



Power Relay F

TE Internal #: 5-1393302-8
Mini Relays, 12VDC Coil Voltage Rating, 30 - 50A Contact Current Class, Contact Arrangement 1 Form C (CO), Socket, 90Ω Coil Resistance, Power Relay F

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



Coil Voltage Rating: 12 VDC
Contact Current Class: 30 - 50 A
Contact Arrangement: 1 Form C (CO)
Product Mount Type: Socket
Coil Resistance: 90 Ω

Features

Configuration Features

| | |
|---------------------|---------------|
| Contact Arrangement | 1 Form C (CO) |
|---------------------|---------------|

Electrical Characteristics

| | |
|-------------------------------------------------------|---------------|
| Contact Limiting Short-Time Current | 240 A |
| Contact Limiting Continuous Current | 60 A |
| Current Rating (85°C) | 60 A |
| Insulation Initial Dielectric Between Open Contacts | 500 Vrms |
| Contact Limiting Making Current | 120 A |
| Insulation Initial Dielectric Between Contacts & Coil | 500 Vrms |
| Contact Limiting Breaking Current | 60 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

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|----------------|--------------|
| Product Weight | 35 g[1.2 oz] |
|----------------|--------------|

Contact Features

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



Termination Features

| | |
|------------------------|-------------------------|
| Relay Connection Type | Plug-In |
| Terminal Configuration | Quick Connect Terminals |

Mechanical Attachment

| | |
|-------------------------------|-------------------|
| Product Mounting Feature Type | Mounting Brackets |
| Product Mount Type | Socket |

Dimensions

| | |
|----------------|------------------|
| Product Width | 25.9 mm[1.02 in] |
| Product Length | 25.9 mm[1.02 in] |
| Product Height | 24.9 mm[.98 in] |

Usage Conditions

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

Operation/Application

| | |
|----------------------|------------|
| 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 |
| Width Class (Mechanical) | 25 - 30 mm |
| Contact Current Class | 30 - 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: JUNE 2023 (235) 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 # 1-1904045-1
[V23333Z0001A007-EV-100](#)

Also in the Series

Power Relay F

Maxi Relays(14)

Mini Relays(49)

Customers Also Bought



TE Part # NB-PTCO-032
Pt100, 1.2x4.0, Class B, PTFM101B1G0

TE Part # 2213800-2
COOLSPICE NEW STANDARD

TE Part # 1-1393305-3
VCF4-1003=VC

TE Part # 60249-1
FF 250 REC 16-12AWG BR

TE Part # 2-165565-1
2,8 PIDG FASTON REC

TE Part # 160807-2
250 FASTON,REC.,20-16 AWG,BR

TE Part # 3-1393127-5
PRD-11DG0-12=PRD

TE Part # 0004-058-100L
CONT PIN

TE Part # 7-1393131-4
PRDA-11AGA-120=PRD

TE Part # DTM06-3S-COMPLETE
DTM06-3S W/ WEDGELOCK AND TERMINALS

Documents

Product Drawings
V23134A1052C643-EV-CBOX

English

CAD Files
3D PDF
3D
Customer View Model
ENG_CVM_CVM_5-1393302-8_S00F.2d_dxf.zip
English
Customer View Model
ENG_CVM_CVM_5-1393302-8_S00F.3d_igs.zip
English
Customer View Model
ENG_CVM_CVM_5-1393302-8_S00F.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