V17 socket - Spring terminal, wall /rail mount

Datasheet

Features

- Surface / wall and 35 mm rail mount
- Spring clamp terminals
- Integrated retaining clip
- Space saving
- Suitable for all CU relay series
- Up to two wires of 2.5 mm² per connection terminal
- Positive mechanical keying
- Optional diode or double zener protection device
- 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

Description

The V17 is a surface / wall and 35 mm rail mount relay socket. The V17 socket has two spring terminals per relay contact suitable for two stripped wires up to 2.5 mm², so looping/daisy chaining can be done on the socket and no external connector or terminal is needed.

Quick connection by pressing the spring terminal with a flat-bladed screw driver and inserting the stripped wire.

Equipped with an integrated retaining clip.

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

Application

The V10 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.

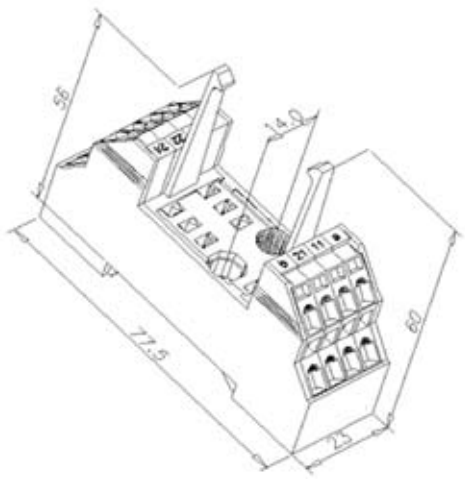
Suitable for all CU relay series.

V17 socket
Technical specifications

Technical characteristics

Contact rating	8 A
Non-repetitive peak current	NF F 62 002, 200 A / 10 ms
Dielectric strength	IEC 60255 / IEC 60571, 2500 V, 50 Hz, 1 min 2500 V between terminals and mounting plate
Protecting category	IEC 60529, IP20
Mounting	Surface / wall mounting or 35 mm rail mounting
Max. ambient temperature	80 °C
Weight	48 g
Dimensions	65 x 20 x 23 mm
Wire size	0.8 - 2.5 mm²
Wire stripping length	6 mm
Material	Polyamide 66 , 30% glass
Electronic components	Back EMF protection diode BYW56 (+ at a) (optional) Double zener diode 1.5KE...CA (optional)
Max. torque value mounting screws	0.6 Nm
Accessories	A104 key receptacle A171 CU extractor

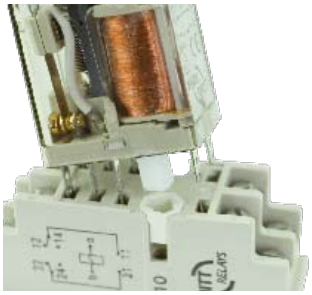
Drawings



Dimensions in mm, tolerance ± 0.5 mm

V17 socket
Keying

Mechanical keying relay and socket (optional)



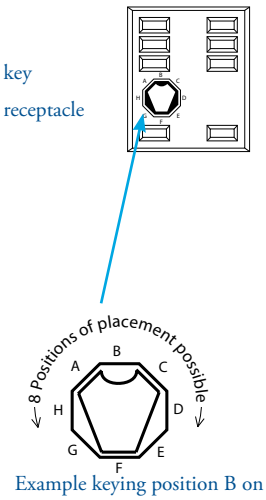
Function:
- To prevent wrong installation
- To prevent damage to equipment
- To prevent unsafe situations

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.

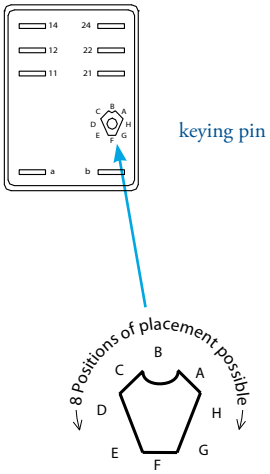
Remark: sockets and relay shown are only examples.

Top view socket



Example keying position B on socket

Bottom view relay



Example keying position B on relay

V17 socket
Instructions

Installation & inspection

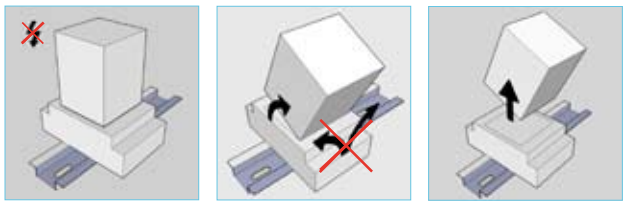
Installation

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. Don't install the socket with the pinning on top of the rail (make sure "b 21 11 a" is not upside down).

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.

V17 socket
Ordering possibilities

V17

A 104

A171

Article nr	Code	Description
338001400	V17	Cage clamp terminal relay socket
338001401	V17-D	Cage clamp terminal relay socket with diode
338001402	V17-Q1	Cage clamp terminal relay socket with double zener (nom. voltage relay: 12 V - 30 V)
338001403	V17-Q2	Cage clamp terminal relay socket with double zener (nom. voltage relay: 30 V - 45 V)
338001404	V17-Q3	Cage clamp terminal relay socket with double zener (nom. voltage relay: 45 V - 65 V)
338001405	V17-Q4	Cage clamp terminal relay socket with double zener (nom. voltage relay: 65 V - 90 V)
338001406	V17-Q5	Cage clamp terminal relay socket with double zener (nom. voltage relay: 90 V - 150 V)
378690100	A104	Key receptacle
502110000	A171	CU extractor

Mors Smitt
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