



Power Relay F

TE Internal #: 3-1415001-2

Power Relay F, Maxi Relays, 12VDC Rated Coil Voltage, >50A Maxi
Relay Contact Current Class, Plug-In, Monostable, DC, 90Ω Maxi
Relay Coil Resistance

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



Rated Coil Voltage: **12 VDC**
Maxi Relay Contact Current Class: **>50A**
Maxi Relay Mounting Type: **Plug-In**
Maxi Relay Coil Magnetic System: **Monostable, DC**
Maxi Relay Coil Resistance: **90 Ω**

Features

Product Type Features

Relay Type	Power Relay F7
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Electrical Characteristics

Coil Power Rating Class	>1.5W
Current Rating (85°C)	70 A
Contact Limiting Short-Time Current	300 A
Insulation Initial Dielectric Between Contacts and Coil	500 Vrms
Insulation Initial Dielectric Between Coil/Contact Class	0 – 500 V
Coil Power Rating (DC)	1600 mW
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Limiting Making Current	240 A
Contact Limiting Continuous Current	70 A
Rated Voltage	12 VDC
Contact Limiting Breaking Current	70 A
Contact Switching Load (Min)	1000mA @ 5VDC
Rated Coil Voltage	12 VDC
Maxi Relay Coil Magnetic System	Monostable, DC
Maxi Relay Coil Resistance	90 Ω

Body Features

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Weight	38 g[1.3 oz]
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Contact Features

Terminal Type	PCB-THT
Contact Arrangement	1 Form A (NO)
Contact Base Material	Ag Alloy
Maxi Relay Contact Current Class	>50A

Mechanical Attachment

Maxi Relay Mounting Type	Plug-In
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Dimensions

Width Class (Mechanical)	25 – 30 mm
Length Class (Mechanical)	25 – 30 mm
Height Class (Mechanical)	20 – 25 mm
Width	25.9 mm[1.019 in]
Length	25.9 mm[1.019 in]
Height	24.9 mm[.98 in]

Usage Conditions

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

Other

Mounting Brackets	Without
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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: JUN 2020 (209) 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 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(47)

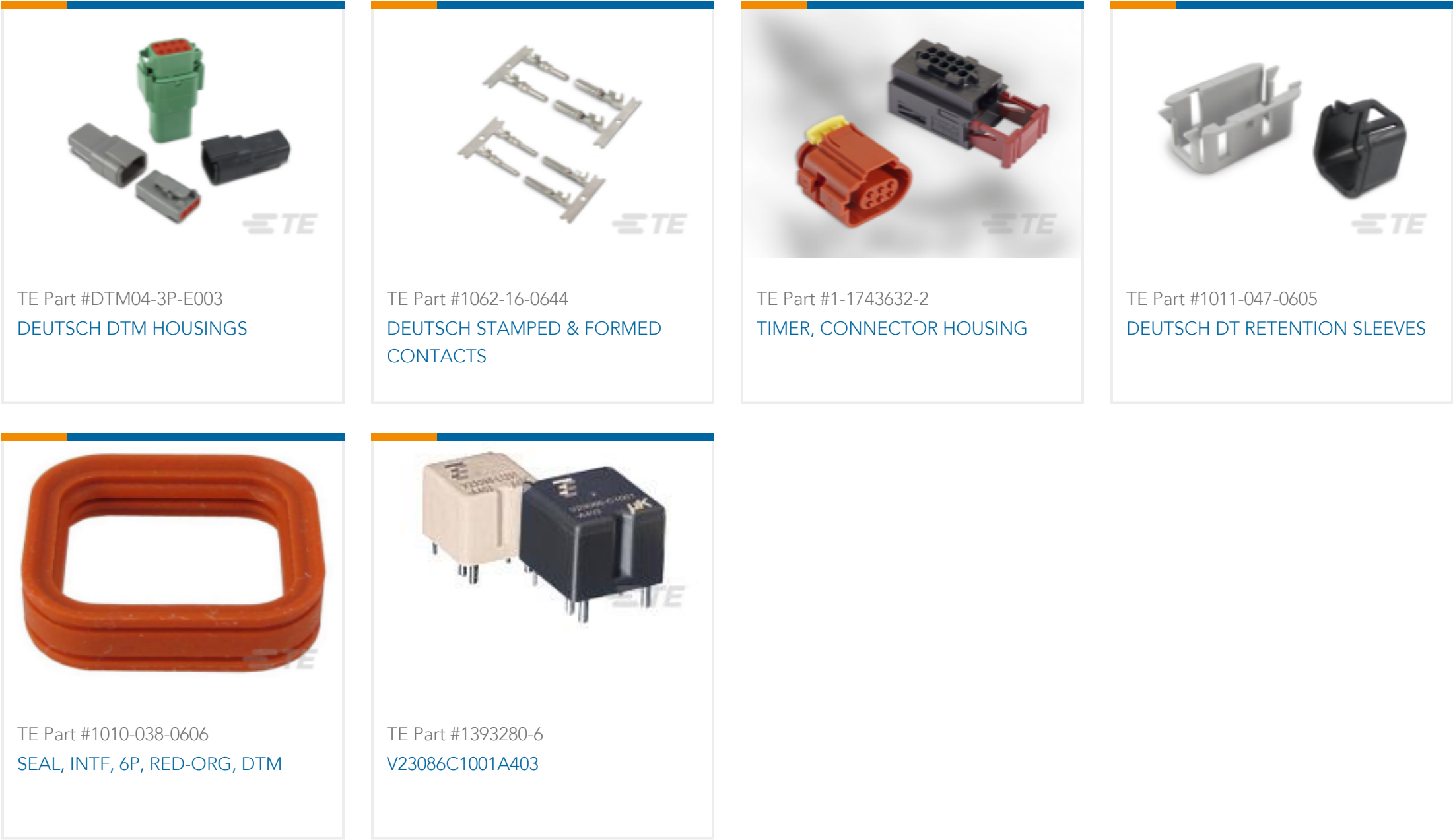
Customers Also Bought

TE Part #120953-3
UPM EXPANDED RCPT ASSEMBLY

TE Part #100526-9
Z-PACK F.CODING KEY

TE Part #1393219-6
PE014012

TE Part #1622344-1
LR1 1% 18K



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 / VF7, Maxi ISO, Plug-In

English

Product Specifications

Definitions, Handling, Processing, Testing and Use of Relays

English