

Assembly instructions
Single-pole serial terminals RSA

SINGLE-POLE SERIAL TERMINALS RSA

PRODUCT LIST

Single-pole serial terminals RSA

RSA 2,5 A; RSA 4 A; RS 4; RSA 6 A; RSA 10 A; RSA 16 A; RSA 35 A; RSA 70 A

PRODUCT GROUP DESCRIPTION

Single-pole serial terminals RSA suit for all power panels with conductor diameters up to 95 mm². Excellent insulation properties are ensured by a housing made of polyamide (PA). This product group excel in a large range of accessories. We offer terminals in single-pole option with 12 basic color options. Serial terminals RSA are tested pursuant to IEC 60947-7-1.

SAMPLE OF SINGLE-POLE SERIAL TERMINALS RSA

Color options of RSA terminals



OPERATIONAL CONDITIONS

Environment and pollution level:

Terminals can be assembled in accordance with ČSN 33 2000-5-51 in the environment with external effects AB7, AF2, pollution level 2, in which usually only non-conducting pollution occurs. Possible temporary occurrence of conductivity due to condensation is taken into account.

Flammability:

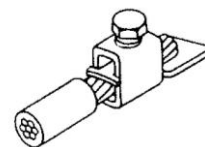
The housing material is made of PA 6 material with V0 flammability pursuant to UL 94.

Temperature:

Terminals can be operated at permanent operational temperature from -40 °C to +105 °C.

FIXING UNIT

Screw fixing unit – with indirect screw pressure on the conductor



CONNECTION OF CONDUCTORS

These terminals allows the connection of solid conductor, solid segmental conductor as well as flexible segmental conductor. No sleeve is necessary in case the flexible conductor is used. Terminals suit for connection of copper as well as aluminum conductors.

NECESSARY ASSEMBLY TOOLS:

Hex key to tighten screws fixing the conductor in the terminal



Cross-head screw PH to tighten screws fixing the conductor in the terminal



Flat tip screwdriver for terminal removal from the bar



Pliers to assembly the link



Product assembly (Assembly procedure)

1. Strip the conductor of the length stated in the [catalogue](#).
2. Fix the terminal on the TH bar.
3. Use a hex key or a screwdriver (based on the terminal type) of size see [catalogue](#), release the screws for conductor assembly.
4. Insert the stripped conduction in the terminal.
5. Tighten the screws of conductor fixation with a torque as per [catalogue](#).
6. Lock the terminals tot the TH bar with terminal clamps, see the chapter Terminal clamps.

NOTES

It is possible to mount on TH 35 or TH 15 bar (based on the terminal type). Dismount RSA terminal using the flat tip screwdriver.

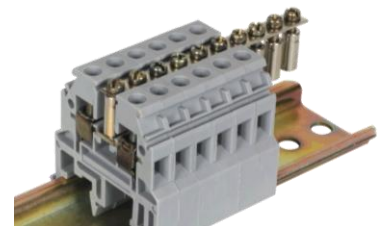
ACCESSORIES

1. [Top link](#)
2. [Flat link](#)
3. [Side link - rack](#)
4. [RSA rack](#)
5. [Measuring slot](#)
6. [Short-circuit link](#)
7. [Cover](#)
8. [Side cover](#)
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1. **TOP LINK** – It is used with RSA 4 A, RSA 6 A and RSA 10 A terminals. Links are available in options with 2 to 10 poles based on the terminal type. It is used to connect the same type terminals Top links enable the assembly, with no need to adapt the housing.

Top link assembly (Assembly procedure)

1. Insert the top link in central holes of housing of adjacent terminals of the same type.
2. Use the screwdriver to screw the link to the terminal bridge.
3. In order the link works reliably it is important to firmly tighten every screw on the link with a torque $0,5 \div 2,5$ Nm.
4. In case of two or more linked terminal blocks side by side a central partition shall be used.



NOTES

A covering label can be used against any random contact.

- 2. FLAT LINK** – It is designed for all types of RSA terminals. Links are available in options with 2 to 10 poles based on the terminal type. It is used to connect the same type terminals.

Flat link assembly (Assembly procedure)

1. Use the pliers (in EB offer) to cut a hole (a partition) in the terminal housing, see the figure.
2. Insert the flat link in central holes of housing of adjacent terminals of the same type.
3. Use the screwdriver to screw the link to the terminal bridge.
4. In order the link works reliably it is important to firmly tighten every screw on the link with a torque $0,5 \div 2,5$ Nm, based on the terminal type.
5. In case of two or more linked terminal blocks side by side a central partition shall be used. In case a connected terminals block and one unlinked terminal are used, the use of central partition is not necessary.



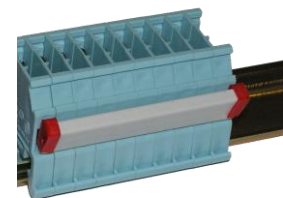
NOTES

Flat links are always mounted following the housing adaptation (partition cutting). For ex. if a double link is used it is necessary to adapt only one housing in order to mount a link; partitions towards unconnected adjacent terminals shall not be removed due to value reduction of air distance. A covering label can be used against any random contact.

- 3. SIDE LINK - RACK** - available only for RSA 4 A type with 10 poles option. It is used to connect the same type terminals. Covered links are protected with a plastic against any random contact.

Racks assembly (Assembly procedure)

1. First, use a hex key or a screwdriver (based on the terminal type) of size see [catalogue](#), release the screws for rack assembly.
2. Fix the rack in the hole for conduction with its plastic part up.
3. Tighten the rack with a screw, sizes see [catalogue](#) with defined torque, see [catalogue](#) for the conductor tightening.
4. If you need to shorten the rack, remove first red side covers, then remove the rack from the plastic. Use scissors/knife to shorten the rack for necessary size. Then cut the plastic part for the rack size. Insert the rack into the shortened plastic part and cover it with red side covers on both sides.
5. If you wish to insert the conductor into the fixing unit with rack, insert this conductor below the rack.



4. RSA RACK - it is designed for RSA 2,5 A and for RS 4 terminals. It is used to connect the same type terminals. Racks are made in 2,3 and 4times options.

EURO D4-Q4-MINI 4-RS 4 RACK- it is designed for RS 4 terminals. It is used to connect the same type terminals. Racks are made in 2,3 and 24times options.

Rack assembly (Assembly procedure)

1. First, insert the rack from above into both terminals to the spring.
2. Then insert the rack between the spring and the electric conductive bridge.



NOTES

Use a screwdriver to dismount racks. Racks can be put on each other, thus more than 4 terminals can be connected. In case of any rack adaptation (shortening, side covers not used), the protection against any random touch is reduced.

5. MEASURING SLOT - available for all types of terminals except for RSA 2,5 A and RSA 70 A. It is used to fix a measuring device. There is 4 mm hole in the slot. Measuring slots, except for RS 4 type, are used as a holder for assembly of below mentioned short-circuit link.

Measuring slot assembly (Assembly procedure)

1. Put the flat tip screwdriver on the measuring slot, see the fig.
2. Then put the measuring slot into the central hole of the terminal bridge using a flat tip screwdriver, see the fig. And tighten with a torque 0,5 Nm.
3. Screw the slot to the terminal bridge.



NOTES

A covering label can be used against any random contact.

6. SHORT-CIRCUIT LINK - available for RSA 4 A, RS 4, RSA 6 A terminals. It is used to temporarily connect two adjacent terminals of the same type.

Short-circuit link assembly (Assembly procedure)

1. Follow the procedure to mount the measuring slot in two adjacent terminals.
2. Take the short-circuit link and insert it in holes of measuring slots from the top, see the fig.



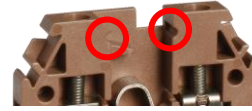
NOTES

Two above mentions measuring slots shall be used for the assembly.

7. **COVER** – available for all types of RSA terminals, except for RSA 2,5 A. It is used to cover terminals in case the top link is used or the measuring slot is kept. Covers are marked based on the type with safety symbols.

Cover assembly (Assembly procedure)

1. Put the cover in upper terminal ends, see the fig.



8. **SIDE COVER** - available only for RSA 35 A type. It is used to secure IP 20, in case of connection of 10 mm² diameter conductor or smaller.

Side cover assembly (Assembly procedure)

1. First, insert the cover into the lower part of the hole for the conductor and then click it into the upper groove.
2. Push the hole cover until you hear a click in the terminal groove.
3. Then insert the stripped conduction in the terminal through this cover.



9. **LABEL CARRIER** – it is used to mark a set of terminals, or other devices placed on TH bar.

Label carrier assembly (Assembly procedure)

1. First, stick the prepared description on the upper carrier part.
2. Then take the carrier and clip it on TH bar.



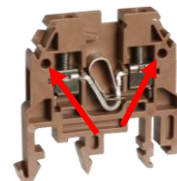
NOTES

Label carrier can be clipped on TH 35 and TH 15 bars.

10. **MIDDLE AND TERMINAL PARTITION** – Terminal partitions are used to close the terminals and ensure the protection of life parts. The middle partition is used to separate two adjacent terminals and to prolong the air distance among life parts. Partitions are available in all 12 basic colors.

Partition assembly (Assembly procedure)

1. First, take the terminal and related partition.
2. Then click the partition on the front terminal part, see the fig.
3. Then click the terminal with the partition on the TH bar.



11. DIVISIBLE MARKING TAPES EB - The tapes are available in lengths of up to 10 labels based on type, they can be broken in various sections.

EB labels assembly (Assembly procedure)

1. Separate labels by breaking them. A group (series) of labels can be divided for the specific number of terminals that does not need to be divided.
2. Clip the labels on side hole in the terminal.
3. Description can be made using a Plotter or through <https://eshop.elektrobecov.cz/e-popisky.html>

12. MULTI-CARDS - Individual labels are offered in plates with 20 to 50 pieces, based on the type.

Multi-cards assembly (Assembly procedure)

1. Separate labels can be divided by circular movement.
2. Clip the labels on side hole in the terminal.
3. Description can be made using a Plotter or through <https://eshop.elektrobecov.cz/e-popisky.html>

ECOLOGIC DISPOSAL

Products as well as packages are made of materials that can be recycled at the service life end. A recycling fee is separately accounted for some products pursuant to the Act No. 542/2020 Coll. on products with service life end.

Metal and plastic parts can be separated and materially used in accordance with the Act No. 541/2020 Coll. as amended.

Packages conform to conditions for packages launching at the market defined in the Act No. 477/2001 Coll. as amended, and are made of 100% recycled materials. Disposal or other packaging material use is ensured at the collective system EKO-KOM, client Number EK-F00020549.



Basic information

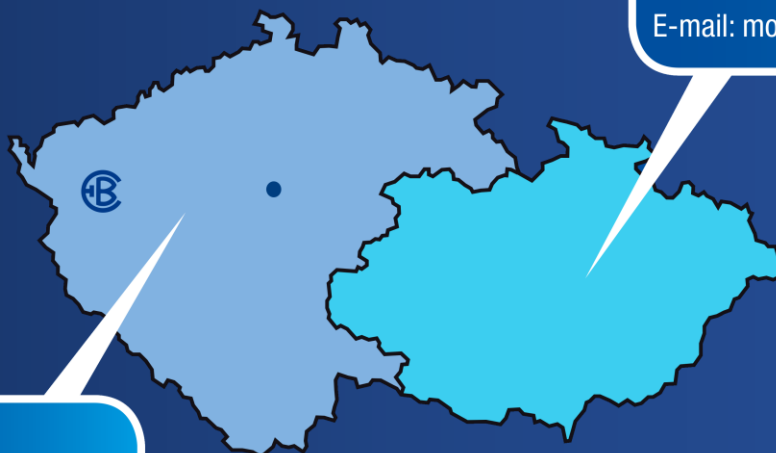
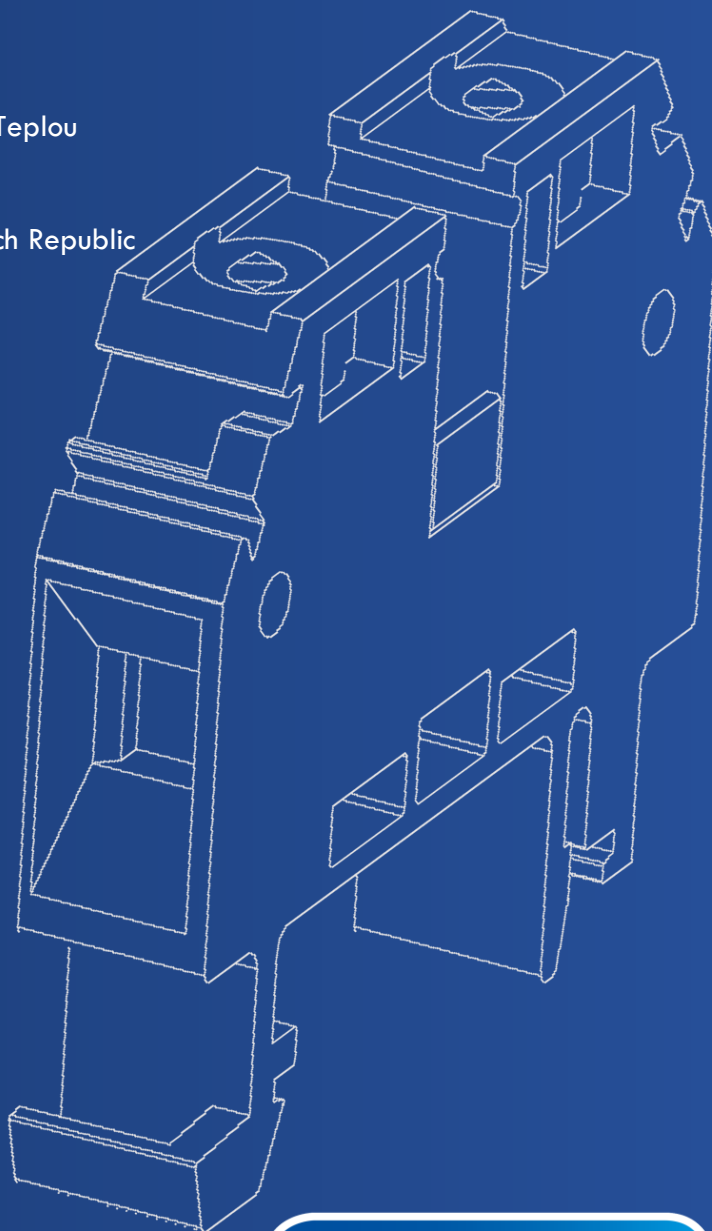
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