



Relays, Contactors & Switches > Relays > Automotive, Truck, Bus & Off-Road Relays > High Current Automotive Relays



Rated Coil Voltage: **24 VDC**
Contact Current Class: **>50A**
Contact Arrangement: **1 Form X (NO, Bridging)**
Coil Magnetic System: **Monostable, DC**
Coil Resistance: **141 Ω**

Features

Product Type Features

Product Designation	High Current Automotive Relays
Product Category	Electromechanical Relays
Relay Type	High Current Relay HCR 150
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)	4100 mW
Insulation Initial Dielectric Between Open Contacts	1000 Vrms
Contact Limiting Making Current	300 A
Contact Limiting Continuous Current	180 A
Rated Voltage	24 VDC
Contact Limiting Breaking Current	300 A
Contact Switching Load (Min)	1000mA @ 5VDC
Rated Coil Voltage	24 VDC
Coil Magnetic System	Monostable, DC
Coil Resistance	141 Ω

Body Features



Weight	220 g[7.766 oz]
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Contact Features

Terminal Type	Screw Terminals
Contact Base Material	AgSnO2
Contact Current Class	>50A
Contact Arrangement	1 Form X (NO, Bridging)

Mechanical Attachment

Mounting Type	Screw
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Dimensions

Width Class (Mechanical)	30 – 40 mm
Height	45 mm[1.772 in]
Length Class (Mechanical)	>60mm
Length	74.2 mm[2.92 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
Environmental Category of Protection	RTIII

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: JAN 2019 (197) Candidate List Declared Against: JAN 2018 (181)
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

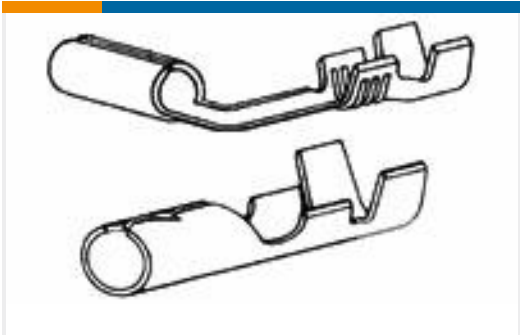
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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

Also in the Series | High Current Relay HCR 150



High Current Automotive Relays(5)

Customers Also Bought



TE Part #62734-2
SHPL REC IS 18-14 .
018SPBR



TE Part #2141028-1
FUSE BOX HSG,HARD
WIRED

Documents

Product Drawings
V23132B2002B200=HCR

English

CAD Files



Customer View Model

[ENG_CVM_CVM_1-1393315-1_B.2d_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1-1393315-1_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-1393315-1_B.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 Relays](#)

English