

# IRC series

## C12-A2x

### 8-pin, Interface relays, 2-pole, plug-in faston

<b>Type</b>	<b>C12-A2x/ ... V</b> Standard relay 2 change-over contact		
<b>Maximum contact load</b>	<b>5 A/250 V AC1</b>	<b>0,5 A/110 V DC1</b>	
	<b>5 A/30 V DC1</b>	<b>0,2 A/220 V DC1</b>	
<b>Recommended minimum contact load</b>	<b>1 mA/10 V</b> (with 10 $\mu$ Au) <b>10 mA/10 V</b> (standard contact)		

#### Contacts

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

#### Coil

Coil resistance	see table; tolerance $\pm 10\%$
Pick-up voltage	$\geq 0,8 \times U_N$
Release voltage	$\geq 0,1 \times U_N$
Nominal power	1,1 VA (AC)/0,7 W (DC)

#### Coil table

VAC	$\Omega$	mA	VDC	$\Omega$	mA
24	290	45	12	224	53
48	1200	23	24	742	32
115	7.300	9,5	48	3.500	13,7
230	28.800	4,7	110	19.900	5,5

#### Insulation

	Volt rms, 1 min
Contact open	1000 V
Contact/contact	3000 V
Contact/coil	5 kV
Insulation resistance at 500 V	$\geq 3 \text{ G}\Omega$
Insulation, IEC 61810-5	4 kV/3

#### Specifications

Ambient temperature operation/storage	-40 (no ice)...60 $^{\circ}\text{C}$ / -40 ... 80 $^{\circ}\text{C}$
Pick-up time/bounce time	10 ms/ $\leq 1$ ms
Release time/bounce time	5 ms/ $\leq 3$ ms
Mechanical life	AC: 10 Mill./DC: 20 Mill. switching cycles
Rated load	$\geq 100000$ switching cycles
Switching frequency at rated load	$\leq 1200/\text{h}$
Protection class	IP40
Weight	21 g

#### Standard types

AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)

LED

RC suppressor

DC 12, 24, 48, 110

LED

Polarity and free wheeling diode

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

C12-A21/AC ... V  
C12-A21X/AC ... V  
C12-A21R/AC ... V

C12-A22/AC ... V  
C12-A22X/AC ... V  
C12-A22R/AC ... V

C12-A21/DC ... V  
C12-A21X/DC ... V  
C12-A21FX/DC ... V

C12-A22/DC ... V  
C12-A22X/DC ... V  
C12-A22FX/DC ... V

C12-A21BX/UC ... V

C12-A22BX/UC ... V

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

#### Accessories

Socket: S12, S12-P



#### Connection diagram

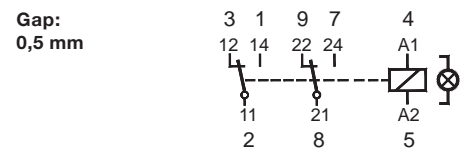


Fig. 1 AC voltage endurance

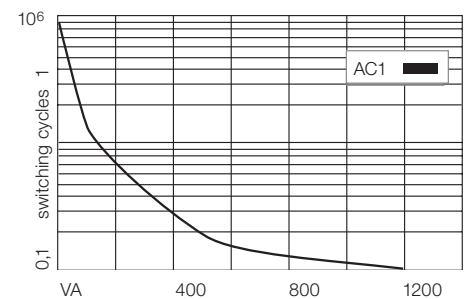
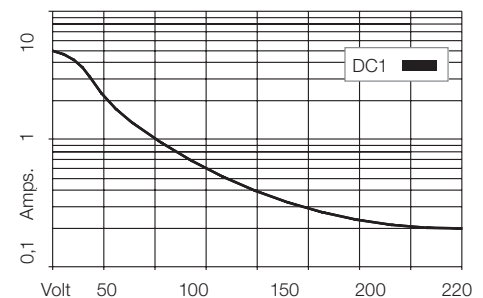
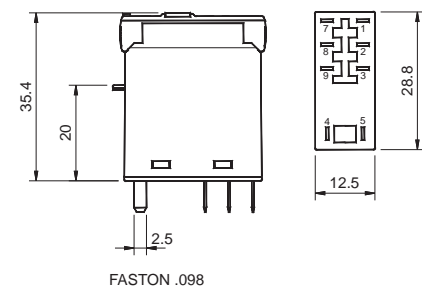


Fig. 2 DC load limit curve



#### Dimensions [mm]



#### Technical approvals, conformities



IEC 61810; EN 60947