



Type	C9-A4x/ ... V Standard relays 4 change-over contacts			
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Maximum contact load	5 A/250 V	AC 1	5 A/30 V	DC1
Recommended minimum contact load	10 mA/10 V	Code 1		
	5 mA/5 V	Code 2		

Contacts

Material	Standard	Code 1	AgNi + 0,2 µ Au
	Optional	Code 2	AgNi + 10 µ Au
Rated current			5 A
Switch-on current max. (20 ms)			15 A
Switching voltage max (same polarity)			250 V
AC load (Fig 1)			1,250 kVA
DC load			see Fig. 2

Coil

Coil resistance	see table; tolerance ± 10 %
Pick-up voltage	≤ 0,8 x U _N
Release voltage	≥ 0,1 x U _N
Nominal power	1,2 VA (AC)/1 W (DC)

Coil table

VAC	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/3

Specifications

Ambient temperature operation/storage	-40 (no ice)...60 °C / -40 ... 80 °C
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	≥100000 switching cycles
Switching frequency at rated load	≤ 1200/h
Protection class	IP40
Weight	43 g

Standard types

VAC 50 Hz/60 Hz: 24, 48, 115, 230 (240)
LED

VDC 12, 24, 48, 110

LED

Free wheeling diode

Polarity and free wheeling diode

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

C9-A41/AC ... V
C9-A41X/AC ... V

C9-A41/DC ... V
C9-A41X/DC ... V
C9-A41DX/DC ... V
C9-A41FX/DC ... V

C9-A41BX/UC ... V

C9-A42/AC ... V
C9-A42X/AC ... V

C9-A42/DC ... V
C9-A42X/DC ... V
C9-A42DX/DC ... V
C9-A42FX/DC ... V

C9-A42BX/UC ... V

Connection diagram

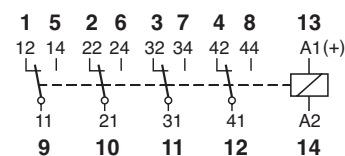


Fig. 1 AC voltage endurance

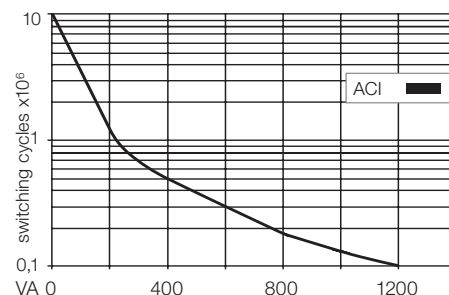
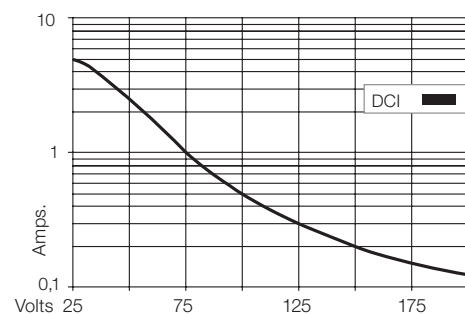
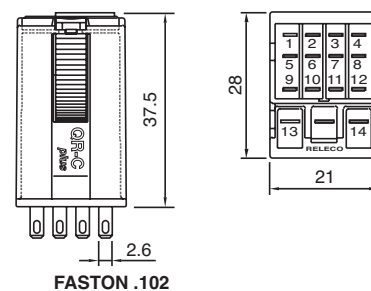


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



"..." Enter the voltage for full type designation

Accessories

Socket:	S9-M, S9-L, S9-P, S9-P0
Optional accessories (blanking plug):	S9-NP, S9-OP