- Relays designed for continuous operation*
- For plug-in sockets: on 35 mm rail mount acc. to EN 60715 • DC coils, insulation class F: 155 °C • Version: faston 187 (4,8 x 0,5 mm)
- 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: RoHS,

Contact data

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 V ❷
Must release voltage		≥ 0,1 U_n
Operating range of supply voltage		0,7...1,25 U_n EN 50155 see Table 1
Must operate voltage		≤ 0,7 U_n
Rated power consumption	DC	1,7 W reinforced 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, PN-EN 60695-11-10
Dielectric strength		
• between coil and contacts		2 500 V AC 1 min., type of insulation: basic
• contact clearance		1 500 V AC 1 min., type of clearance: micro-disconnection with contact gap ≥ 0,4 mm
• pole - pole		2 500 V AC 1 min., type of insulation: basic
Contact - coil distance	• clearance	≥ 4 mm
	• creepage	≥ 5 mm
Pole - pole distance	• clearance	≥ 6,3 mm
	• creepage	≥ 8 mm

General data

Operating / release time	• typical values	20 ms / 15 ms
	• max. values	25 ms / 20 ms
Electrical life	• resistive AC1	> 10^5 16 A, 250 V AC
		> 10^5 10 A, 400 V AC
	• cosφ	see Fig. 2
Mechanical life (cycles)		> 10^7
Dimensions (L x W x H)		36,1 x 38,6 x 52,65 mm
Weight		80 g
Ambient temperature	• storage	-40...+85 °C
(non-condensation and/or icing)	• operating	-40...+55 °C
Cover protection category		IP 00 EN 60529
Environmental protection		RTI EN 61810-1
Shock resistance		10 g category 1, class B EN 61373
Vibration resistance		5 g 10...150 Hz 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. ❶ Certification IK for interface set PRUCT (RUCT with socket GUC11S-V0). ❷ For other voltages, please contact Relpol S.A.

28.12.2023

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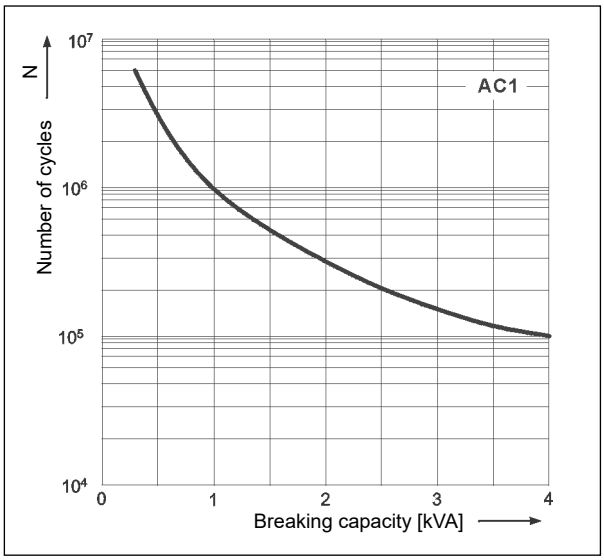
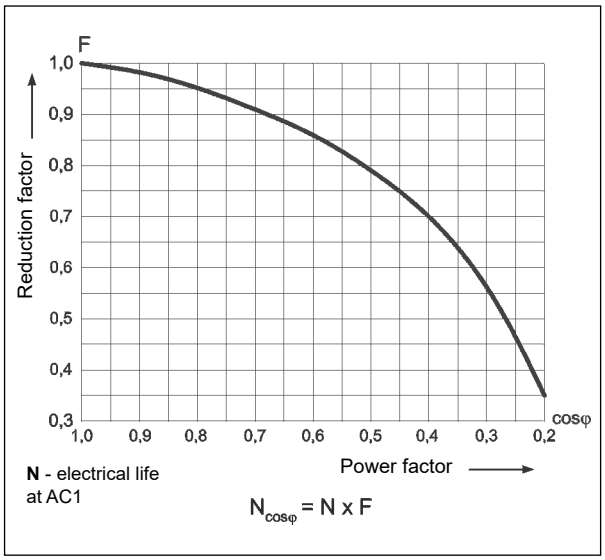
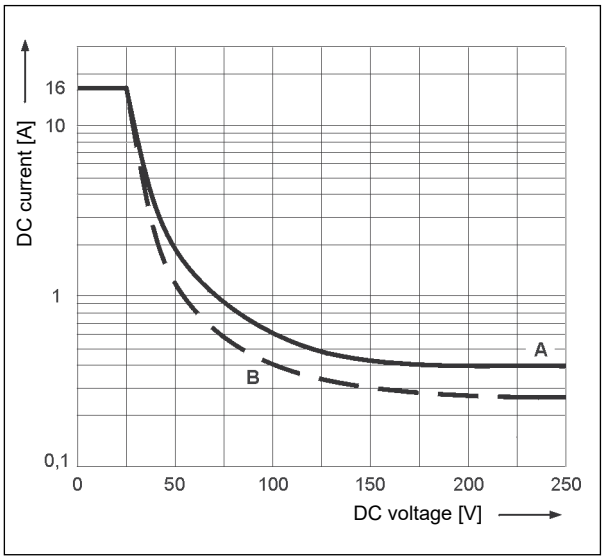
Electrical life at AC resistive load.
Switching frequency: 1 200 cycles/hour Fig. 1



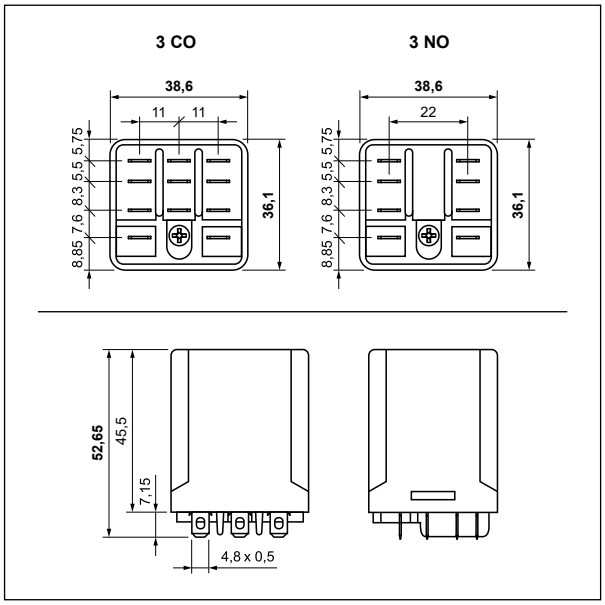
Electrical life reduction factor at AC inductive load Fig. 2



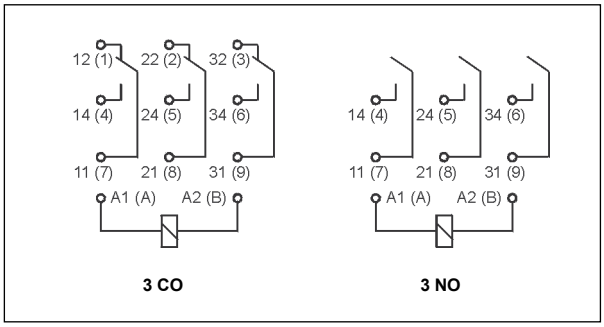
Max. DC breaking capacity
A - resistive load DC1
B - inductive load L/R = 40 ms Fig. 3



Dimensions



Connection diagrams (pin side view)



PRUCT

Relays for
railroad industry
- interface,
contacts 3 CO, 3 NO

28.12.2023

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Mounting, sockets and accessories for relays

Relays **RUCT** are designed for mounting in plug-in sockets.

Sockets for RUCT	**Accessories**
	Spring wire clips
Screw terminals sockets, 35 mm rail mount (acc. to EN 60715)	
GUC11S-V0	MBA

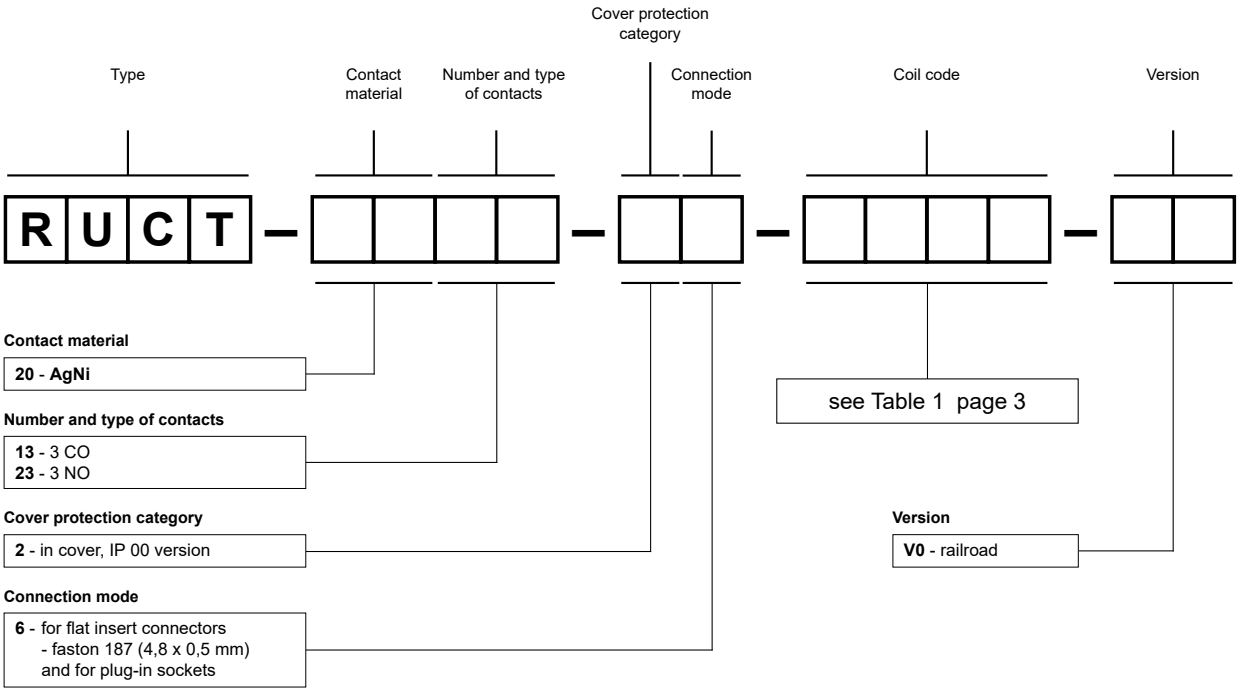
Coil data - DC voltage version

Table 1

Coil code	Rated voltage V DC ❷	Coil resistance at 20 °C Ω	Acceptable resistance	Coil operating range V DC EN 50155 ❸	
				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. ❷ For other voltages, please contact Relpol S.A. ❸ Changes of voltage within the range 0,6...1,4 U_n below 0,1 s and changes of voltage within the range 1,25...1,4 U_n below 1 s are admissible and they do not distort operation of the relays.

Ordering codes



Examples of ordering codes:

RUCT-2013-26-W024-V0 relay **RUCT** (railroad version), faston 187 (4,8 x 0,5 mm), for plug-in sockets, three changeover contacts, contact material AgNi, reinforced coil voltage 24 V DC, in cover IP 00

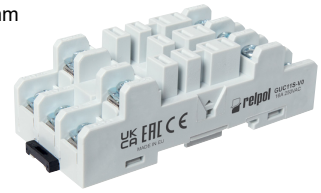
RUCT-2023-26-W110-V0 relay **RUCT** (railroad version), faston 187 (4,8 x 0,5 mm), for plug-in sockets, three normally open contacts, contact material AgNi, reinforced coil voltage 110 V DC, in cover IP 00

GUC11S-VO

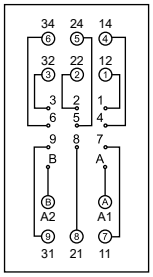
For RUCT, RUCT-M

Screw terminals
Cross section of the cables: max. 1 x 4 mm^2 / 2 x 2,5 mm^2 (1 x 12 / 2 x 14 AWG), min. 1 x 0,25 mm^2 (1 x 23 AWG)
Max. tightening moment for the terminal: 0,7 Nm

35 mm rail mount
acc. to EN 60715
81,5 x 35,5 x 26,5 mm
Three poles
16 A, 250 V AC



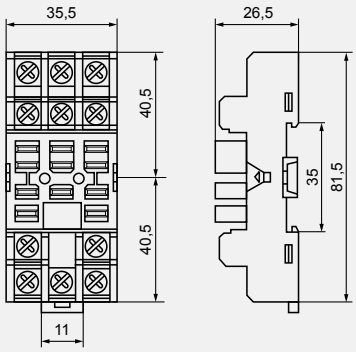
Connection diagram



Accessories

MBA

Dimensions



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.