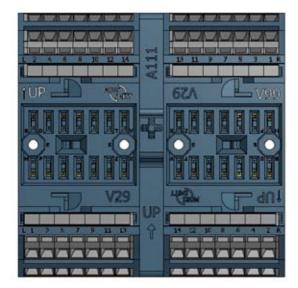




V99 socket - Spring terminal, wall / rail **Datasheet** mount, 8 pole



Description

The V99 is a surface / wall and 35 mm rail mount relay socket. The V99 socket has two spring terminals per relay contact, so looping/daisy chaining can be done on the socket and no external connector or terminal is needed.

The spring terminal makes quick connection possible by pressing the spring with a flat-bladed screwdriver and inserting the stripped wire. Solid and (fine) stranded wire up to 2.5 mm² can be inserted. This quick & easy wiring method saves up to 75% wiring time compared with classic technology, like screw terminals.

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 V99 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.

Features

- Surface / wall and 35 mm rail mount
- Sturdy spring terminals
- No internal solderings / connections
- Touch proof IP20
- Height saving 35 mm rail mounting
- Suitable for all D8 and KDN relay
- Up to two wires of 2.5 mm² per relay contact
- Easy & quick installation (up to 75% reduction of wiring time)
- · 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
- 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 switch gear and control gear
- NF F 62-002 On-off contact relays and fixed connections

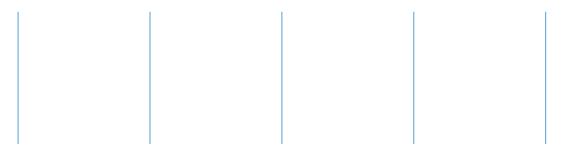






V99 socket

Technical specifications



Technical characteristics

Contact rating 10 A

Dielectric strength IEC 60255 / IEC 60571, 3500 V, 50 Hz, 1 min

Protecting category IEC 60529, IP20

Mounting Surface / wall and 35 mm rail

Max. ambient temperature 80 °C Weight 186 g

Dimensions $87 \times 88 \times 34.1 \text{ mm}$ Wire size $0.08 - 2.5 \text{ mm}^2$

Wire stripping length 6 mm

Material Polyamide 66, 30% glass

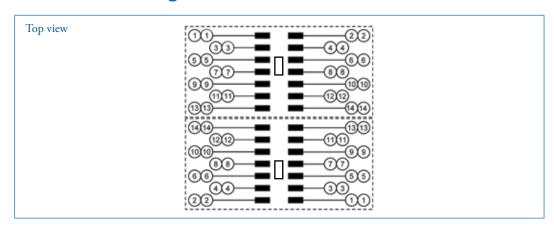
Socket contacts

Max. torque value mounting screws

Spring terminal
1.0 Nm

Accessories A104 Key receptacle

Connection diagram



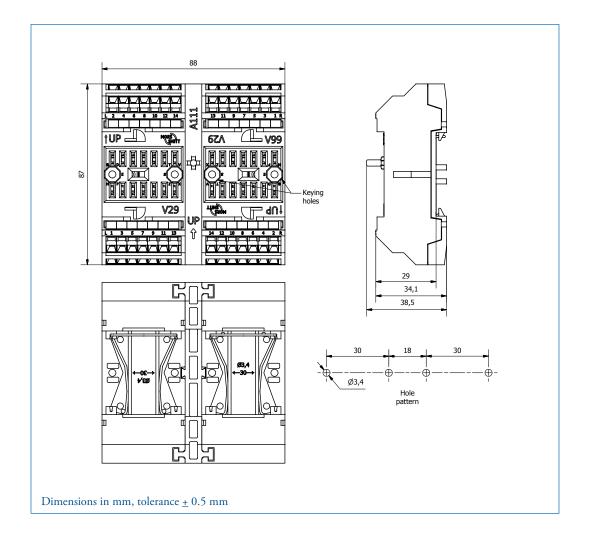






V99 socket

Drawings & dimensions









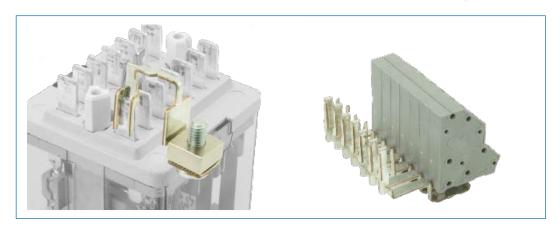
V99 socketTechnical specifications





For details see datasheet V29.

Tri-furcated female receiver for tight grip relay pin









V99 socket Keying

Mechanical keying relay and socket (optional)





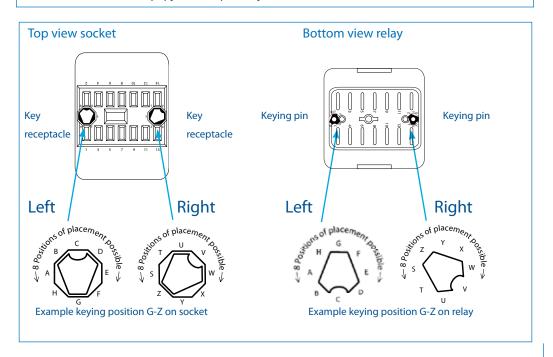
Function:

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

Use 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-series 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: socket and relay type are only examples.









V99 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.

- 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

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.







V99 socketOrdering possibilities



Article nr	Code	Description
338003950	V99	Spring terminal relay socket for 8 contact relays
338000610	V29	Spring terminal relay socket
378690100	A104	Key receptacle













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