

# C9-A4x

4 pole | changeover contact | plug-in Faston

<b>Maximum contact load</b>	<b>5 A/250 V AC-1</b>	<b>5 A/30 V DC-1</b>
<b>Recommended minimum contact load</b>	<b>10 mA/10 V Code 1</b>	
	<b>1 mA/5 V Code 2</b>	

### Contacts

Material	Standard	Code 1	AgNi + 0.2 μ Au
	Optional	Code 2	AgNi + 5 μ Au
Rated Load	5 A		
Switch-on current max. (20 ms)	15 A		
Switching voltage max (same polarity)	250 V		
AC load (Fig 1)	1250 VA		
DC load	see Fig. 2		

### Coil

Coil resistance	see table; tolerance ± 10 %
Pick-up voltage	≤ 0.8 x U <sub>N</sub>
Release voltage	≥ 0.1 x U <sub>N</sub>
Nominal power	1.2 VA (AC)/1 W (DC)

### Coil table

V AC	Ω	mA	VDC	Ω	mA
24	174	50	12	148	81
48	686	25	24	594	40
115	4K3	10.4	48	2K3	21
230	18K6	5.2	110	11K4	11

### Insulation

	Volt rms / 1 min
Contact open	1000 V
Contact/contact	2 kV
Contact/coil	2.5 kV
Insulation resistance at 500 V	≥ 1 GΩ
Insulation, IEC 61810-1	2.5 kV

### Specifications

Ambient temperature operation/storage	-40...60 °C / -40 ... 80 °C (no ice)
Pick-up time/bounce time	10 ms/≤ 3 ms
Release time/bounce time	6 ms/≤ 1 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100 000 switching cycles
Switching frequency at rated load	≤ 1200/h
Weight	43 g

### Product References

V AC 50 Hz/60 Hz: **24, 48, 115, 230 (240) LED**

VDC **12, 24, 48, 110**

LED

Free wheeling diode (only 24 DC)

Polarity and free wheeling diode

AC/DC bridge rectifier **24 V, 48 V, 60 V**

Other voltages on request

"..." List Coil Voltage to complete Product References

### Accessories (See also Section Sockets)

Socket:	<b>S9-M, S9-P</b>
Push only:	<b>S9-OP (BAG 10 PCS)</b>
Blanking Plug:	<b>S9-NP (BAG 10 PCS)</b>

<b>C9-A41/AC ... V</b>	<b>C9-A42/AC ... V</b>
<b>C9-A41X/AC ... V</b>	<b>C9-A42X/AC ... V</b>
<b>C9-A41/DC ... V</b>	<b>C9-A42/DC ... V</b>
<b>C9-A41X/DC ... V</b>	<b>C9-A42X/DC ... V</b>
<b>C9-A41DX/DC 24 V</b>	<b>C9-A42DX/DC 24 V</b>
<b>C9-A41FX/DC ... V</b>	<b>C9-A42FX/DC ... V</b>
<b>C9-A41BX/UC ... V</b>	<b>C9-A42BX/UC ... V</b>



### Connection diagram

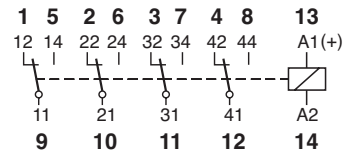


Fig.1 AC voltage endurance

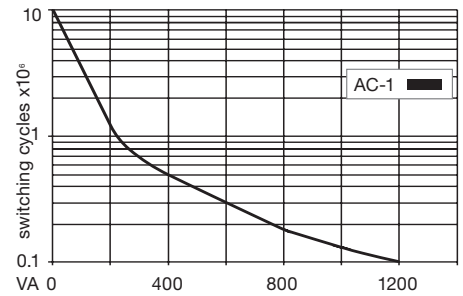
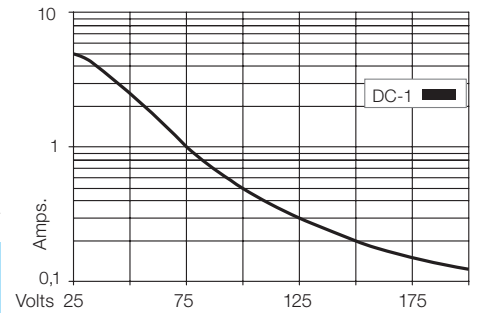
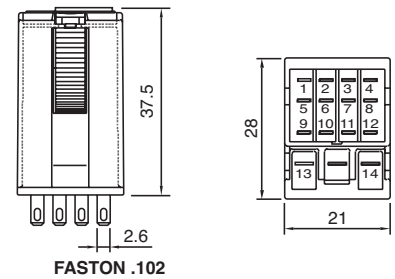


Fig. 2 DC load limit curve



### Dimensions



### Technical approvals, conformities



IEC/EN 61810; IEC/EN 60947

**Warning:** Maximum voltage between two separate circuits on neighbouring contacts: 150 V  
**Not permitted:** 24 V DC next to 230 V AC, 230 V AC next to neutral, 230 V AC next to 230 V AC of different phases  
**Permitted:** 230 V AC next to 230 V AC same phase