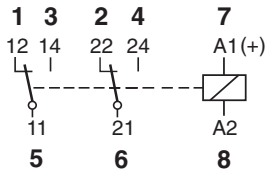


**Relay compatible with sockets:**

S7-M, S7-L, S7-P, S7-PO, S7-PI



# C7-A20



General purpose  
Two pole, change-over contacts

**10 A 250 V AC1     0.5 A 110 V DC1**  
**10 A 30 V DC1     0.2 A 220 V DC1**

### Contacts

Materials: Standard, code 0 AgNi  
Optional, code 8 AgNi + 10μ Au  
Optional, code 9 AgNi + 0.2μ Au

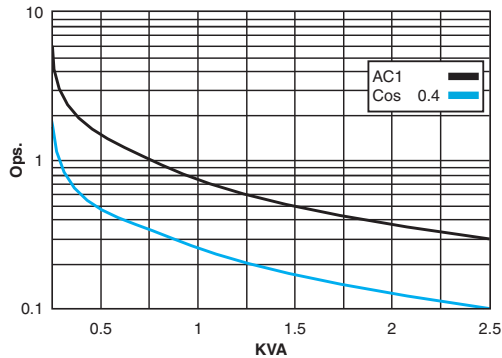
Max. switching current 10 A  
Max. peak inrush current (20 ms) 30 A  
Max. switching voltage 250 V  
Max. AC load (Table 1) 2.5 KVA  
Max. DC load (Table 2)

### Coils (Ohms ±10% @ 20°C)

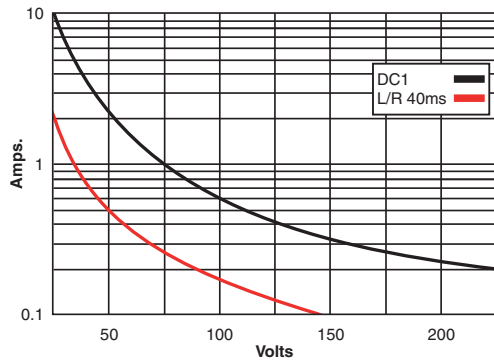
Pull-in voltage ≤0.8 x **U<sub>n</sub>**  
Drop-out voltage ≥0.1 x **U<sub>n</sub>**  
Nominal coil power 1.2 VA (AC)/1 W (DC)

| VAC | Ω    | mA   | VDC | Ω    | mA |
|-----|------|------|-----|------|----|
| 24  | 174  | 50   | 12  | 148  | 85 |
| 48  | 686  | 25   | 24  | 594  | 43 |
| 115 | 4K3  | 10.4 | 48  | 2k3  | 21 |
| 230 | 18K6 | 5.2  | 110 | 11K4 | 11 |

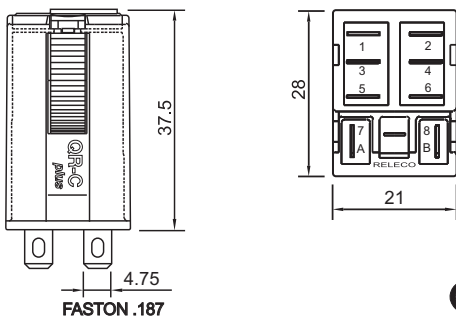
**Table 1** Electrical Life, ops. x 10<sup>6</sup>



**Table 2** Max. DC Load



### Dimensions - mm



### Insulation

Dielectric strength (1 minute): Open contacts 1,000 V  
Between adjacent poles 2.5 KV  
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, 72, 115, (120), 230, (240)**  
X = LED (standard) **C7-A20X.....VAC**

**DC 12, 24, 48, 72, 110,**  
X = LED, no polarity (standard) **C7-A20X..... VDC**  
Free-wheeling diode **C7-A20DX .... VDC**  
Polarity and free-wheeling diodes **C7-A20FX..... VDC**  
AC/DC bridge rectifier (24, 48 or 60 V) **C7-A20BX .... VDC**