



Power Relay F

TE Internal #: 3-1415001-2

Maxi Relays, 12VDC Coil Voltage Rating, >50A Contact Current Class, Socket, Monostable, 90Ω Coil Resistance, Power Relay F

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



Coil Voltage Rating: 12 VDC

Contact Current Class: >50 A

Product Mount Type: Socket

Coil Magnetic System: Monostable

Coil Resistance: 90 Ω

Features

Configuration Features

Contact Arrangement	1 Form A (NO)
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Electrical Characteristics

Contact Limiting Short-Time Current	300 A
Contact Limiting Continuous Current	70 A
Current Rating (85°C)	70 A
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Limiting Making Current	240 A
Insulation Initial Dielectric Between Contacts & Coil	500 Vrms
Contact Limiting Breaking Current	70 A
Contact Voltage Rating	12 VDC
Contact Switching Load (Min)	1000mA @ 5VDC
Coil Power Rating DC	1600 mW
Coil Voltage Rating	12 VDC
Coil Resistance	90 Ω

Body Features

Product Weight	38 g[1.3 oz]
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Contact Features

Contact Material	Silver Alloy
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Termination Features



Relay Connection Type	PCB Termination
Terminal Configuration	PCB Tails

Mechanical Attachment

Product Mount Type	Socket
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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

Environmental Ambient Temperature (Max)	125 °C[257 °F]
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Operation/Application

Solder Process	Wave Solder
Actuating System	DC
Coil Magnetic System	Monostable

Other

Length Class (Mechanical)	25 - 30 mm
Environmental Ambient Temperature Class	105 - 125 °C
Insulation Initial Dielectric Between Coil & Contact Class	0 - 500 V
Height Class (Mechanical)	20 - 25 mm
Coil Power Rating Class	1500 mW
Width Class (Mechanical)	25 - 30 mm
Contact Current Class	>50 A

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	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) Does not contain REACH SVHC

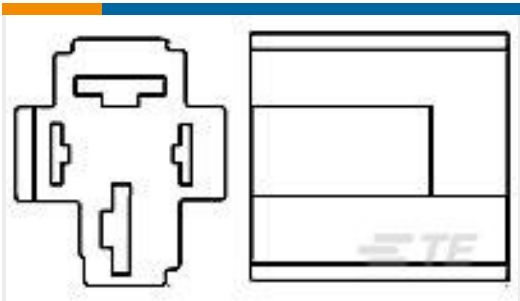


Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable for solder process capability

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



TE Part # 1393310-4
VCF7-1000=FROM SEC

Also in the Series | Power Relay F



Maxi Relays(14)



Mini Relays(49)

Customers Also Bought



TE Part # 6-1676966-5
SMW2 47R 5%

TE Part # 3-1393641-1
V42254B2202C960=PC612 FEDERLEI

TE Part # 9-1879510-1
CRGH0805 1% 10K 0.33W

TE Part # 3-1827159-8
1.25FP,R08,SL,B,C,TR

TE Part # DT16-18SB-K004
PLG, 18P, BLK, E, B

TE Part # 383015-007
44A1121-24-6/9-9

TE Part # 1010-038-0606
SEAL, INTF, 6P, RED-ORG, DTM

TE Part # 2196262-1
ARM LEVER BLACK MOULDED

TE Part # 2196263-1
HOUSING BODY

Documents

- CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_3-1415001-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_3-1415001-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_3-1415001-2_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 F7, Maxi ISO, Plug-In

English



Product Specifications

Definitions General Purpose Relays

English