

## 1.3 Industrial Relays - pluggable

### R9-A41

4 pole | changeover contact | faston



#### Main circuit

Available contact materials	AgNi + 0.2 μ Au
Recommended minimum contact load	10 mA / 10 V
Maximum contact load AC	5 A / 250 V AC-1
Maximum contact load DC	5 A / 30 V DC-1
Inrush current	15 A, 20 ms
AC load	1250 VA
DC load	fig. 3.
Rated current	5 A
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 100 000

#### Control circuit

Nominal voltage	see table product references
Operating voltage range	0.7 U <sub>N</sub> ... 1.25 U <sub>N</sub>
Pick-up voltage	≤ 0.7 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	1.2 VA / 1 W

#### Coil table

V DC	Ohm	mA
24	632	38
36	1 423	25
72	5 692	13
110	13 286	8

#### Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / contact	2 kV / 1 min
Test voltage contact / coil	2.5 kV / 1 min
Pollution degree	3
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ

#### General data

Ambient temperature storage (no ice)	-40 ... 80 °C
Ambient temperature operation	-40 ... 70 °C
Pick-up time / bounce time	10 ms / ≤ 3 ms
Release time / bounce time	6 ms / ≤ 1 ms
Maximum switching frequency at rated load	1200 / h
Dimension	fig. 4.
Weight	43 g
Housing material	PA / PC

#### Product references

Description	Type	24	36	72	110
LED & Polarity & Free wheeling diode	R9-A41FX/DC...V	✓	✓	✓	✓

Other voltages on request. Please contact support@comatreleco.com.

«...» List coil voltage to complete product references

#### Accessories

Socket	S9-PIR
Blanking plug	S9-NP (BAG 10 PCS)
Push only	S9-OP (BAG 10 PCS)



fig. 1. Wiring diagram

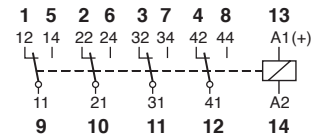


fig. 2. AC voltage endurance

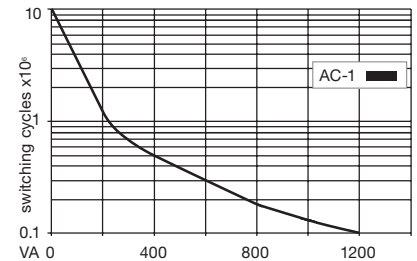


fig. 3. DC load limit curve

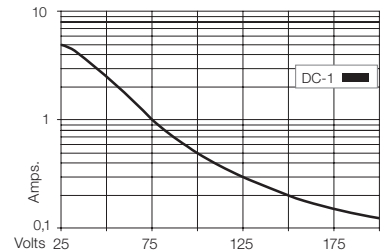
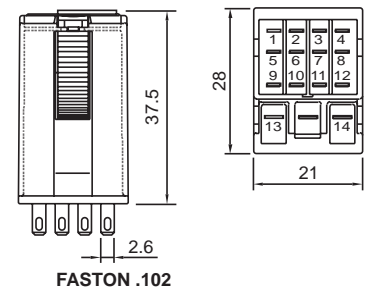


fig. 4. Dimension (mm)



#### Technical approvals, conformities

Standards IEC/EN 60947; IEC/EN 61810

Railway EN 45545-2; EN 50155

Approvals