

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/ ≤ 3 ms
 Release time/bounce time 8 ms/ ≤ 1 ms
 Mechanical life AC: 10 Mill./DC: 20 Mill. switching cycles
 AC voltage endurance at rated load ≥ 100000 switching cycles
 Switching frequency at rated load ≤ 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

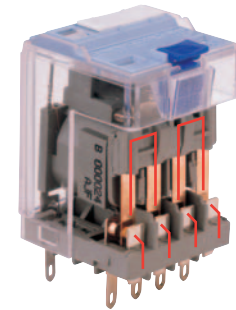
C4-X20/AC ... V
C4-X20X/AC ... V
C4-X20R/AC ... V

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

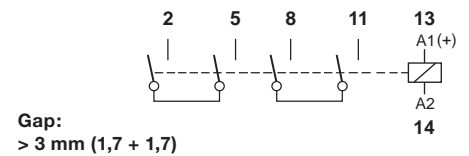


Fig. 1 AC voltage endurance

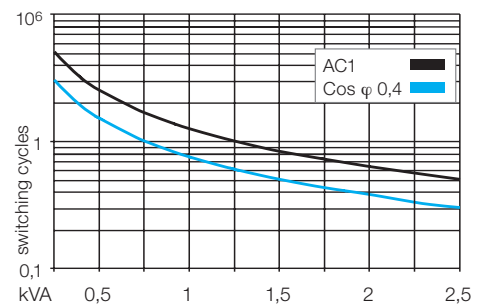
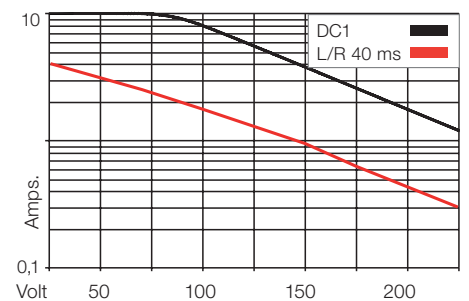
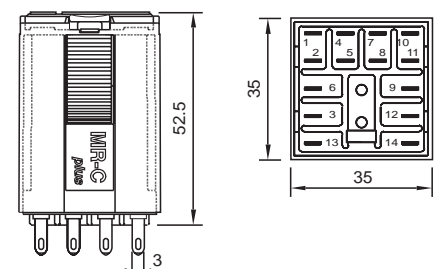


Fig. 2 DC load limit curve



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 or visit our Website: www.kuehn-controls.de