

**RIC20-200-SR/DC110V**  
2 pole | 20 A | 7 kW | DC-5 | 4 A 110 V DC | TVS suppressor



|                         |                              |
|-------------------------|------------------------------|
| <b>Control circuit</b>  |                              |
| Nominal voltage         | see table product references |
| Operating voltage range | 0.70 ... 1.25 U <sub>N</sub> |
| Pick-up voltage         | ≤ 0.70 U <sub>N</sub>        |
| Release voltage         | ≥ 0.1 U <sub>N</sub>         |
| Pick-up time            | 15 ... 45 ms                 |
| Release time            | 20 ... 50 ms                 |
| Power consumption DC    | 2.6 W                        |
| TVS Diode type          | Bidirectional surge TVS      |
| TVS Diode failure mode  | defined short cut            |

|                                              |              |
|----------------------------------------------|--------------|
| <b>Insulation</b>                            |              |
| Rated insulation voltage                     | 440 V        |
| Rated impulse withstand voltage open contact | 4 kV / 1 min |
| Pollution degree                             | 3            |
| Overvoltage category                         | III          |
| Clearance of open contact                    | 3.6 mm       |

|                                                |                                                                      |
|------------------------------------------------|----------------------------------------------------------------------|
| <b>Wiring</b>                                  |                                                                      |
| Contact type control / main circuit            | Screw connection, M3 / M3.5                                          |
| Conductor cross section control / main circuit | 2.5 mm <sup>2</sup> / 6 mm <sup>2</sup> , use copper conductors only |

|                                             |                               |
|---------------------------------------------|-------------------------------|
| <b>Housing and environmental conditions</b> |                               |
| Storage temperature (no ice)                | -40 ... 80 °C                 |
| Spacer                                      | Integrated                    |
| Operation temperature                       | -40 ... 70 °C                 |
| Ingress Protection                          | IP 20                         |
| Weight                                      | 135 g                         |
| Housing material                            | PA 66                         |
| Dimensions                                  | see fig. 3                    |
| Mounting position                           | see installation instructions |

|                                                                    |                     |            |
|--------------------------------------------------------------------|---------------------|------------|
| <b>Product references</b>                                          |                     |            |
| <b>Description</b>                                                 | <b>Type</b>         | <b>110</b> |
| 2 NO                                                               | RIC20-200-SR/DC...V | ✓          |
| Other voltages on request. Please contact support@comatreleco.com. |                     |            |
| «...» List control circuit voltage to complete product references. |                     |            |

|                    |                                                |
|--------------------|------------------------------------------------|
| <b>Accessories</b> |                                                |
| End covers         | RIC-EK-11 (BAG 25 PCS), RIC-EK-23 (BAG 10 PCS) |
| Busbar             | RIC-NS-1-1-R, RIC-PS-1-2-R                     |
| Sealing cover      | RIC-SEAL20 (BAG 10 PCS)                        |

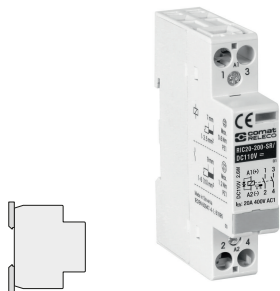


fig. 1. Wiring diagram

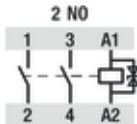


fig. 2. DC load limit curve

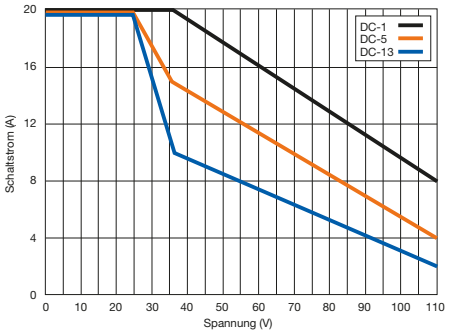
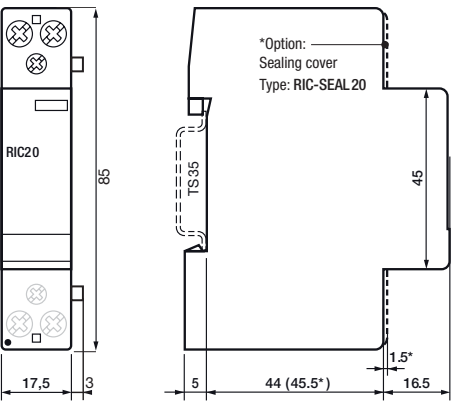


fig. 3. Dimensions (mm)



**Technical approvals, conformities**

Standards IEC/EN 60947  
Railway EN 50155; EN 45545-2  
Approvals