

**FRM8**



- Subminiature, standard PC layout
- High switching capacity in a compact package
- SPST (N.O.) and SPDT (N.O. and N.C.) configurations
- High sensitivity: 0.2W (SPST), 0.4W (SPDT)
- Use on control, air conditioner and heating control of small appliances
- Dust cover or sealed type

Recognized File No.: E 141516

**Technical data**

**Characteristics**

- Contact Arrangement: SPST (1 Form A), SPDT (1 Form C)
- Contact Material: Silver Alloy
- Contact Resistance: 100mΩ Max. (Measured at 1A 24VDC)
- Contact Rating (Resistive Load):
  - SPST (N.O.): 10A 125VAC 5A 250VAC/30VDC
  - SPDT (N.O.): 10A 125VAC 5A 250VAC/30VDC
  - (N.C.): 3A 250VAC/30VDC
- Switching Voltage: DC 30V Max. AC 250V Max.
- Operate Time (Initial): 8 ms Max.
- Release Time (Initial): 5 ms Max.
- Insulation Resistance: 1000MΩ Min. (500V DC)
- Dielectric Strength:
  - 1000V AC (50 Hz/min.) between open contacts
  - 4000V AC (50 Hz/min.) between coil and contact
- Shock Resistance:
  - Malfunction: 100 m/s<sup>2</sup>
  - Mechanical: 1000 m/s<sup>2</sup>
- Vibration : 1.6mm Double Amplitude, 10-55 Hz
- Ambient Temperature: -40 °C to +70 °C
- Operation Life:
  - Mechanical: 10<sup>7</sup>
  - Electrical: 10<sup>5</sup> (At rated load)
- Weight: 7g Approx.

**Coil rating**

Rated Voltage (V DC)	Coil Resistance Ω +/- 10%		Rated Current (mA)		Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption
	FRM8	FRM8H	FRM8	FRM8H				
3	20	45	150	66.7	75 Max.	5 Min.	130 Max.	FRM8: 0.45W FRM8H: 0.2W For 1 Form A only
5	55	125	91	40				
6	80	180	75	33.3				
9	180	400	50	22.5				
12	320	700	37.50	16.7				
18	720	1600	25	11.2				
24	1280	2800	18.80	8.5				
48	5120	11580	9.4	4.1				

**Ordering information**

**FRM8 H A - S DC 12V**

Rated voltage

NIL: Unsealed type

S: Sealed type

Contact arrangement:

A = 1 Form A

C = 1 Form C

Sensitivity:

NIL: 0.45W

H: 0.2W

Relay model

**DIMENSIONS (mm)**

