V15 socket - Screw terminal, wall mount,

Datasheet

d LED

V15 socket is obsolete, replaced by V16-D socket

Features

- Surface / wall mount
- Optional 35 mm rail mount with A109 rail clip
- Sturdy screw terminals
- Back EMF protection diode
- LED indicator
- Space saving
- Suitable for all CU-U200-D relay series only
- Up to two wires of 2.5 mm² 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 - mounting rail

Description

The V15 is a surface / wall mount relay socket. The V15 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 V15 has a back EMF protection diode included, to prevent a voltage surge to protect connected electronics. Also a LED is included to show clearly if the coil is energized.

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

Application

The V15 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-D relays only.

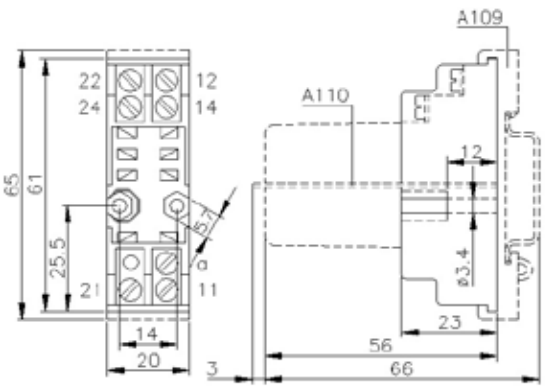
V15 socket
Technical specifications



Technical characteristics

Contact rating	8 A
Dielectric strength	IEC 60255 / IEC 60571, 2500 V, 50 Hz, 1 min
Protecting category	IEC 60529, IP10
Mounting	Surface / wall mounting
	35 mm rail mounting with A109 rail clip
Max. ambient temperature	80 °C
Weight	V15, 40 g
	A109, 5 g
Dimensions	65 x 20 x 23 mm
Wire size	2.5 mm² maximum
Material	Polyester
Electronic components	Back EMF protection diode BYW56 (+ at a)
Socket contacts	Screws
Max. torque value mounting screws	1 Nm
Max. torque value terminal screws	1 Nm
Accessories	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)

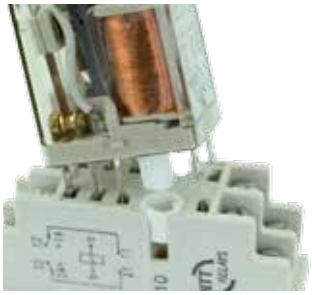
Drawing & dimensions



Dimensions in mm, tolerance ± 0.5 mm

V15 socket
Keying

Mechanical keying relay and socket (optional)



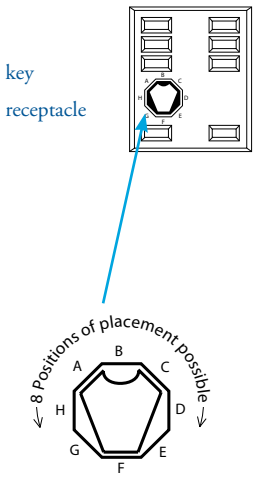
Function:
- To prevent wrong installation
- To prevent damage to equipment
- To prevent unsafe situations

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.

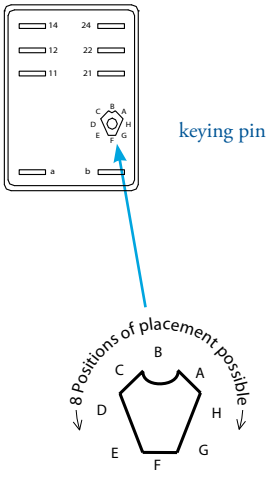
Remark: sockets and relay shown are only examples.

Top view socket



Example keying position B on socket

Bottom view relay



Example keying position B on relay

V15 socket
Instructions

Installation & inspection

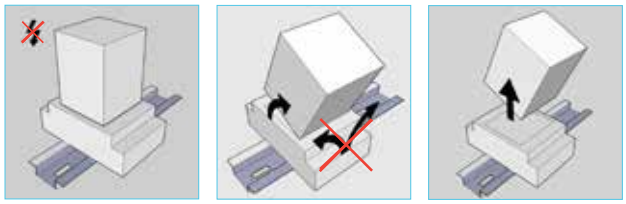
Installation

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 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.

V15 socket
Ordering possibilities


V15


A104


A109


A101


A110


A020

Article nr	Code	Description
Depending on operating voltage	V15	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)

Mors Smitt
A Wabtec Company

SERVING SAFETY

V15 socket -V1.1 Nov 2012

MS Relais SAS
Tour Rosny 2, Avenue du Général de Gaulle,
F - 93118 Rosny-sous-Bois Cedex, FRANCE
T +33 (0)1 4812 1440, F +33 (0)1 4855 9001
E sales@msrelais.com

Mors Smitt Asia Ltd.
807, Billion Trade Centre, 31 Hung To Road
Kwun Tong, Kowloon, HONG KONG SAR
T +852 2343 5555, F +852 2343 6555
E info@morssmitt.hk

Nieaf-Smitt B.V.
Vrieslantlaan 6, 3526 AA Utrecht,
NETHERLANDS
T +31 (0)30 288 1311, F +31 (0)30 289 8816
E sales@nieaf-smitt.nl

Mors Smitt Technologies Inc.
420 Sackett Point Road
North Haven, CT 06473, USA
T +1 (203) 287 8858, F +1 (888) 287 8852
E mstechnologies@msrelais.com

Mors Smitt UK Ltd.
Doulton Road, Cradley Heath
West Midlands, B64 5QB, UK
T +44 (0)1384 567 755, F +44 (0)1384 567 710
E info@morssmitt.co.uk

www.morssmitt.com