



Power Relay F

TE Internal #: 7-1393304-1

Power Relay F, Mini Relays, 12VDC Rated Coil Voltage, 30 – 50 A, 1 Form U (NO-DM), Rp 1200Ω, Plug-In, 90Ω Mini Relay Coil Resistance

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



Rated Coil Voltage: **12 VDC**

Mini Relay Contact Current Class: **30 – 50 A**

Mini Relay Contact Arrangement: **1 Form U (NO-DM)**

Coil Suppression: **Rp 1200Ω**

Mini Relay Mounting Type: **Plug-In**

Features

Product Type Features

Relay Type	Power Relay F4
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Electrical Characteristics

Current Rating (85°C)	40 A
Coil Power Rating Class	>1.5W 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	100 A
Coil Power Rating (DC)	1600 mW
Contact Limiting Continuous Current	32 A
Rated Voltage	12 VDC
Contact Limiting Breaking Current	40 A
Contact Switching Load (Min)	1000mA @ 5VDC
Rated Coil Voltage	12 VDC
Coil Suppression	Rp 1200Ω
Mini Relay Coil Resistance	90 Ω

Body Features



Weight	35 g[1.2 oz]
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Contact Features

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 U (NO-DM)

Mechanical Attachment

Mini Relay Mounting Type	Plug-In
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Dimensions

Width Class (Mechanical)	25 – 30 mm
Height	24.9 mm[.98 in]
Length	25.9 mm[1.02 in]
Length Class (Mechanical)	25 – 30 mm
Width	25.9 mm[1.02 in]
Height Class (Mechanical)	20 – 25 mm

Usage Conditions

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

Other

Mounting Brackets	With
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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: DEC 2014 (161) SVHC > Threshold: Not Yet Reviewed
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 Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts

TE Part # 1-1904045-1
V23333Z0001A007-EV-100

Also in the Series

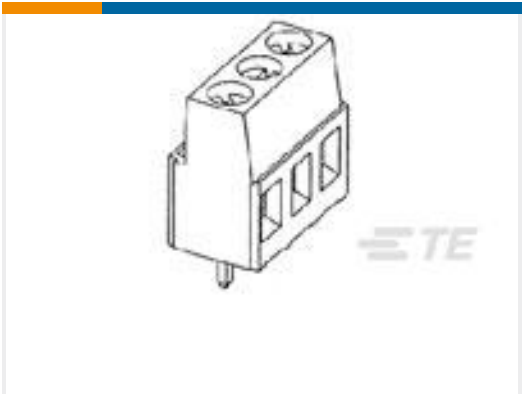
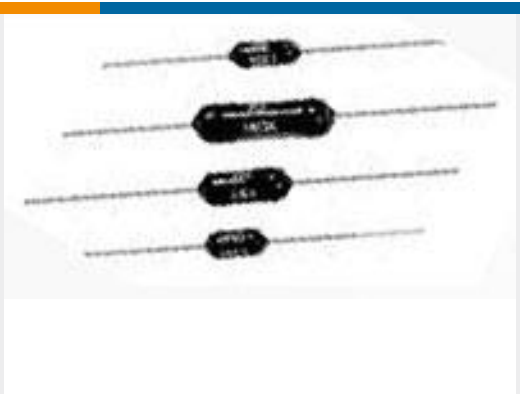
Power Relay F

Maxi Relays(14)

Mini Relays(47)

Customers Also Bought



 TE Part #1-206062-4 CPC CABLE CLAMPS	 TE Part #1-796949-8 18POS TERMI-BLOK PCB MOUNT	 TE Part #1-1879628-9 H4P 750K 1% 100PPM	 TE Part #1-2176163-6 UPF50 0.1% 5PPM 50K
 TE Part #1-1423673-8 W51-A151A1-15=CKTBKR,THERM, ROC	 TE Part #W12P DEUTSCH DT WEDGELOCKS	 TE Part #1011-026-0205 DEUTSCH DT MOUNTING CLIPS	 TE Part #1-1904027-1 V23234A1004X050-EV-100
 TE Part #1-1393250-7 W28-XQAT-15=W28	 TE Part #1-1393310-9 26A1348B=TERMINAL,CRMP,QC.250,		

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_7-1393304-1_O.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_7-1393304-1_O.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_7-1393304-1_O.3d_stp.zip

English

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Datasheets & Catalog Pages

Automotive Relay Application Notes

English

Power Relay F4 / VF4, Mini ISO, Plug-In

English



Product Specifications

Definitions, Handling, Processing, Testing and Use of Relays

English