



Type	C90-A4x/...V Standard relays 4 change-over contacts
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Maximum contact load	5 A / 50 V AC 1, 5 A / 30 V DC1
Recommended minimum contact load	10 mA / 10 V C90-A41/...V 5 mA / 5 V C90-A42/...V

Contacts			
Material	Standard	C90-A41/...V	AgNi
	Optional	C90-A42/...V	AgNi + 5 μ Au
Rated current			5 A
Switch-on current max. (20 ms)			15 A
Switching voltage max (same polarity)			250 V
AC load (Fig. 1)			1.250 kVA
DC load			see Fig. 2

Coil	
Coil resistance	see table; tolerance ± 10 %
Pick-up voltage	≤ 0.8 × U _N
Release voltage	≥ 0.1 × U _N
Nominal power	1.5 VA (AC) / 1 W (DC)

Coil Table						
VAC	Ω	mA	VDC	Ω	mA	
24	190	53	12	140	86	
48	770	25	24	600	40	
120	4K7	12	48	2K4	20	
230	17K	6	110	12K5	8,8	
240	19K1	5,3				

Insulation	
Pulse (1.2 / 50 μs) / Dielectric strength (V rms, 1 minute)	
Contact / coil	4 kV / 2 kV
Contact / contact	2.5 kV / 2 kV
Contact / open	1.5 kV / 1 kV

Specifications	
Ambient temperature operation / storage	-40 (no ice) ...60 °C / -40...80 °C
Pick-up time / bounce time	10 ms / ≤ 3 ms
Release time / bounce time	6 ms / ≤ 1 ms
Mechanical life ops	AC: 10 Mill. / DC: 20 Mill.
DC voltage endurance at rated load	≥100000 switching cycles
Protection class	RT1
Weight	36 g

Standard types		
V AC 50 Hz / 60 Hz: 24, 28, 120, 230, 240	C90-A41/AC...V	C90-A42/AC...V
LED	C90-A41X/AC...V	C90-A42X/AC...V
V DC 50 Hz / 60 Hz: 12, 24, 48, 110	C90-A41/DC...V	C90-A42/DC...V
LED	C90-A41X/DC...V	C90-A42X/DC...V
Free wheeling diode	C90-A41DX/DC...V	C90-A42DX/DC...V

«...» Enter the voltage for the full type designation

Accessories	
Socket:	S9-M, S9-L, S9-P, S9-P0

Connection diagram

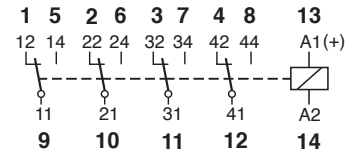


Fig. 1 AC voltage endurance

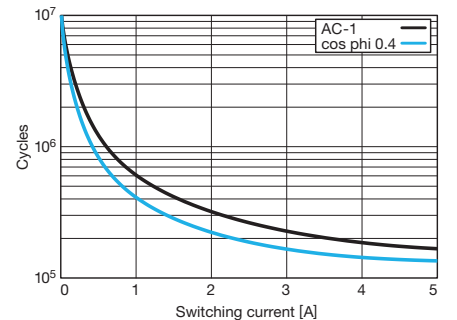
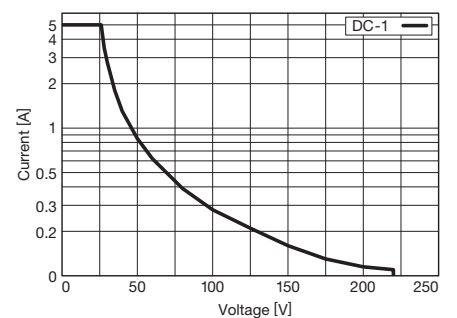
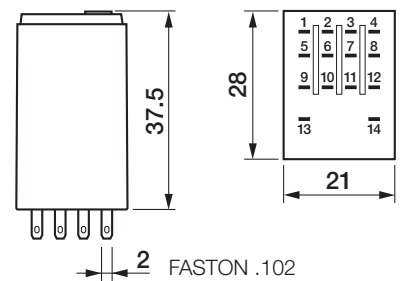


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

