

Type **C3-X1x/ ... V**
 Power relays for DC application
 1 pole, NO, double make

Maximum contact load	10 A/250 V AC 1	7 A/110 V DC1
	10 A/30 V DC 1	1,2 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 (Fig 1) 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 2,4 VA (AC)/1,3 W (DC)

Coil table

VAC	Ω	mA	VDC	Ω	mA
24	65	100	24	443	54
48	286	50	48	1K7	27
115	1K7	21	110	9K2	12
230	6K8	10	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 ≥ 1 GΩ
 Insulation, IEC 61810-1 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 ops AC: 10 Mill./DC: 20 Mill.
 DC voltage endurance at rated load ≥ 100000 switching cycles
 Switching frequency at rated load ≤ 1200/ops/h
 Protection class IP40
 Weight 90 g

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

C3-X10/AC ... V
C3-X10X/AC ... V
C3-X10R/AC ... V
C3-X10/DC ... V
C3-X10X/DC ... V
C3-X10DX/DC ... V
C3-X10FX/DC ... V
C3-X10BX/UC ... V

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

Accessories
 Socket: **S3-B, S3-S, S3-L, S3-P, S3-P0, S3-MP, S3-MS**
 Optional accessories (blanking plug): **SO-NP, SO-OP**



Connection diagram

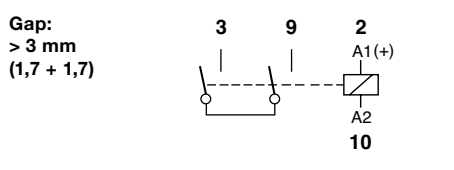


Fig. 1 AC voltage endurance

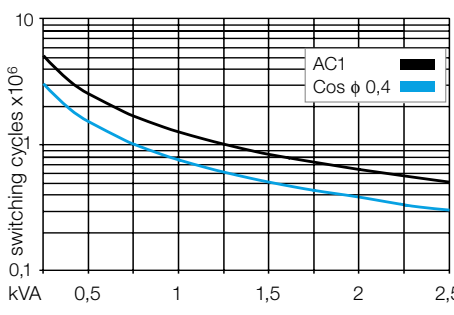
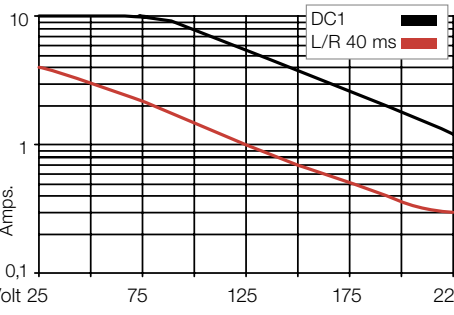
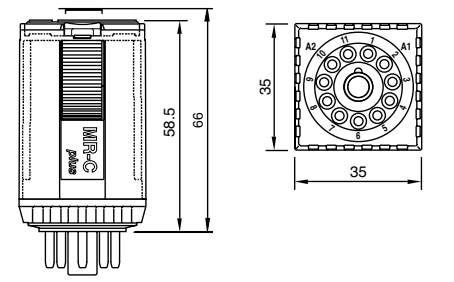


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947