

**MRC series**  
**C4-X2x**  
**14-pin, power relay, double-make, faston**

**Type** **C4-X2x/ ... V**  
 Power relays, DC application  
 2-pole, NO, double make

**Maximum contact load** **10 A/250 V AC 1** **7 A/110 V DC 1**  
**10 A/30 V DC 1** **1,2 A/220 V DC 1**

**Contacts**  
 Material Standard Code 0 AgNi  
 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

**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 2,4 VA (AC)/1,3 W (DC)

**Coil table**

24	65	100	24	443	54
48	286	50	48	1K8	27
115	1K7	21	110	9K2	12
			220	36K1	6

**Insulation** Volt rms, 1 min  
 Contact open 2500 V  
 Contact/contact 2,5 kV  
 Contact/coil 2,5 kV  
 Insulation resistance at 500 V  $\geq 1 \text{ G}\Omega$   
 Insulation, IEC 61810-5 2,5 kV/3

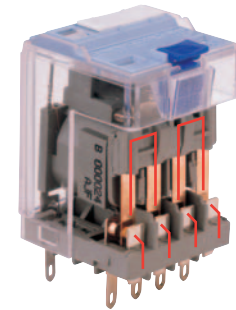
**Specifications**  
 Ambient temperature operation/storage -40 (no ice)...60 °C /-40 ... 80 °C  
 Pick-up time/bounce time 20 ms/ $\leq 3$  ms  
 Release time/bounce time 8 ms/ $\leq 1$  ms  
 Mechanical life AC: 10 Mill./DC: 20 Mill. switching cycles  
 AC voltage endurance at rated load  $\geq 100000$  switching cycles  
 Switching frequency at rated load  $\leq 1200$ /h  
 Protection class IP40  
 Weight 90 g

**Standard types**  
**AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240)**  
**LED**  
**RC Suppressor**  
  
**DC 24, 48, 110, 220**  
**LED**  
**Free wheeling diode**  
**Polarity and free wheeling diode**  
  
**AC/DC bridge rectifier 24 V, 48 V, 60 V**

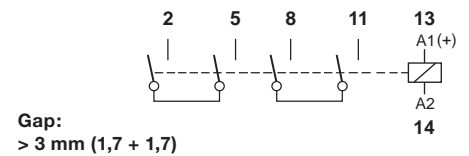
**C4-X20/AC ... V**  
**C4-X20X/AC ... V**  
**C4-X20R/AC ... V**  
  
**C4-X20/DC ... V**  
**C4-X20X/DC ... V**  
**C4-X20DX/DC ... V**  
**C4-X20FX/DC ... V**  
  
**C4-X20BX/UC ... V**

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

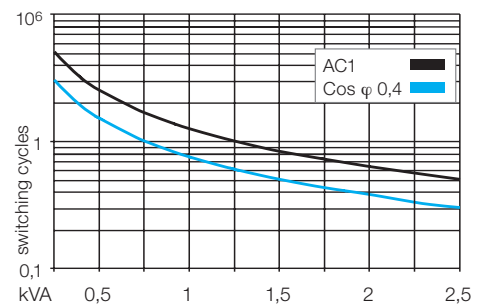
**Accessories**  
 Socket: **S4-B, S4-L, S4-P, S4-P0**  
 Operational accessories (blanking plug): **SO-NP, SO-OP**



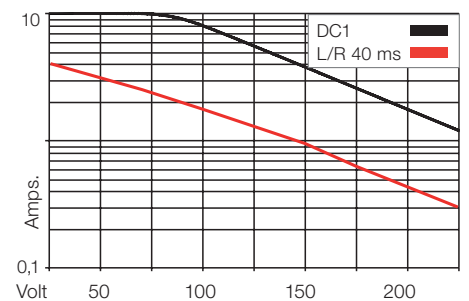
**Connection diagram**



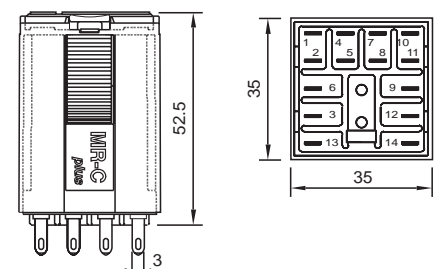
**Fig. 1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**



IEC 61810; EN 60947



**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)