



Power Relay F

TE Internal #: 1-1414168-0

General Purpose Power Relay, DC, Monostable, 1 Form C SPDT-CO, 20 A Contact Rating, 24 VDC Coil Voltage, 24 VDC Contact Voltage, Power Relay F

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Relays & Contactors > Electromechanical Relays



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

Coil Magnetic System: **Monostable**

Contact Arrangement: **1 Form C SPDT-CO**

Contact Current Class: **30 – 50 A**

Current Type: **DC**

Features

Product Type Features

Relay & Contactor Type	General Purpose Power Relay
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Configuration Features

Contact Arrangement	1 Form C SPDT-CO
Coil Special Features	Rp 1200Ω

Electrical Characteristics

Contact Limiting Short-Time Current	240 A
Contact Limiting Continuous Current	60 A
Contact Switching Load (Min)	1000mA @ 5VDC
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Limiting Making Current	120 A
Contact Current Rating	20 A
Coil Voltage Rating	24 VDC
Contact Voltage Rating	24 VDC
Coil Resistance	268 Ω
Contact Limiting Breaking Current	20 A
Coil Power Rating DC	2.1 W
Insulation Initial Dielectric Between Contacts & Coil	500 Vrms

Body Features



Product Weight	35 g[1.2 oz]
Enclosure Type	Dust Protected

Contact Features

Contact Material	Silver Alloy
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Termination Features

Main Termination & Connection Type	Quick Connect Terminals
Coil Termination & Connection Type	Quick Connect Terminals

Mechanical Attachment

Product Mount Type	Socket
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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 Category of Protection	RTI
Environmental Ambient Temperature (Max)	125 °C[257 °F]

Operation/Application

Coil Magnetic System	Monostable
Current Type	DC

Other

Environmental Ambient Temperature Class	105 – 125 °C
Contact Current Class	30 – 50 A
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: JUNE 2024 (241)
Candidate List Declared Against: JUNE 2024 (241)
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



Electromechanical Relays(55)

Customers Also Bought





TE Part #DRC16-70SB
DEUTSCH DRC Housings



TE Part #HD34-24-21SN
REC, 21P, AL, N, 12/16, S



TE Part #K1122785
Switch guard 08-0-0-02 907



TE Part #1393303-9
V23134B0053C642-EV-CBOX



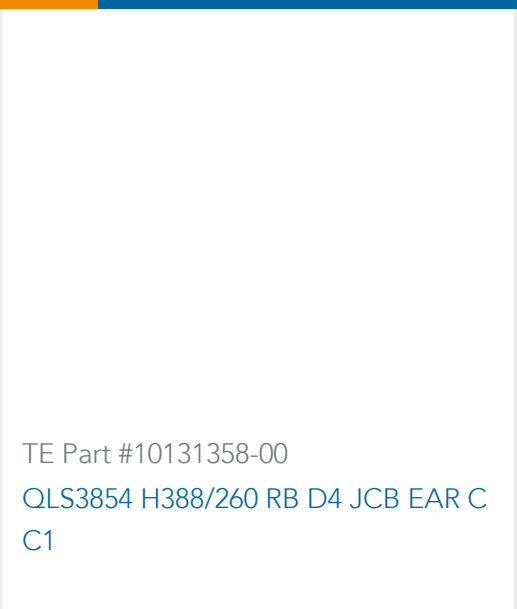
TE Part #2029030-3
3P MICRO MNL HDR ASY SR SIDE L



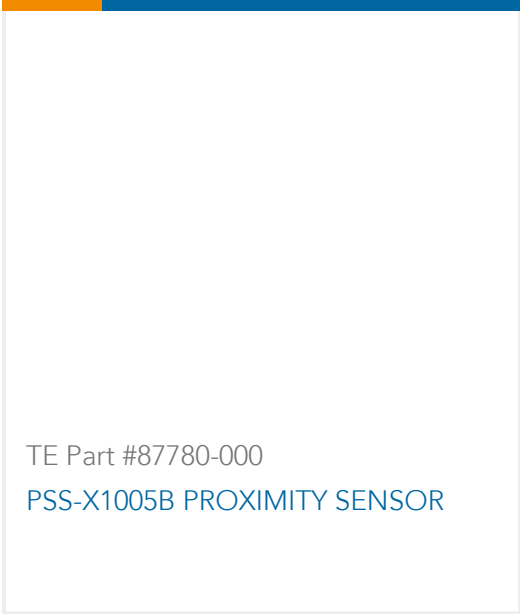
TE Part #2822352-2
070 TYPE RUBBER PLUG



TE Part #34822
TERMINAL,PG R 16-14HD 8



TE Part #10131358-00
QLS3854 H388/260 RB D4 JCB EAR C C1



TE Part #87780-000
PSS-X1005B PROXIMITY SENSOR

Documents

- CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-1414168-0_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-1414168-0_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-1414168-0_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 F Change Over 40A Zust. B

English



Power Relay F4, Mini ISO, Plug-In

English

Product Specifications

Definitions General Purpose Relays

English