6 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 Mounting Feature Type	Mounting Brackets
Product Mount Type	Socket Mount

Dimensions

Product Width	28 mm[1.102 in]
Product Length	28 mm[1.102 in]
Product Height	25.5 mm[1 in]

Usage Conditions

Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]
Environmental Category of Protection	RTI
Environmental Ambient Temperature (Max)	125 °C[257 °F]

Operation/Application

Coil Magnetic System	Monostable
Current Type	DC

Other

Coil Power Rating Class	>1.5 – ≤3 W
Contact Current Class	>50 – ≤200 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 reviewed 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 # 1-1414549-0
V23134Z1027-EV-CBOX

Also in the Series | Power Relay F



Automotive Relays(61)



PCB Relays(7)



Plug-In Relays(54)



Relay Accessories(1)

Customers Also Bought



TE Part #HDB36-18-14SN-059
BR AWY PL ASM,MC



TE Part #1062-12-0222
SOC, SF, SIZE 12, 10, NI/NI



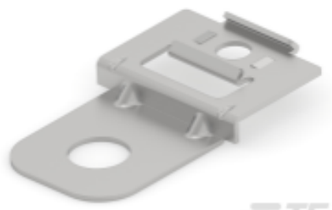
TE Part #DT06-6S-P012
PLG, 6P, BLK, N, SEAL RET



TE Part #W2S
WEDGE LOCK, 2P, PLG, ORG, STD, DT



TE Part #DTP06-4S
PLG, 4P, GRY, N



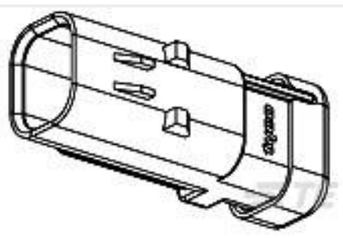
TE Part #1027-008-1200
CLIP, STEEL, ZINC, 11MM HOLE, SIDE



TE Part #M902-2132
BKSHL, 3SZ, CBL SZ .300-.430, HD10



TE Part #CAT-AM7801-T273
Contacts: Size 16, 13A



TE Part #776430-1
AS16,CAP ASSY,ST,03P,N SEAL,CODE A

Documents

Product Drawings

V23134A4052X543-EV-CBOX

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2-1904131-9_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2-1904131-9_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2-1904131-9_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

Shrouded Power Relay F4, Mini ISO, Plug-In

English

Product Specifications

Definitions General Purpose Relays

English