

**MRC**  
**C2-A2x**  
**8-pin standard relay, 2-pole, plug-in according to IEC 67-I-5a**

<b>Type</b>	<b>C2-A2x/ ... V</b> Standard relay, 2 change-over contacts		
<b>Maximum contact load</b>	<b>10 A/250 V AC1</b>	<b>0,5 A/110 V DC1</b>	
<b>Recommended minimum contact load</b>	<b>1 mA/10 V</b> (with 10 µm Au)	<b>10 mA/10 V</b> (Standard contact)	

<b>Contacts</b>			
Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi + 10 µ Au
	Optional	Code 9	AgNi + 0,2 µ Au
Max. switching current	10 A		
Max. peak inrush current (20 ms.)	30 A		
Max. switching voltage	250 V		
Max. AC load (Table 1)	2,5 kVA		
Max. DC load	See Table 2		

<b>Coils</b>			
Coil resistance	see table; tolerance ± 10 %		
Pull-in voltage	≥ 0,8 x U <sub>N</sub>		
Pull-in voltage	≥ 0,1 x U <sub>N</sub>		
Nominal power	2,2 VA (AC)/1,3 W (DC)		

<b>Table</b>	VAC	Ω	mA	VDC	Ω	mA
	12	-	-	12	110	110
	24	67	92	24	433	54
	48	296	46	48	1K8	27
	115	1K7	19	110	9K2	12

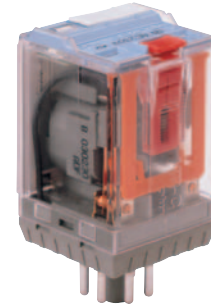
<b>Insulation</b>		Volt rms, 1 min
Open contact	1000 V	
Between adjacent poles	2,5 kV	
Between contacts and coil	2,5 kV	
Insulation resistance at 500 V	≥ 1 GΩ	
Insulation, IEC 61810-5	2,5 kV/3	

<b>Specifications</b>	
Ambient temperature	-40 (no ice)...60 °C /-40 ... 80 °C
Operate time + bounce time	16 ms/≥ 3 ms
Release time + bounce time	8 ms/≥ 1 ms
Mechanical life ops.	AC: 10 Mill./DC: 20 Mill. relays
AC voltage endurance at rated load	≥ 100000 ops.
Operating frequency at nominal load	≤ 1200/h
Protection degree	IP40
Weight	90 g

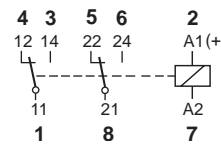
<b>Standard types</b>			
<b>AC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)</b>	<b>C2-A20/AC ... V</b>	<b>C2-A28/AC ... V</b>	<b>C2-A29AC ... V</b>
<b>LED</b>	<b>C2-A20X/AC ... V</b>	<b>C2-A28X/AC ... V</b>	<b>C2-A29X/AC ... V</b>
<b>RC Suppressor</b>	<b>C2-A20R/AC ... V</b>	<b>C2-A28R/AC ... V</b>	<b>C2-A29R/AC ... V</b>
<b>DC 24, 48, 110, 220</b>	<b>C2-A20/DC ... V</b>	<b>C2-A28/DC ... V</b>	<b>C2-A29/DC ... V</b>
<b>LED</b>	<b>C2-A20X/DC ... V</b>	<b>C2-A28X/DC ... V</b>	<b>C2-A29X/DC ... V</b>
<b>Free wheeling diode</b>	<b>C2-A20DX/DC ... V</b>	<b>C2-A28DX/DC ... V</b>	<b>C2-A29DX/DC ... V</b>
<b>V Polarity and free wheeling diode</b>	<b>C2-A20FX/DC ... V</b>	<b>C2-A28FX/DC ... V</b>	<b>C2-A29FX/DC ... V</b>
<b>AC/DC bridge rectifier 24 V, 48 V, 60 V</b>	<b>C2-A20BX/UC ... V</b>	<b>C2-A28BX/UC ... V</b>	<b>C2-A29BX/UC ... V</b>

"..." Relay compatible with sockets S2-B, S2-S, S2-L and S2-PO

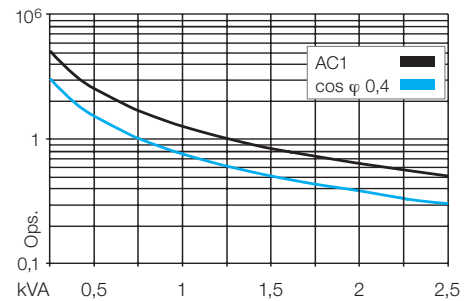
Relay compatible with sockets **S2-B, S2-S, S2-L, S2-P, S2-PO**  
**SO-NP, SO-OP**



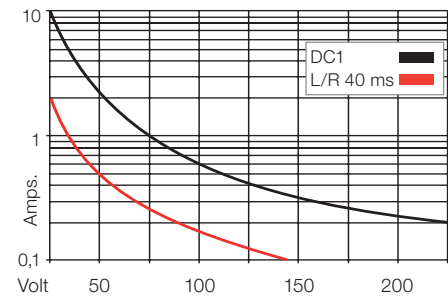
**Connection diagram**



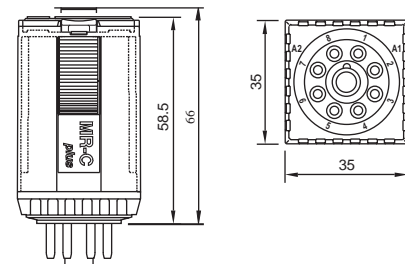
**Fig. 1 AC voltage endurance**



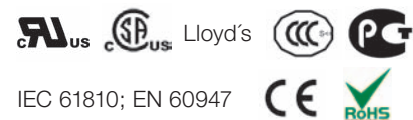
**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**





**Kühn Controls AG**

**Notes:**

You want more information about this product, please call us: tel: +49 (0)7082-940000 or send us a fax: +49 (0)7082-940001, or email: [sales@kuehn-controls.de](mailto:sales@kuehn-controls.de) or visit our Website: [www.kuehn-controls.de](http://www.kuehn-controls.de)