

V93 socket - Screw terminal, wall/rail mount

Datasheet

8 pole



Features

- Surface / wall and 35 mm rail mount
- Sturdy screw terminals
- No internal solderings / connections
- Touch proof IP20 or increased protection with optional adapter
- Height saving 35 mm rail mounting
- Suitable for all D8 and KDN relays
- Up to two wires of 2.5 mm² per connection terminal (7.5 mm wide tabs)
- Positive mechanical keying
- Trifurcated female receiver for tight grip relay pin
- Clear terminal ID

Benefits

- Proven reliable
- Long term availability
- Easy to maintain
- Low life cycle cost

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, EN 45545-2 Fire behaviour - Railway rolling stock
- IEC 60715 Dimensions of low voltage switchgear and controlgear - mounting rail
- NF F 62-002 On-off contact relays and fixed connections

Description

The V93 is a surface / wall and 35 mm rail mount relay socket. The V93 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.

The V93 relay socket has no internal connections which makes it highly reliable.

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

Clear UP ↑ arrow for correct 35 mm rail mounting.

Application

The V93 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 all D8 and KDN relay series.



V93 socket

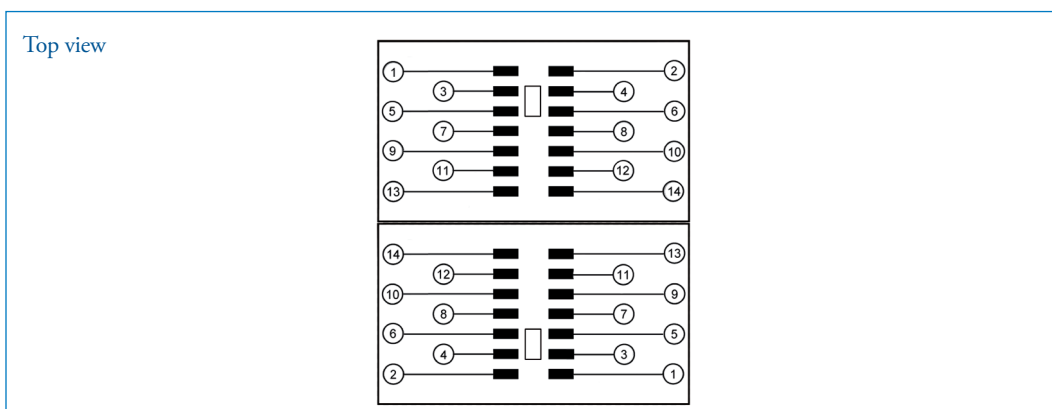
Technical specifications

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Technical characteristics

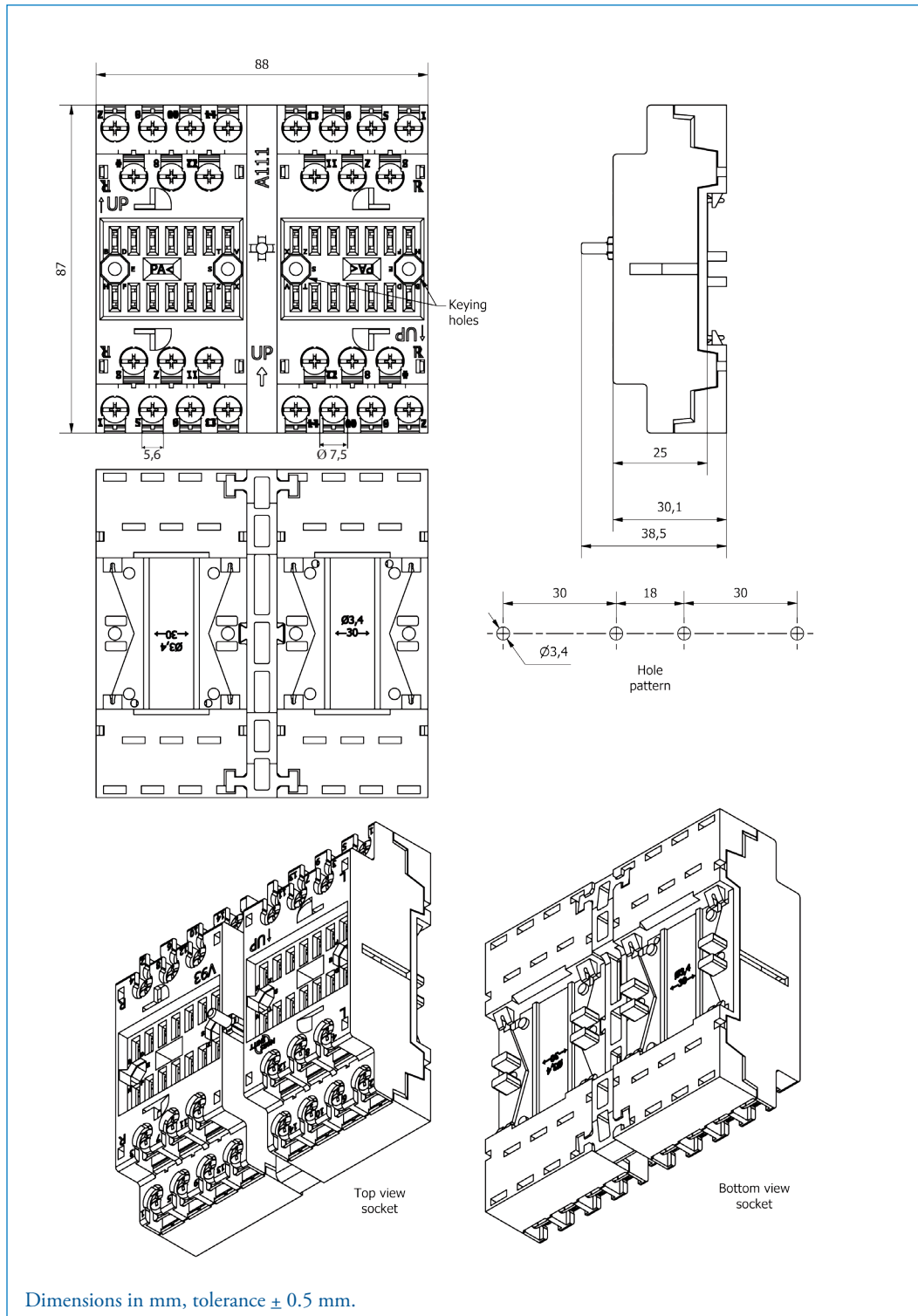
Contact rating	10 A
Dielectric strength	IEC 60255 / IEC 60571, 3500 V, 50 Hz, 1 min
Protecting category	IEC 60529, IP20 (or increased protection with optional adapter)
Mounting	Surface / wall and 35 mm rail
Max. ambient temperature	80 °C
Weight	248 g
Dimensions	87 x 88 x 30 mm
Wire size	2.5 mm ² maximum
Material	Polyamide 66, 30% glass
Socket contacts	Screw M3.5
Max. torque value mounting screws	1 Nm
Max. torque value terminal screws	1 Nm
Accessories	A104 (Key receptable)

Connection diagram



V93 socket

Drawings & dimensions



V93 socket

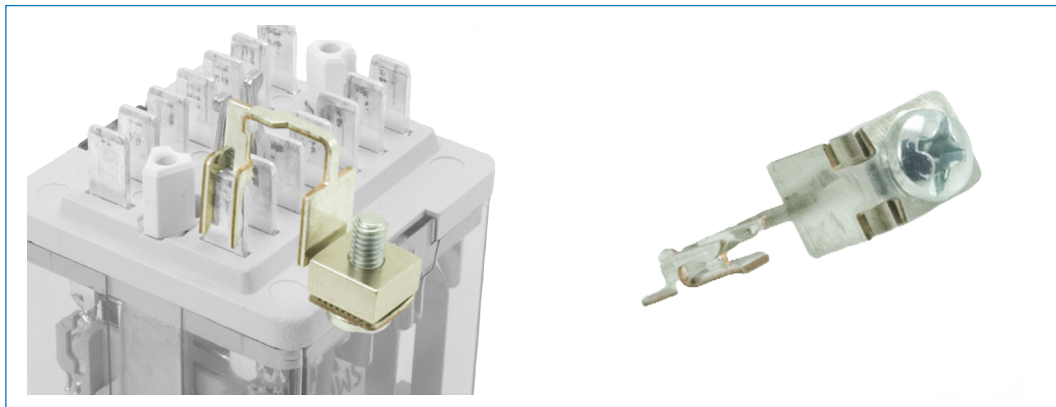
Technical specifications

V23 Screw terminal relay socket for 4 contact relays (all D-U relay series).



For details see datasheet V23

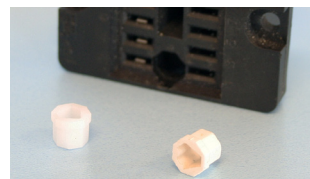
Tri-furcated female receiver for tight grip relay pin



V93 socket

Keying

Mechanical keying relay and socket (optional)



Function:

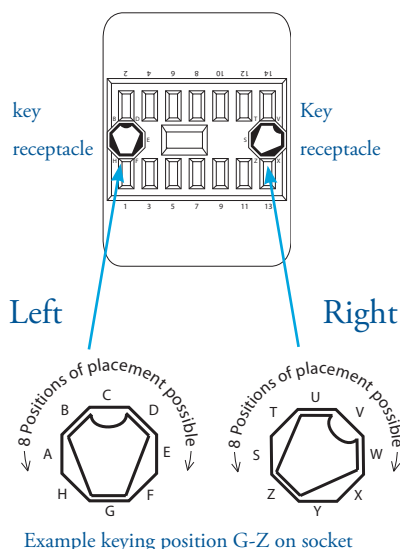
- To prevent wrong installation
- To prevent damage to equipment
- To prevent unsafe situations

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 function, coil voltage, timing, monitoring, safety and non-safety.

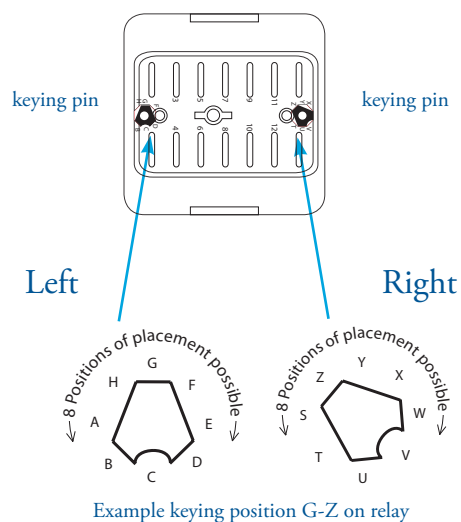
The D-relay socket keying option gives $8 \times 8 = 64$ possibilities. Upon ordering the customer simply indicates the need for the optional keying. Mors Smitt will assign a code to the relay and fix the pins into the relay. The sockets are supplied with loose key receptacles. Inserting the keys into the socket is very simple and self explaining.

Remark: Sockets and relay shown are only examples.

Top view socket



Bottom view relay



V93 socket

Instructions

Installation & inspection

Installation

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

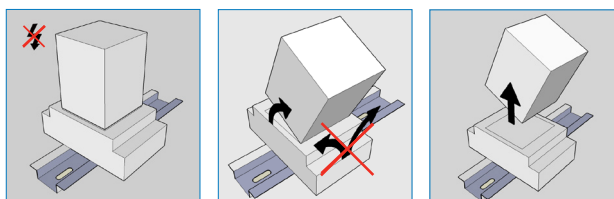
Install socket and connect wiring according to the terminal identification. Plug relay into the socket ensuring there is no gap between the bottom of relay and the socket. Reverse installation into the socket is not possible due to the mechanical blocking snap-lock feature.

No external retaining clip needed as the 'snap-lock' will hold the relay into the socket under all circumstances and mounting directions (according shock & vibration requirements IEC 61373, Category I, Class B, Body mounted). If regulations require an external retaining clip, this is available as well. For more information see the datasheet of the retaining clips.

When rail mounting is used, always mount the socket in the direction of the UP arrow.

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 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.



V93 socket

Ordering possibilities



V23



V93



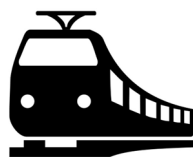
A104



A031

Article nr	Code	Description
338000580	V23	Screw terminal relay socket
338003930	V93	Screw terminal relay socket for 8 contact relays
378690100	A104	Key receptacle
501441017	A031	Protection cover for increased protection





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