



Power Relay F

TE Internal #: 3-1415001-2

General Purpose Power Relay, DC, Monostable, 1 Form A (NO), 70 A Contact Rating, 12 VDC Coil Voltage, 12 VDC Contact Voltage, Power Relay F

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Relays & Contactors > Electromechanical Relays



Relay & Contactor Type: **General Purpose Power Relay**

Current Type: **DC**

Coil Magnetic System: **Monostable**

Contact Arrangement: **1 Form A (NO)**

Contact Current Rating: **70 A**

Features

Product Type Features

| | |
|------------------------|-----------------------------|
| Relay & Contactor Type | General Purpose Power Relay |
|------------------------|-----------------------------|

Configuration Features

| | |
|---------------------|---------------|
| Contact Arrangement | 1 Form A (NO) |
|---------------------|---------------|

Electrical Characteristics

| | |
|---|---------------|
| Contact Switching Load (Min) | 1000mA @ 5VDC |
| Contact Limiting Short-Time Current | 300 A |
| Contact Limiting Making Current | 240 A |
| Coil Resistance | 90 Ω |
| Contact Limiting Continuous Current | 70 A |
| Contact Limiting Breaking Current | 70 A |
| Insulation Initial Dielectric Between Open Contacts | 500 Vrms |
| Contact Current Rating | 70 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 | 38 g[1.3 oz] |
|----------------|--------------|



Enclosure Type

Dust Protected

Contact Features

| | |
|------------------|--------------|
| Contact Material | Silver Alloy |
|------------------|--------------|

Termination Features

| | |
|------------------------------------|-------------|
| Main Termination & Connection Type | Solder Pins |
| Coil Termination & Connection Type | Solder Pins |

Mechanical Attachment

| | |
|--------------------|-------------|
| Product Mount Type | Board 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

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

Operation/Application

| | |
|----------------------|---------------------|
| Solder Process | Wave Solder Capable |
| Current Type | DC |
| Coil Magnetic System | Monostable |

Other

| | |
|---|--------------|
| Contact Current Class | >50 A |
| Coil Power Rating Class | 1.5 W |
| Environmental Ambient Temperature Class | 105 – 125 °C |
| Height Class (Mechanical) | 20 – 25 mm |
| Length Class (Mechanical) | 25 – 30 mm |
| Width Class (Mechanical) | 25 – 30 mm |

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 2025
(247)
Candidate List Declared Against: JAN 2025
(247)
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

DC Relays(57)

Electromechanical Relays(57)

Plug-In Relays(50)

Customers Also Bought





TE Part #3-2328724-9
39PIN 0.3MMP FPC CONNECTOR,
FRONT FLIP



TE Part #1487596-3
USB, A-B, 28/24, BLACK, 1.8M



TE Part #CAT-3984552-PHITPS
CT Post Header Assembly: Part.
Shrouded



TE Part #1-207524-0
SKT HDR ASSY,6P,MMATE LF



TE Part #2176343-7
CRGCQ 1206 33R 1%



TE Part #776536-1
AS16,CAP ASSY,ST,04P,E SEAL,CODE
A



TE Part #640452-3
03P MTA100 HDR ASSY SQ STR



TE Part #3-1827158-8
1.25FP,P08,SL,B,C,TR,5.00,5.80



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

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