

FRS8



- Low cost, high reliable
- Small size and light weight
- Print circuit terminal, fit grid with 2.54mm
- Switching capacity up to 12A with AGSNO2 contacts
- Dust cover or sealed type

  Recognized File No.: E 141516(N)

 Recognized File No.: R9858273

Technical data

Characteristics

- Contact Arrangement: SPST (1 Form A), SPDT (1 Form C)
- Contact Material: Silver Alloy
- Contact Resistance: 50mΩ Max.
- Contact Rating (Resistive Load):
 - 5A 28VDC/125VAC
 - 10A 28VDC/125VAC
 - 12A 28VDC/125VAC 10A 240VAC/28VDC 6A 300VAC/28VDC
 - N.O.
 - 1/6HP 2.2 FLA 13.2 LRA 240VAC (FRS8N: 1/3 HP 120VAC)
 - 1/10HP 3.0 FLA 18.0 LRA 120VAC
 - 48 VA Pilot Duty 24VAC
 - N.C.
 - 1/10HP 1.5 FLA 6 LRA 240VAC
 - 2.0 FLA 12 LRA 120VAC
 - 25VA Pilot Duty 24VAC
 - TUV Rating: 12 = 10A 28VDC/250VAC
- Switching Voltage: DC 110V Max. AC 380V Max.
- Operate Time (Initial): 7 ms Max.
- Release Time (Initial): 4 ms Max.
- Insulation Resistance: 500MΩ Min. (500V DC)
- Dielectric Strength:
 - FRS8/FRS8N: 1000V AC (50 Hz/min.) between open contacts
 - FRS8: 2000V AC (50 Hz/min.) between coil and contact
 - FRS8N: 4000V AC (50 Hz/min.) between coil and contact
- Shock Resistance: 10g Approx.
- Vibration Resistance: 1.5mm Double Amplitude, 10-50Hz
- Ambient Temperature: -40 °C to -85 °C
- Humidity: 20 - 85% RH
- Operation Life:
 - Mechanical: 10⁷
 - Electrical: 10⁵ (At rated load)
- Weight: 11g 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	1280	18.7				
48	5120	9.3				

Ordering information

FRS8 N C - S 10 DC 12V

Rated voltage

Contact capacity:

05 : 5A

10 : 10A

12 : 12A (12A 125VAC) (10A 240VAC)

NIL: Dust cover

S: Sealed type

Contact arrangement:

A = 1 Form C = 1 Form C

NIL: 2000Vrms dielectric strength

N : 4000Vrms dielectric strength

Relay model

DIMENSIONS (mm)

