

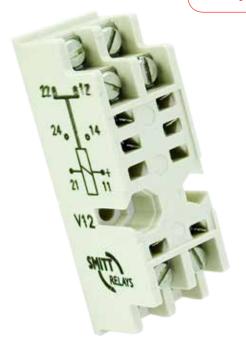


# V12 socket - Screw terminal, wall mount,

**Datasheet** 

V12 socket is obsolete, replaced by V16 socket





### Description

The V12 is a surface / wall mount relay socket. The V12 socket has one screw terminal per relay contact suitable for two wires up to 2.5 mm², so looping/daisy chaining can be done on the socket and no external connector or terminal is needed.

Optional 35 mm rail mount with A109 rail clip.

The V12 has 4 kV insulation between relay coil and contacts.

To prevent fault relay placement the socket can be equipped with mechanical keying to accept only designated identical keyed relays.

### **Application**

The V12 relay socket is suitable for general railway applications with a space saving design. Installation and replacement of relays is made easy and cost saving. No maintenance is required for the user.

Suitable for the CU-U200/300-U relay series only.

#### i catules

- Surface / wall mount
- Optional 35 mm rail mount with A109 rail clip
- Sturdy screw terminals
- 4 kV insulation between coil and contacts
- Space saving
- Suitable for CU-U200/300-U relays only
- Up to two wires of 2.5 mm<sup>2</sup> per connection terminal
- Positive mechanical keying
- Bifurcated female receiver for tight grip relay pin
- Clear terminal ID

#### **Benefits**

- Proven reliable
- Long term availability
- Easy to maintain
- Low life cycle cost
- No maintenance

### Railway compliancy

- EN 50155 Electronic equipment used on rolling stock for railway applications
- IEC 60571 Electronic equipment used on railway vehicles
- NF F 16-101/102, TS 45545-2 Fire behaviour - Railway rolling stock
- IEC 60715 Dimensions of low voltage switchgear and controlgear
- NF F 62-002 On-off contact relays and fixed connections





# V12 socket Technical specifications









## **Technical characteristics**

Contacts

Contact rating

Dielectric strength

Protecting category

Mounting

Max. ambient temperature

Weight

Dimensions

Wire size

Material

Socket contacts

Max. torque value mounting screws

Max. torque value terminal screws

Accessories

Without contacts 11 and 21 (for CU-U200/300-U)

8 A

IEC 60255 / IEC 60571, 2500 V, 50 Hz, 1 min

4 kV between terminals and mounting plate

4 kV between relay coil and contacts

IEC 60529, IP10

Surface / wall mounting

35 mm rail mounting with A109 rail clip

80 °C

V12, 32 g

A109, 5 g

65 x 20 x 23 mm

2.5 mm<sup>2</sup> maximum

Polyester

Screws

1 Nm

1 Nm

A104 Key receptacle

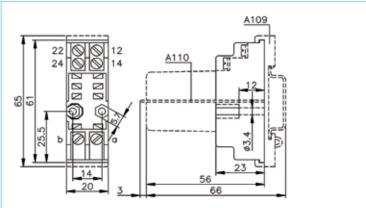
A109 Rail clip

A101 Retaining clip (low, locked in socket without relay)

A110 Retaining clip (low, not locked in socket without relay)

A020 Retaining clip (high)

# **Drawings & dimensions**



Dimensions in mm, tolerance ± 0.5 mm





# V12 socket Keying

# Mechanical keying relay and socket (optional)





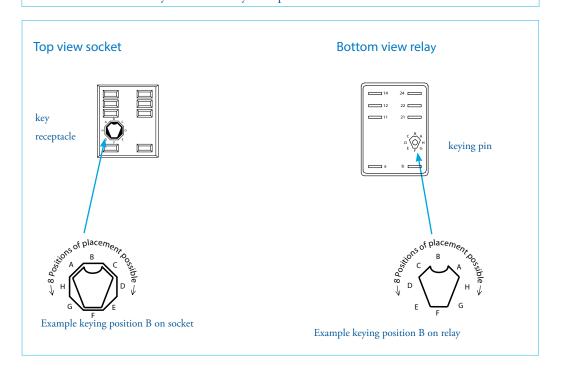
#### Function:

- To prevent wrong installation
- To prevent damage to equipment
- To prevent unsafe situations

Using keyed relays and sockets prevents a relay being inserted in a wrong socket. For example it prevents placing a 24 VDC relay in a 110 VDC circuit. Positive discrimination is possible per different funtion, coil voltage, timing, monitoring, safety and non-safety.

The CU-series relay socket keying option gives 8 possibilities. Upon ordering the customer simply indicates the need for the optional keying. Mors Smitt will assign a code to the relay and fix the pins into the relay. The sockets are supplied with loose key receptacles. Inserting the keys into the socket is very simple and self explaining.

Remark: sockets and relay shown are only examples.





# V12 socket Instructions

## Installation & inspection

### Installation

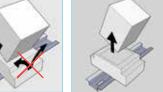
Before installation or working on the relay: disconnect the power supply first!

Install socket and connect wiring according to the terminal identification. Plug relay into the socket ensuring there is no gap between the bottom of relay and the socket. Reverse installation into the socket is not possible.

Use a retaining clip to ensure good connection if necessary.

### Warning!

- To remove relays from the socket, employ up and down lever movements. Sideway movement may cause damage to the coil wires.



When plugging the relay into the socket, the female bifurcated or trifurcated receivers will automatically cut through the corrosion on the pins and guarantee a reliable connection.

### Inspection

If the socket does not work after inspection of the correct wiring and relay connection, replace the unit with a similar model.

When returning products for investigation, please provide all information on the RMA form. Send defective products back to the manufacturer for repair or replacement. Normal wear and tear or external causes are excluded from warranty.





# **V12 socket**Ordering possibilities



Article nr	Code	Description
338001200	V12	Screw terminal relay socket
378690100	A104	Key receptacle
339851100	A109	Rail clip
329851010	A101	Retaining clip (low, locked in socket without relay)
329851040	A110	Retaining clip (low, not locked in socket without relay)
329900003	A020	Retaining clip (high)









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