

Relay compatible
with sockets:

S7-16

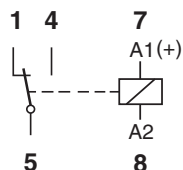


Table 1 Electrical Life, ops. x 10⁶

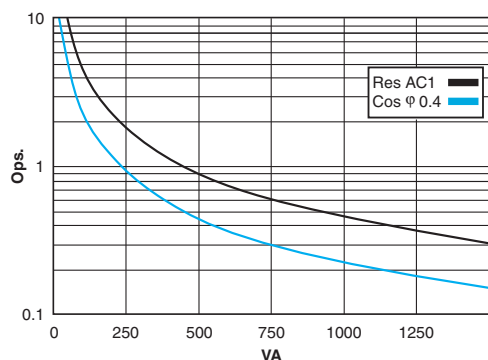
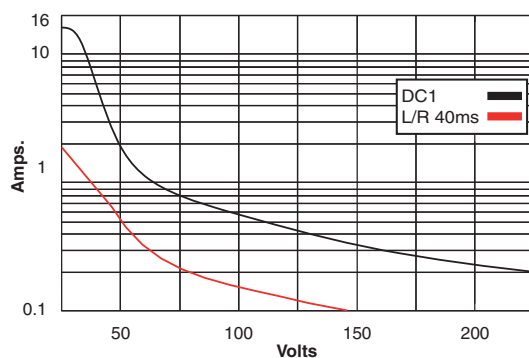
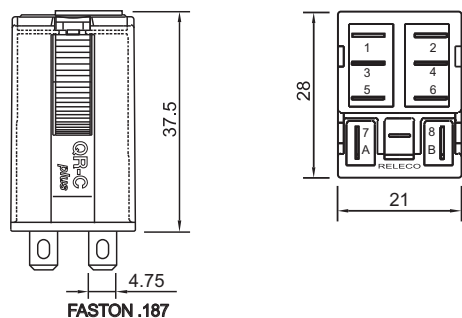


Table 2 Max. DC Load



Dimensions - mm



C7-A10



General purpose

One change-over contact, 16 A

16 A 250 V AC1 0.5 A 110 V DC1
16 A 30 V DC1 0.2 A 220 V DC1

Contacts

Materials: Standard, code 0 AgNi
Max. switching current 16 A
Max. peak inrush current (20 ms) 40 A
Max. switching voltage 250 V
Max. AC load (Table 1) 4 KVA
Max. DC load (Table 2)
Only plug-in S7-16 socket

Coils (Ohms ±10% @ 20°C)

Pull-in voltage ≤0.8 x U_n
Drop-out voltage ≥0.1 x U_n
Nominal coil power 1.2 VA (AC)/1.3 W (DC)

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

Dielectric strength (1 minute): Open contacts 1,000 V
Between contacts and coil 2.5 KV
Isolation resistance at 500 V ≥1 GΩ
Isolation, IEC 61810-5: 2.5 KV/3

Specifications

Operate time + bounce time 16 ms
Release time + bounce time 8 ms
Ambient temperature -40°C (no ice) to +70°C
Mechanical life ops. 10 Mill. AC, 20 Mill. DC relays
Electrical life at nominal load ≥100,000 ops.
Operating frequency at nominal load 1,200/hour
Protection degree IP 40/RT1
Weight avg. 43 g

Standard Types

AC 50 Hz, (60 Hz): 24, 48, 115, (120), 230, (240)

X = LED (standard)

C7-A10X.....VAC

DC 12, 24, 48, 110,

X = LED, no polarity (standard)

C7-A10X.....VDC

Free-wheeling diode

C7-A10DXVDC

Polarity and free-wheeling diodes

C7-A10FX.....VDC

AC/DC bridge rectifier (24, 48 or 60 V)

C7-A10BXVDC



IEC 61810 EN 60947