

MRC series

C5-X1x

11-pin, power relay, 1-pole, double make, faston

Type	C5-X1x/ ... V Power relays, DC application 1 pole, NO, double make		
Maximum contact load	16 A/400 V AC1 16 A/30 V DC13	7 A/110 V DC1	1,2 A/220 VDC13
Contacts	Material Standard Code 0 AgNi Rated current 16 A Switch-on current max. (20 ms) 40 A Switching voltage max. 400 V AC load 4 kVA DC load see Fig. 2		

Coil	see table; tolerance $\pm 10\%$
Coil resistance	$\geq 0,8 \times U_N$
Pick-up voltage	$\geq 0,1 \times U_N$
Release voltage	2,4 VA (AC)/1,3 W (DC)
Nominal power	

Coil table	VAC	Ω	mA	VDC	Ω	mA
	24	65	100	12	110	108
	48	286	50	24	443	54
	115	1K7	21	48	1K8	27
	230	6K8	10	110	9K	12
	400	18K8	6	220	34K5	6,5

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

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

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

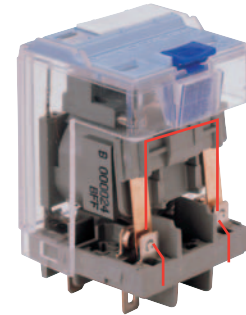
C5-X10/AC ... V
C5-X10X/AC ... V
C5-X10R/AC ... V

C5-X10/DC ... V
C5-X10X/DC ... V
C5-X10DX/DC ... V
C5-X10FX/DC ... V

C5-X10BX/UC ... V

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

Accessories	S5-S, S5-L, S5-P, S5-P0
Socket:	SO-NP, SO-OP
Operational accessories (blanking plug):	



Connection diagram

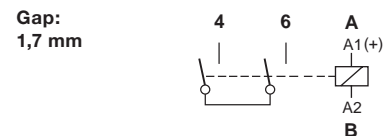


Fig. 1 AC voltage endurance

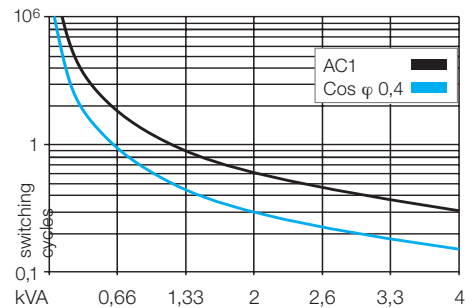
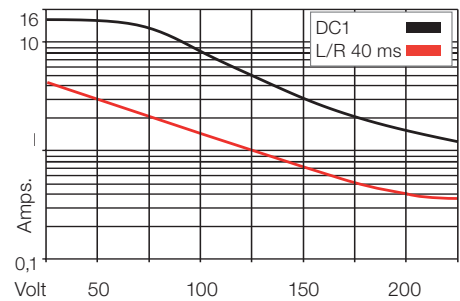
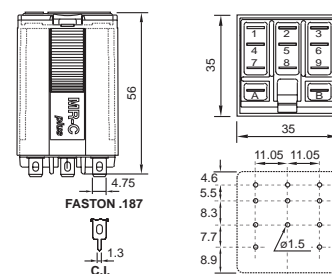


Fig. 2 DC load limit curve



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