

Type: **C7-W1x/ ... V**
Power relay for high inrush current
1 pole normally open

Maximum contact load: **10 A/250 V AC-1** **6 A/250 V AC-5a/b**
Recommended minimum contact load: **10 mA/10 V**

Contacts

Material	Standard	Code 0	AgNi/W
Rated current			10 A
Switch-on current max. (2,5 ms)			500 A
Switching voltage max.			250 V
AC load (Fig 1)			2,5 kVA
DC load			see fig. 2

Coil

Coil resistance	see table; tolerance $\pm 10\%$
Pick-up voltage	$\leq 0,8 \times U_N$
Release voltage	$\geq 0,1 \times U_N$
Nominal power	1,5 VA (AC)/1,5 W (DC)

Coil table

VAC	Ω	mA	VDC	Ω	mA
24	153	62	12	99	121
48	611	31	24	388	61
115	3K6	13	48	1K5	32
230	14K5	6,5	110	8K	14

Insulation

	Volt rms, 1 min
Contact open	1000 V
Contact/coil	2,5 kV
Insulation resistance at 500 V	$\geq 1 \text{ G}\Omega$
Insulation, IEC 61810-1	2,5 kV

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 /h
Protection class	IP40
Weight	43 g

Standard types

VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240) LED

C7-W10/AC ... V
C7-W10X/AC ... V

VDC 12, 24, 48, 110 LED

C7-W10/DC ... V
C7-W10X/DC ... V
C7-W10DX/DC ... V
C7-W10FX/DC ... V

Free wheeling diode
Polarity and free wheeling diode

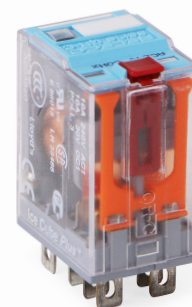
AC/DC bridge rectifier 24 V, 48 V, 60 V

C7-W10BX/UC ... V

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

Accessories

Socket: **S7-C, S7-I/O, S7-L, S7-P, S7-PO**
Optional accessories (blanking plug): **S9-NP, S9-OP**



Connection diagram

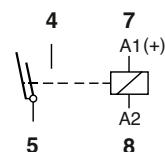


Fig. 1 AC voltage endurance

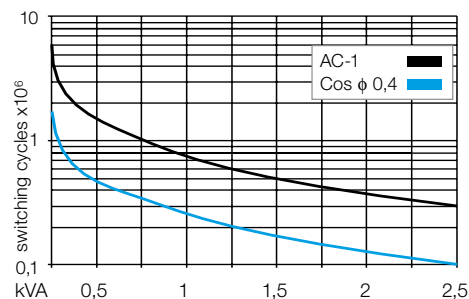
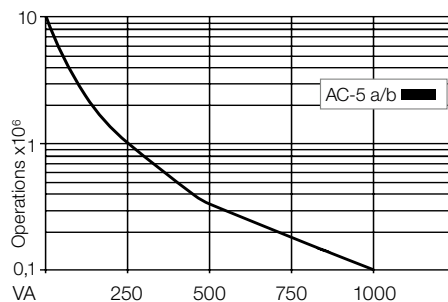
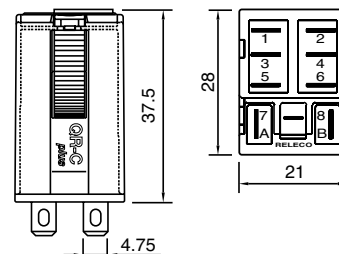


Fig. 2 AC voltage endurance



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947