

QRC series

C7-X1x

8-pin, miniature power relay, 1-pole, double make contact, faston

Type	C7-X1x/ ... V Power relay, DC application 1 pole, NO, double make
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Maximum contact load	10 A/250 V AC1	6 A/110 V DC1
	10 A/30 V DC1	1 A/220 V DC1

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 ± 10 %
Pick-up voltage	≥ 0,8 x U _N
Release voltage	≥ 0,1 x U _N
Nominal power	1,5 VA (AC)/1,3 W (DC)

Coil table	VAC	Ω	mA	VDC	Ω	mA
	24	153	62	12	111	108
	48	611	31	24	432	55
	115	3K6	13	48	1K7	27
	230	14K6	6,5	110	9K2	12

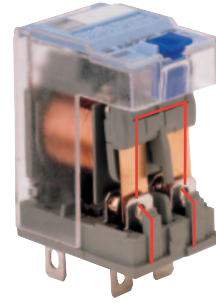
Insulation	Volt rms, 1 min
Contact open	2,5 kV
Contact/coil	2,5 kV
Insulation resistance at 500 V	≥ 1 GΩ
Insulation, IEC 61810-5	2,5 kV/3

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	10 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	43 g

Standard types	
AC 50 Hz/60 Hz: 24, 48, 115, (120), 230, (240) LED	C7-X10/AC ... V C7-X10X/AC ... V
DC 12, 24, 48, 110 LED	C7-X10/DC ... V C7-X10X/DC ... V
Free wheeling diode	C7-X10DX/DC ... V C7-X10FX/DC ... V
Polarity and free wheeling diode	
AC/DC bridge rectifier 24 V, 48 V, 60 V	C7-X10BX/UC ... V

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

Accessories	
Socket:	S7-M, S7-I/O, S7-L, S7-P, S7-P0



Connection diagram

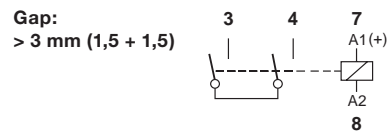


Fig. 1 AC voltage endurance

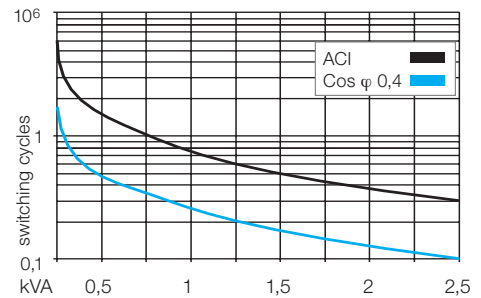
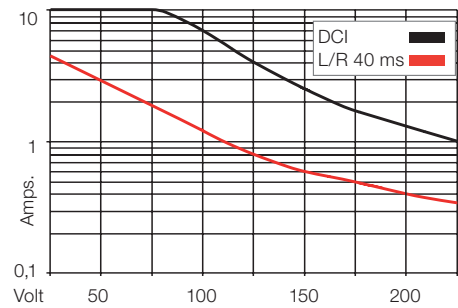
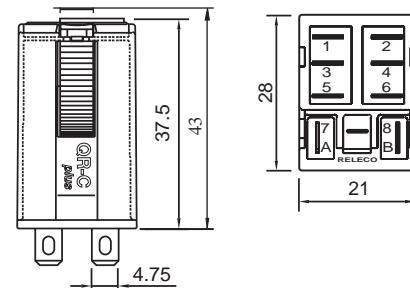


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947



Kühn Controls AG

Notes:

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