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

#### RUCT-M + GUC11S-V0



- Relays with permanent magnet 0, 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-M, RoHS,

Contact data CE III CIK

CE HI CIK			
1 NO (double-break) 2 NO			
AgNi			
250 V DC; 250 V AC / 250 V DC; 250 V AC			
5 V			
16 A / 24 V DC; 13 A / 110 V DC 10 A / 220 V DC 10 A / 220 V DC			
16 A / 24 V DC; 4,6 A / 110 V DC 2.5 A / 220 V DC 16 A / 24 V DC; 1,2 A / 110 V DC 0.4 A / 220 V DC			
16 A / 250 V AC 16 A / 250 V AC			
5 mA			
40 A 20 ms			
16 A			
4 000 VA			
0,3 W			
≤ 100 mΩ			
= 100 ms2			
1 200 cycles/hour			
12 000 cycles/hour			
<b>24</b> 110 V &			
<b>24</b> , 110 <b>V ②</b> ≥ 0,1 U <sub>n</sub>			
0,71,25 U <sub>n</sub> EN 50155 see Table 1			
≤ 0.7 Un			
1,7 W reinforced version			
1,7 VV reiniorced version			
0701/10			
250 V AC			
4 000 V 1,2 / 50 μs			
3			
V-0 UL 94, EN 60695-11-10 2 500 V AC type of insulation; basic			
21			
7.71			
with contact gap ≥ 5 mm  2 000 V AC contacts 2 NO, type of clearance: full-disconnection,			
with contact gap ≥ 2,5 mm 2 500 V AC contacts 2 NO, type of insulation: basic			
≥ 6,3 mm			
≥ 8 mm			
_ <b>~</b>			
20 ms / 15 ms			
25 ms / 35 ms			
> 2 x 10 <sup>5</sup> 10 A, 220 V DC > 2 x 10 <sup>5</sup> 3,8 A, 220 V DC			
> 2 x 10 <sup>5</sup> 10 A, 220 V DC > 2 x 10 <sup>5</sup> 2,5 A, 220 V DC > 2 x 10 <sup>5</sup> 0,4 A, 220 V DC			
> 2 x 10° 2,5 A, 220 V DC			
84,5 x 41,5 x 77,3 mm			
154 g			
-40+85 °C			
-40+55 °C			
IP 00 EN 60529			
RTI EN 61810-1			
RTI EN 61810-1 category 1, class B EN 61373			

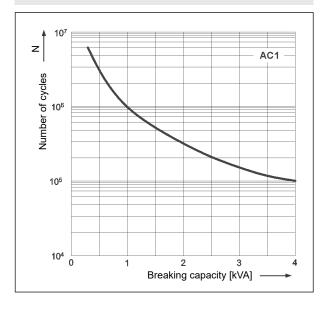
The data in bold type relate to the standard versions of the relays. \*The relays are designed for continuous operation while maintaining the parameters declared in the data sheet. • The permanent magnet is fixed on the contact plate. Its magnetic field is directed to the contacts and it blows the electric arc which occurs when the DC load is switched off. • For other voltages, please contact Relpol S.A.



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Fig. 1

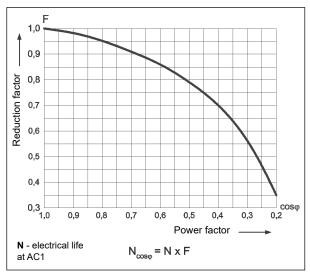
## Electrical life at AC resistive load. Switching frequency: 1 200 cycles/hour



### Electrical life reduction factor at AC inductive load

Fig. 2

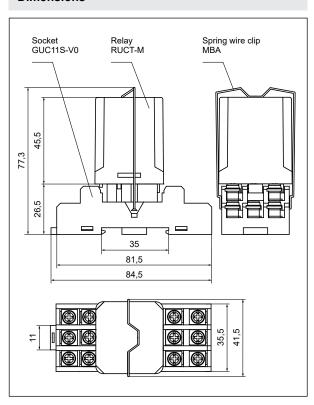
Fig. 3

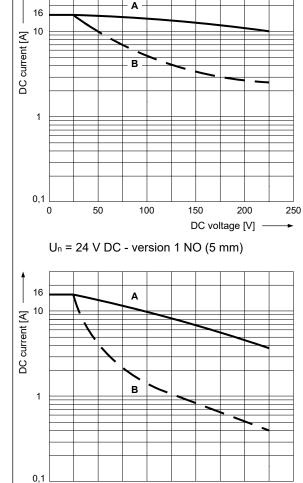


Max. DC breaking capacity A - resistive load DC1

B - inductive load L/R = 40 ms

### **Dimensions**





Relays for railroad industry - industrial



250

200

DC voltage [V]

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0

50

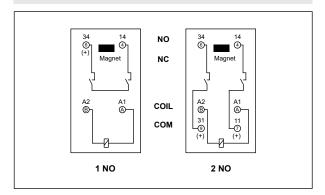
100

Un = 24 V DC - version 2 NO (2,5 mm)

150

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### Connection diagrams (screw terminals side view)



### Mounting

Relays **PRUCT-M** 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.

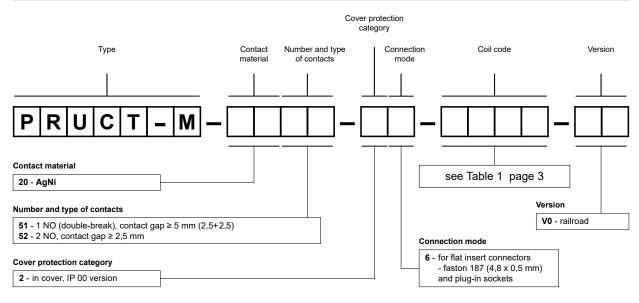
### Coil data - DC voltage version

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 <b>❸</b>	
				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. **②** For other voltages, please contact Relpol S.A. **③** 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-M-2051-26-W024-V0 interface relay PRUCT-M (railroad version) consists of: relay RUCT-M (one

normally open contact, contact material AgNi, reinforced coil voltage 24 V DC),

socket GUC11S-V0 (grey, screw terminals), spring wire clip MBA

PRUCT-M-2052-26-W110-V0 interface relay PRUCT-M (railroad version) consists of: relay RUCT-M (two 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.



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