

C7-A1x

5-pin, miniature relay, 1-pole, faston



Type	C7-A1x/ ... V Standard relay 1 change-over contact		
Maximum contact load	16 A/250 V AC1	0,5 A/110 V DC1	
	16 A/30 V DC1	0,2 A/220 V DC1	
Contacts			
Material	Standard	Code 0	AgNi
Rated current			16 A
Switch-on current max. (20 ms)			40 A
Switching voltage max.			250 V
AC load (Fig 1)			4 kVA
DC load			see Fig. 2
Relay compatible with socket S7-16			

Coil		
Coil resistance	see table; tolerance ± 10 %	
Pick-up voltage	≤ 0,8 × U _N	
Release voltage	≥ 0,1 × U _N	
Nominal power	1,2 VA (AC)/1,3 W (DC)	

Coil table						
VAC	Ω	mA	VDC	Ω	mA	
24	174	50	12	111	108	
48	686	25	24	432	55	
115	4K3	10,4	48	1K7	28	
230	18K6	5,2	110	9K2	12	

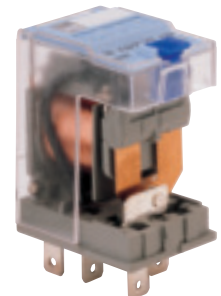
Insulation	Volt rms, 1 min
Contact open	1000 V
Contact/coil	2,5 kV
Insulation resistance at 500 V	≥ 1 GΩ
Insulation, IEC 61810-1	2,5 kV/3

Specifications	
Ambient temperature operation/storage	-40 (no ice)...60 °C /-40 ... 80 °C
Pick-up time/bounce time	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
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-A10/AC ... V C7-A10X/AC ... V
VDC 12, 24, 48, 110 LED	C7-A10/DC ... V C7-A10X/DC ... V
Free wheeling diode	C7-A10DX/DC ... V
Polarity and free wheeling diode	C7-A10FX/DC ... V
AC/DC bridge rectifier 24 V, 48 V, 60 V	C7-A10BX/UC ... V

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

Accessories	
Socket:	S7-16



Connection diagram

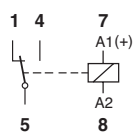


Fig. 1 AC voltage endurance

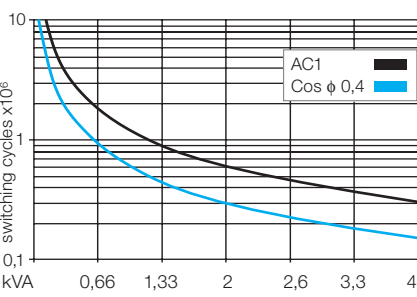
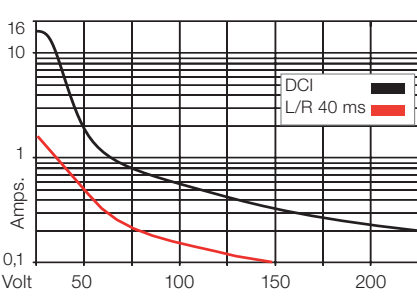
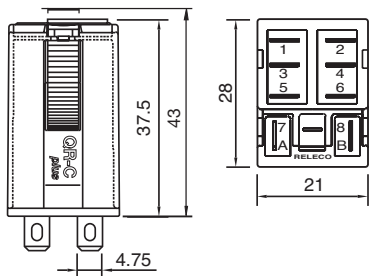


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities



IEC 61810; EN 60947