

Type	C70-A20/...V Standard relay 2 change-over contact	
Maximum contact load	10 A / 250 V AC1 10 A / 30 V DC1	0,5 A / 110 V DC1 0,2 A / 220 V DC1
Recommended minimum contact load	10 mA / 10 V	
Contacts		
Material	AgNi	
Rated current	10 A	
Switch-on current max. (20 ms)	20 A	
Switching voltage max.	250 V	
AC load (Fig. 1)	2.5 kVA	
DC load	see Fig. 2	

Coil

Coil resistance	see table; tolerance $\pm 10\%$
Operating voltage range	$0.8 \dots 1.1 \times U_N$
Release voltage	$\geq 0.2 \times U_N$ (AC) / $\geq 0.1 \times U_N$ (DC)
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 μ s) / Dielectric strength (V rms, 1 minute)	
Contact / coil	4 kV / 2.5 kV
Contact / contact	4 kV / 2.5 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	16 ms / ≤ 3 ms
Release time / bounce time	8 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	37 g

Standard types

V AC 50 Hz/60 Hz: 24, 28, 120, 230, 240
LED

V DC 50 Hz/60 Hz: 12, 24, 48, 110
LED

Free wheeling diode

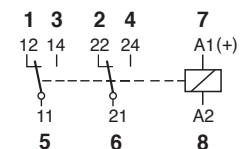
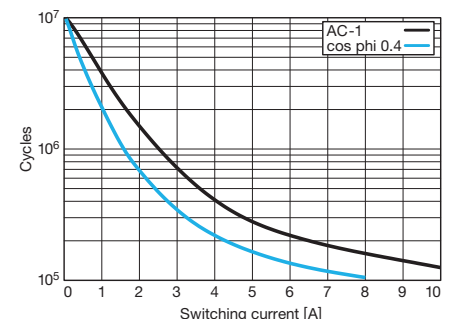
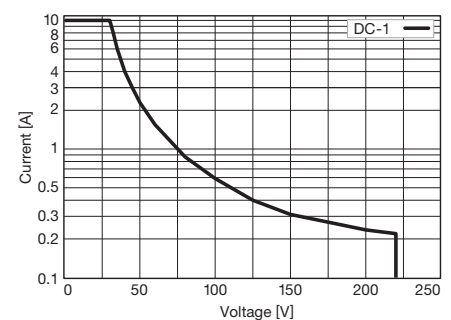
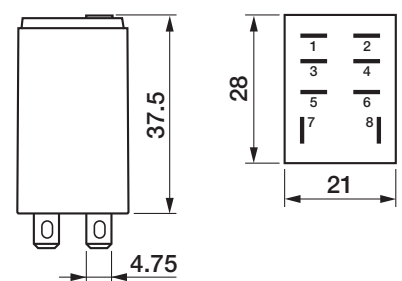
C70-A20/AC...V
C70-A20X/AC...V

C70-A20/DC...V
C70-A20X/DC...V
C70-A20DX/DC...V

«...» Enter the voltage for the 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**



Type	C90-A4x/...V		
	Standard relays		
	4 change-over contacts		
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 $\pm 10\%$				
Operating voltage range	$0.8 \dots 1.1 \times U_N$				
Release voltage	$\geq 0.2 \times U_N$ (AC) / $\geq 0.1 \times U_N$ (DC)				
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
LED

V DC 50 Hz / 60 Hz: 12, 24, 48, 110
LED

Free wheeling diode

C90-A41/AC...V
C90-A41X/AC...V

C90-A42/AC...V
C90-A42X/AC...V

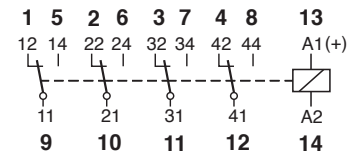
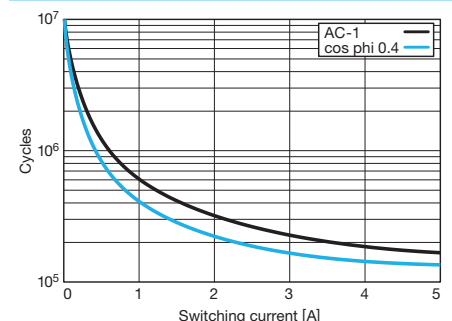
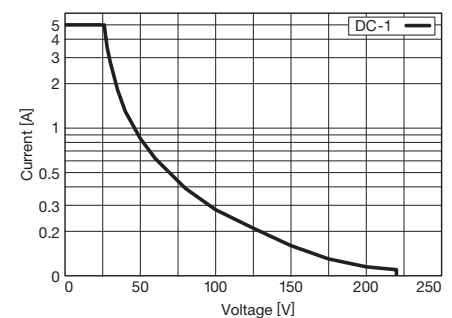
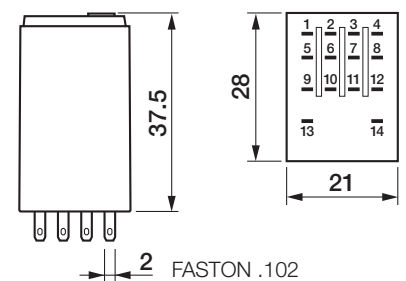
C90-A41/DC...V
C90-A41X/DC...V
C90-A41DX/DC...V

C90-A42/DC...V
C90-A42X/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**