

# C9-A4x

## 4 pole | changeover contact | faston

### Main circuit

Available contact materials	<span style="color: green;">⚡</span> AgNi + 0.2 μ Au for C9-A41 <span style="color: yellow;">⚡</span> AgNi + 5 μ Au for C9-A42
Recommended minimum contact load	1 mA / 1 V for C9-A41 1 mA / 1 V for C9-A42
Maximum contact load AC	5 A / 250 V AC-1
Maximum contact load DC	5 A / 30 V DC-1
Rated current	5 A
Inrush current	15 A, 20 ms
AC load	1250 VA
DC load	fig. 3.
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	0.8 U <sub>N</sub> ... 1.1 U <sub>N</sub>
Pick-up voltage	≤ 0.8 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	1.2 VA / 1 W

### Coil table

V AC	Ω	mA	V DC	Ω	mA
12	42	122	12	158	76
24	166	59	24	632	38
48	664	on request	48	2 530	19
60	1 038	on request	60	3 953	15
115	3 812	12.5	110	13 286	8
230	15 248	6.7	220	53 146	4

### 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 ... 60 °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 (x refers to contact material)	12	24	48	60	110	220	230
AC 50 Hz	C9-A4x/AC...V	✓	✓	✓	✓	✓	✓	✓
LED	C9-A4xX/AC...V	✓	✓	✓	✓	✓	✓	✓
DC	C9-A4x/DC...V	✓	✓	✓	✓	✓	✓	✓
LED	C9-A4xX/DC...V	✓	✓	✓	✓	✓	✓	✓
LED & Free wheeling diode	C9-A4xDX/DC...V	✓	✓	✓	✓	✓	✓	✓
LED & Polarity & Free wheeling diode	C9-A4xFX/DC...V	✓	✓	✓	✓	✓	✓	✓

AC / DC bridge rectifier & LED C9-A4xBX/UC...V ✓ ✓ ✓ ✓

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.  
 «...» List coil voltage to complete product references

### Accessories

Socket	S9-M, S9-P, S9-PI
Blanking plug	S9-NP (BAG 10 PCS)
Push only	S9-OP (BAG 10 PCS)

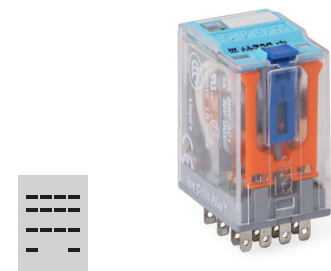


fig. 1. Wiring diagram

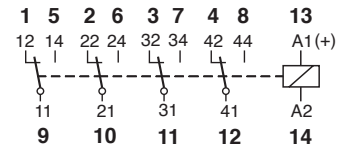


fig. 2. AC voltage endurance

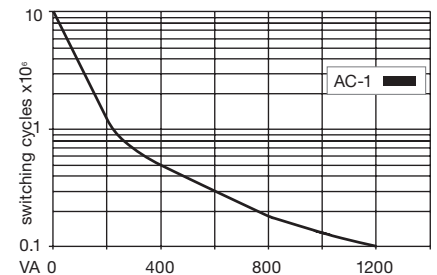


fig. 3. DC load limit curve

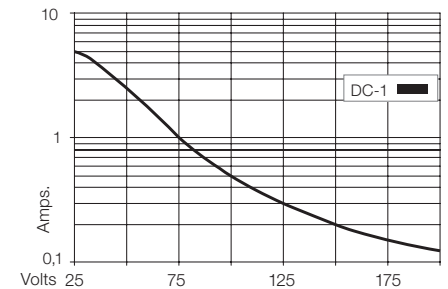
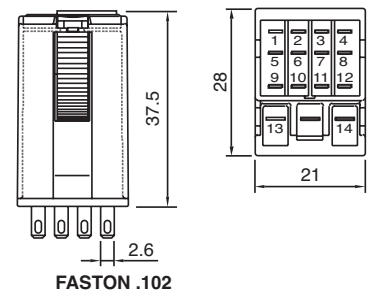


fig. 4. Dimension (mm)



### Technical approvals, conformities

Standards IEC/EN 61810; IEC/EN 60947

