RUCT + GUC11S-V0



- · Relays designed for continuous operation*
- 35 mm rail mount acc. to EN 60715
- Compliance with standards: EN 45545-2 (category EL10, requirement R26 flammability class V-0 acc. to EN 60695-11-10); EN 61373 category 1, class B (mechanical shock and vibration resistance); EN 50155; EN 60077-1; EN 61810-1
- Recognitions, certifications, directives: recognitions RUCT, RoHS,

Contact data

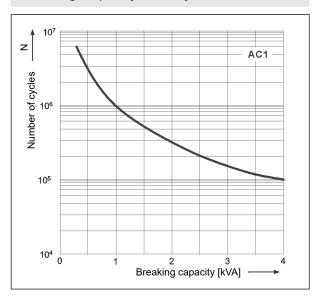
| Contact data | | CE THE CIR | | |
|------------------------------------|----------|---|--|--|
| Number and type of contacts | | 3 CO, 3 NO | | |
| Contact material | | AgNi | | |
| Rated / max. switching voltage | AC | 230 V / 250 V | | |
| Min. switching voltage | | 5 V | | |
| Rated load | AC1 | 16 A / 250 V AC | | |
| | DC1 | 16 A / 24 V DC (see Fig. 3) | | |
| Min. switching current | | 5 mA | | |
| Max. make current | | 40 A | | |
| Rated current | | 16 A | | |
| Max. breaking capacity | AC1 | 4 000 VA | | |
| Min. breaking capacity | | 0,3 W | | |
| Contact resistance | | ≤ 100 mΩ | | |
| Max. operating frequency | | | | |
| at rated load | AC1 | 1 200 cycles/hour | | |
| • no load | | 12 000 cycles/hour | | |
| Coil data | | , | | |
| Rated voltage | DC | 24 , 110 ∨ 0 | | |
| Must release voltage | | 24, 110 V € ≥ 0,1 U _n | | |
| Operating range of supply voltage | | 0,71,25 Un EN 50155 see Table 1 | | |
| Must operate voltage | | ≤ 0,7 U _n | | |
| Rated power consumption DC | | 1,7 W reinforced version | | |
| · | | 1,7 VV Territorced Version | | |
| Insulation according to EN 60664-1 | | | | |
| Insulation rated voltage | | 250 V AC | | |
| Rated surge voltage | | 4 000 V 1,2 / 50 μs | | |
| Overvoltage category | | III | | |
| Insulation pollution degree | | 2 | | |
| Flammability class | | V-0 UL 94, EN 60695-11-10 | | |
| Dielectric strength | | | | |
| between coil and contacts | | 2 500 V AC type of insulation: basic | | |
| contact clearance | | 1 500 V AC type of clearance: micro-disconnection | | |
| | | with contact gap ≥ 0,4 mm | | |
| • pole - pole | | 2 500 V AC type of insulation: basic | | |
| | earance | ≥ 4 mm | | |
| | eepage | ≥ 5 mm | | |
| <u>'</u> | earance | ≥ 6,3 mm | | |
| • cr | eepage | ≥ 8 mm | | |
| General data | | | | |
| Operating / release time • typica | l values | 20 ms / 15 ms | | |
| • max. | values | 25 ms / 20 ms | | |
| Electrical life | | | | |
| resistive AC1 | | > 10 ⁵ 16 A, 250 V AC | | |
| • cosφ | | see Fig. 2 | | |
| Mechanical life (cycles) | | > 10 ⁷ | | |
| Dimensions (L x W x H) | | 84,5 x 41,5 x 77,3 mm | | |
| Weight | | 162 g | | |
| | torage | -40+85 °C | | |
| · | perating | -40+55 °C | | |
| Cover protection category | | IP 00 EN 60529 | | |
| Environmental protection | | RTI EN 61810-1 | | |
| Shock / vibration resistance | | category 1, class B EN 61373 | | |
| | | (set: relay in socket with clip) | | |
| | | , , , , , , , , , , , , , , , , , , , | | |

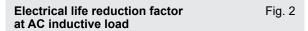
The data in bold type relate to the standard versions of the relays. *The relays are designed for continuous operation while maintaining the parameters declared in the data sheet. • • For other voltages, please contact Relpol S.A.

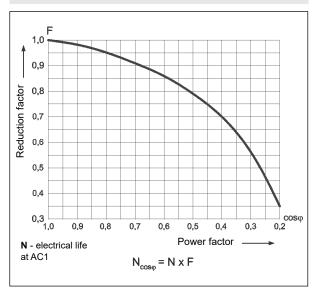


PRUCT with socket GUC11S-VO relays for railroad industry - interface

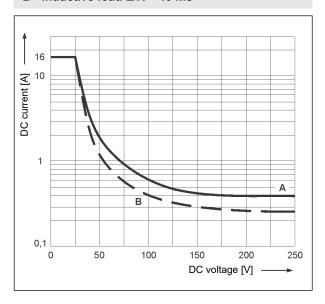
Electrical life at AC resistive load. Fig. 1 Switching frequency: 1 200 cycles/hour



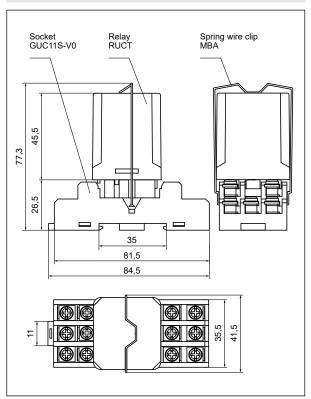




Max. DC breaking capacity A - resistive load DC1 Fig. 3 B - inductive load L/R = 40 ms



Dimensions



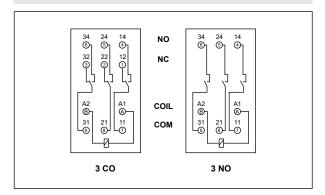
Relays for railroad industry - industrial



2

PRUCT with socket GUC11S-VO relays for railroad industry - interface

Connection diagrams (screw terminals side view)



Mounting

Relays **PRUCT with socket GUC11S-V0** are designed for direct mounting on 35 mm rail mount acc. to EN 60715. **Connections:** max. cross section of the cables (stranded): $2 \times 2.5 \text{ mm}^2$ ($2 \times 14 \text{ AWG}$), stripping length: 9 mm, max. tightening moment for the terminal: 0,7 Nm.

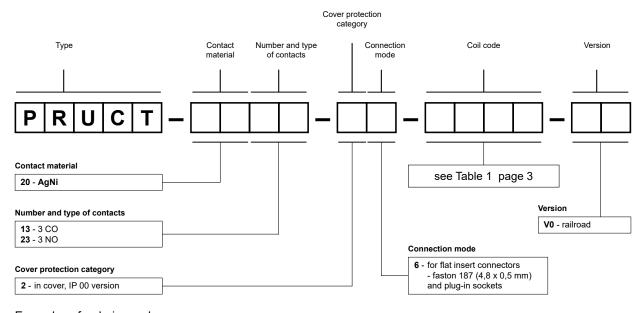
Coil data - DC voltage version

Table 1

| Coil code | Rated voltage V DC • | Coil resistance at 20 °C Ω | Acceptable resistance | Coil operating range V DC according to EN 50155 ❷ | |
|-----------|-------------------------|----------------------------------|-----------------------|---|-------|
| | | | | min. | max. |
| W024 | 24 | 345 | ± 10% | 16,8 | 30,0 |
| W110 | 110 | 7 300 | ± 10% | 77,0 | 137,5 |

The data in bold type relate to the standard versions of the relays. • • For other voltages, please contact Relpol S.A. • • Changes of voltage within the range 0,6...1,4 Un below 0,1 s and changes of voltage within the range 1,25...1,4 Un below 1 s are admissible and they do not distort operation of the relays.

Ordering codes



Examples of ordering codes:

PRUCT-2013-26-W024-V0

interface relay **PRUCT** (railroad version) consists of: relay **RUCT** (three changeover contacts, contact material AgNi, reinforced coil voltage 24 V DC), socket **GUC11S-V0** (grey, screw terminals), spring wire clip **MBA**

PRUCT-2023-26-W110-V0

interface relay **PRUCT** (railroad version) consists of: relay **RUCT** (three normally open contacts, contact material AgNi, reinforced coil voltage 110 V DC), socket **GUC11S-V0** (grey, screw terminals), spring wire clip **MBA**

PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.

28.12.2023