

# Product SPECIFICATION SHEET

## C10 RELAY

### C10-A1x 5-pin, Interface relays, 1-pole, plug-in, faston

<b>Type</b>	<b>C10-A1x/ ... V</b> Standard relay, 1 change-over contact		
<b>Maximum contact load</b>	<b>10 A/250 V AC1</b>	<b>0,5 A/110 V DC1</b>	
	<b>10 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)		

<b>Contacts</b>			
Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi+ 10 $\mu$ Au
	Optional	Code 5	Ag Sn O
Rated current	10 A		
Switch-on current max. (20 ms)	30 A		
Switching voltage max.	250 V		
AC load	2,5 kVA		
DC load	see fig. 2		

<b>Coil</b>			
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)		

<b>Coil table</b>					
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

<b>Insulation</b>		Volt rms, 1 min
Contact open	1000 V	
Contact/coil	5 kV	
Insulation resistance at 500 V	$\geq 1$ G $\Omega$	
Insulation, IEC 61810-5	4 kV/3	

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

<b>Standard types</b>			
AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)	C10-A10/AC ... V	C10-A18/AC ... V	C10-A15/AC ... V
LED	C10-A10X/AC ... V	C10-A18X/AC ... V	C10-A15X/AC ... V
RC suppressor	C10-A10R/AC...V	C10-A18R/AC...V	C10-A15R/AC...V
DC 12, 24, 48, 110	C10-A10/DC ... V	C10-A18/DC ... V	C10-A15/DC ... V
LED	C10-A10X/DC ... V	C10-A18X/DC ... V	C10-A15X/DC ... V
Free wheeling diode	C10-A10FX/DC...V	C10-A18FX/DC...V	C10-A15FX/DC ... V
Polarity and free wheeling diode	C10-A10FX/DC...V	C10-A18FX/DC...V	C10-A15FX/DC ... V
AC/DC bridge rectifier 24 V, 48 V	C10-A10BX/UC ... V	C10-A18BX/UC ... V	C10-A15BX/UC ... V

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

<b>Accessories</b>	
Socket:	S10, S10-M, S10-K



#### Connection diagram

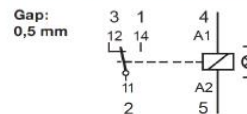


Fig. 1 AC voltage endurance

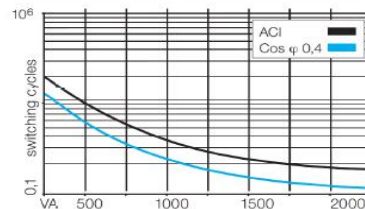
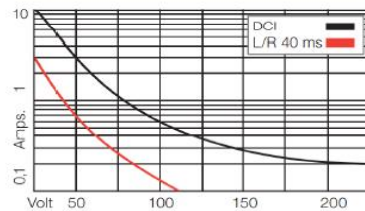
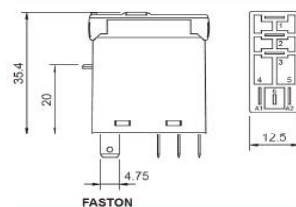


Fig. 2 DC load limit curve



#### Dimensions [mm]



#### Technical approvals, conformities



IEC 61810; EN 60947

#### BRANCH CONTACT DETAILS

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