

C12-A20FX/DC110V  
2 pole | Changeover contact | Faston



Main circuit

|                                                  |                  |
|--------------------------------------------------|------------------|
| Available contact materials                      | AgNi             |
| Recommended minimum contact load                 | 10 mA / 10 V     |
| Maximum contact load AC                          | 5 A / 250 V AC-1 |
| Maximum contact load DC                          | 5 A / 30 V DC-1  |
| Inrush current                                   | 15 A, 20 ms      |
| Rated load AC                                    | 1 200 VA         |
| Rated load DC                                    | fig. 3.          |
| Rated current                                    | 5 A              |
| Mechanical endurance (cycles)                    | ≥ 10 000 000     |
| Electrical endurance at rated load AC-1 (cycles) | ≥ 100 000        |

Control circuit

|                           |                                           |
|---------------------------|-------------------------------------------|
| Nominal voltage           | see table product references              |
| Operating voltage range   | 0.8 U <sub>N</sub> ... 1.1 U <sub>N</sub> |
| Pick-up voltage           | ≤ 0.8 U <sub>N</sub>                      |
| Release voltage           | ≥ 0.1 U <sub>N</sub>                      |
| Power consumption AC / DC | 1.1 VA / 0.7 W                            |

Coil table

| U <sub>DC</sub> (V) | R(Ω)   | I(mA) |
|---------------------|--------|-------|
| 110                 | 19 923 | 5.5   |

Insulation

|                                |              |
|--------------------------------|--------------|
| Test voltage open contact      | 1 kV / 1 min |
| Test voltage contact / contact | 3 kV / 1 min |
| Test voltage contact / coil    | 5 kV / 1 min |
| Overvoltage category           | III          |
| Insulation resistance at 500 V | ≥ 1 GΩ       |
| Pollution degree               | 3            |

General data

|                                           |                |
|-------------------------------------------|----------------|
| Storage temperature (no ice)              | -40 ... 80 °C  |
| Operation temperature                     | -40 ... 60 °C  |
| Pick-up time / bounce time                | 10 ms / ≤ 1 ms |
| Release time / bounce time                | 5 ms / ≤ 3 ms  |
| Maximum switching frequency at rated load | 1 200 / h      |
| Dimensions                                | fig. 4.        |
| Weight                                    | 21 g           |
| Housing material                          | PA / PC        |

Product references

| Description                      | Type             | 110 |
|----------------------------------|------------------|-----|
| LED & Pol. & Free wheeling diode | C12-A2xFX/DC...V | ✓   |

Accessories

|        |                    |
|--------|--------------------|
| Socket | S12, S12-PI, S12-P |
|--------|--------------------|



fig. 1. Wiring diagram

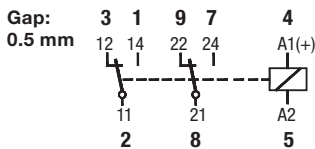


fig. 2. AC voltage endurance

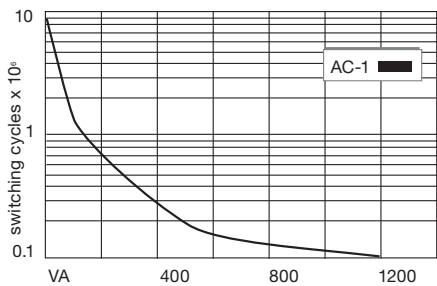


fig. 3. DC load limit curve

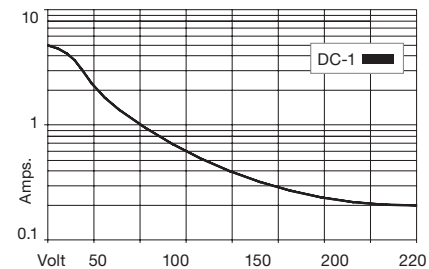
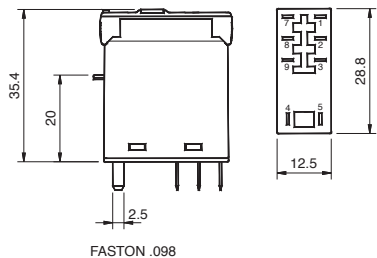


fig. 4. Dimensions (mm)



Technical approvals, conformities

Standards IEC/EN 61810; IEC/EN 60947

