1416010-1 ✔ ACTIVE

High Current Relay HCR 150

TE Internal #: 1416010-1

Automotive High Current Relays, 12 VDC Coil Voltage, >50A, 1 Form A (NO), Resistor in Parallel, Monostable, DC, High Current Relay HCR 150

View on TE.com >

Relays, Contactors & Switches > Relays > Automotive Relays > Automotive High Current Relays

Rated Coil Voltage: **12 VDC**

High Current Automotive Relay Contact Current Class: **>50A**

High Current Automotive Relay Contact Arrangement: **1 Form A (NO)**

Coil Suppression: **Resistor in Parallel**

High Current Automotive Relay Coil Magnetic System: **Monostable, DC**

Features

Product Type Features

Product Designation	High Current Automotive Relays
Product Category	Electromechanical Relays
Relay Type	High Current Relay HCR 200
Product Classification	Relays - Automotive High Current Relays
Product Type	Relay

Electrical Characteristics

Current Rating (85°C)	130 A
Insulation Initial Dielectric Between Contacts and Coil	1000 Vrms
Insulation Initial Dielectric Between Coil/Contact Class	500 – 1000 V
Coil Power Rating (DC)	3900 mW
Insulation Initial Dielectric Between Open Contacts	1000 Vrms
Contact Limiting Making Current	300 A
Contact Limiting Continuous Current	180 A
Rated Voltage	12 VDC
Contact Limiting Breaking Current	300 A
Contact Switching Load (Min)	1000mA @ 5VDC
Rated Coil Voltage	12 VDC
Coil Suppression	Resistor in Parallel

High Current Automotive Relay Coil Magnetic System	Monostable, DC
High Current Automotive Relay Coil Resistance	37 Ω

Body Features

Weight	220 g[7.76 oz]

Contact Features

Terminal Type	Screw Terminals
Contact Base Material	Silver Alloy
High Current Automotive Relay Contact Current Class	>50A
High Current Automotive Relay Contact Arrangement	1 Form A (NO)

Mechanical Attachment

Mounting Type	Screw

Dimensions

Width Class (Mechanical)	30 – 40 mm
Height	45 mm[1.772 in]
Length Class (Mechanical)	>60mm
Length	74.2 mm[2.921 in]
Height Class (Mechanical)	40 – 50 mm
Width	40 mm[1.575 in]

Usage Conditions

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

Other

Mounting Brackets	With
High Power Relays (>75A)	Yes

Product Compliance

For compliance documentation, visit the product page on TE.com>

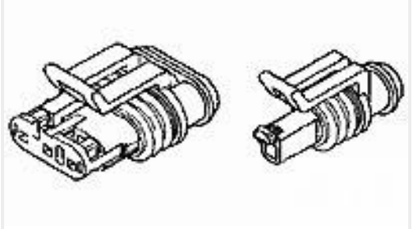
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2023 (235)

	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

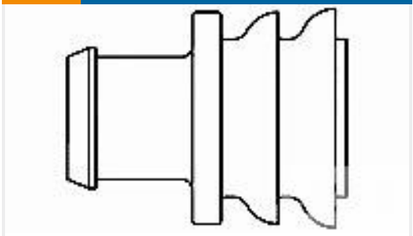
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

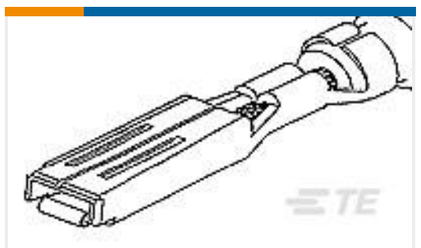


TE Part # 282080-1
AMP SUPERSEAL 1.5 SERIES 2P PL

TE Part # 58583-1
PROCRIMP HT&D SUPRSEAL 1.5 SER



TE Part # 281934-2
SINGLE WIRE SEAL



TE Part # 282110-1
MINI MIC RCPT CONTACT

Also in the Series | High Current Relay HCR 150

Automotive High Current Relays(5)

Customers Also Bought

TE Part #640931-1
RECEPT,PIDG FASTON 16-14 110

TE Part #1-967625-6
JUN-POW-TIM GEH 21P

TE Part #6-1437624-9
PKG90B1/4=KNOB PLASTIC 1/4 LEX

TE Part #CX7197-000
RHW-110/30-1200/ADH-0

TE Part #1-1393315-1
V23132B2002B200=HCR

TE Part #7-1618401-3
LEV200A4NAF01=Contactor, w/Coil Sup

TE Part #87798-000
PSS-X1005 PROXIMITY SENSOR

TE Part #CU2426-000
RAPID-44-D650-14

TE Part #DT062S-KIT-0002
DT 2 WAY PLUG KIT. CE05.

TE Part #FPP810B328
QLS3854 720 PC C8 AGC S PROD

Documents

Product Drawings

V23132A2001B200

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1416010-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1416010-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1416010-1_A.3d_stp.zip

English

Datasheets & Catalog Pages

Automotive Relay Application Notes

English

High Current Relay 150, High Current Devices, High Current Solutions

English

Product Specifications

Definitions General Purpose Relays

English

Product Environmental Compliance

Product Compliance

English

Product Compliance

English