

**FRS6**



**Subminiature Light Duty Relay**

- Low coil power consumption
- Small size and low cost
- PCB mounting
- Switching capacity from 1Amp to 5Amp
- Dust cover or sealed type

Recognized File No.: E 141516

**Technical data**

**Characteristics**

- Contact Arrangement: DPDT (2 Form C)
- Contact Material: Silver Alloy
- Contact Resistance: 50mΩ Max.
- Contact Rating (Resistive Load):
  - 1A 28VDC/125VAC
  - 3A 28VDC/125VAC
  - 5A 28VDC/125VAC
  - UL and cUL Approved Ratings:  
1A 277VAC/30VDC 5A 277VAC/30VDC
- Operate Time (Initial): 10 ms Max.
- Release Time (Initial): 5 ms Max.
- Insulation Resistance: 100MΩ Min. (500V DC)
- Dielectric Strength:
  - 750Vrms 1 minute between open contacts
  - 1000Vrms 1 minute between coil and contact
- Shock Resistance: 10g Approx.
- Vibration : 1.5mm Double Amplitude, 10-55Hz
- Ambient Temperature: -40 °C to +70 °C
- Operation Life:
  - Mechanical: 10<sup>7</sup>
  - Electrical: 10<sup>5</sup>
- Weight: 12g Approx.

**Coil rating**

Rated Voltage (VDC)	Coil Resistance Ω +/- 10%	Rated Current (mA)	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)
			% of rated voltage (at +20 °C)			
3	20	150	75 Max.	10 Min.	130 Max.	0.45 Approx.
6	80	75				
9	180	50				
12	320	37.5				
24	1200	20				

**Ordering information**

**FRS6 - S 5 - DC 12V**

Rated voltage

- 1: 1Amp
- 3: 3Amp
- 5: 5Amp

NIL: Unsealed type  
S: Sealed type

Relay model

**DIMENSIONS (mm)**

