



Power Relay F A

TE Internal #: 1-1414552-0
Power Relay F A, Mini Relays, 12VDC Rated Coil Voltage, 30 – 50 A,
1 Form C (CO), Rp 680Ω, Plug-In, 114Ω Mini Relay Coil Resistance,
Mounting Brackets

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Rated Coil Voltage: 12 VDC
Mini Relay Contact Current Class: 30 – 50 A
Mini Relay Contact Arrangement: 1 Form C (CO)
Coil Suppression: Rp 680Ω
Mini Relay Mounting Type: Plug-In

Features

Product Type Features

| | |
|------------|------------------|
| Relay Type | Power Relay F4 A |
|------------|------------------|

Electrical Characteristics

| | |
|--|----------------|
| Current Rating (85°C) | 60 A |
| Coil Power Rating Class | 1 – 1.5 W W |
| Contact Limiting Short-Time Current | 240 A |
| Insulation Initial Dielectric Between Contacts and Coil | 500 Vrms |
| Insulation Initial Dielectric Between Coil/Contact Class | 0 – 500 V |
| Insulation Initial Dielectric Between Open Contacts | 500 Vrms |
| Coil Magnetic System | Monostable, DC |
| Contact Limiting Making Current | 120 A |
| Coil Power Rating (DC) | 1300 mW |
| Contact Limiting Continuous Current | 60 A |
| Rated Voltage | 12 VDC |
| Contact Limiting Breaking Current | 60 A |
| Contact Switching Load (Min) | 1000mA @ 5VDC |
| Rated Coil Voltage | 12 VDC |
| Coil Suppression | Rp 680Ω |
| Mini Relay Coil Resistance | 114 Ω |



Body Features

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|--------|--------------|
| Weight | 60 g[2.1 oz] |
|--------|--------------|

Contact Features

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|----------------------------------|------------------------|
| Terminal Type | Plug-In, Quick Connect |
| Contact Base Material | Ag Alloy |
| Mini Relay Contact Current Class | 30 – 50 A |
| Mini Relay Contact Arrangement | 1 Form C (CO) |

Mechanical Attachment

| | |
|--------------------------|---------|
| Mini Relay Mounting Type | Plug-In |
|--------------------------|---------|

Dimensions

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|---------------------------|--------------------|
| Width Class (Mechanical) | 30 – 40 mm |
| Height | 54.2 mm[2.133 in] |
| Length | 32.41 mm[1.276 in] |
| Length Class (Mechanical) | 30 – 35 mm |
| Width | 35.2 mm[1.386 in] |
| Height Class (Mechanical) | >50mm |

Usage Conditions

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|---|----------------|
| Environmental Ambient Temperature Class | 105 – 125°C |
| Environmental Ambient Temperature (Max) | 125 °C[257 °F] |

Other

| | |
|-------------------|------|
| Mounting Brackets | With |
|-------------------|------|

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 2021 (211) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC |
| Halogen Content | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC |



Free

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>

Also in the Series

Power Relay F A

Maxi Relays(2)

Mini Relays(10)

Customers Also Bought

TE Part #1-480510-0
04P .140 MNL PLUG NAT

TE Part #1-962917-1
TIMER, RECEPTACLE AND TAB

TE Part #1-968322-1
MQS, CONNECTOR HOUSING

TE Part #1-1414122-0
V23136J1004X050-EV-CBOX

TE Part #1-968321-2
MQS ABDECKKAPPE 40P

TE Part #1-1534093-1
MQS COVER 2X6 POS

TE Part #1393458-1
V23540M1000Z111=DICHTTULLE ELO

TE Part #1028-013-0805
DEUTSCH DTM BACKSHELLS



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-1414552-0_O.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-1414552-0_O.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-1414552-0_O.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 A, Mini ISO, Plug-In

English

Product Specifications

Definitions, Handling, Processing, Testing and Use of Relays

English