

**FRC3**



- Small size and high contact rating 70A
- High temperature design
- Plug in or P.C. board terminal
- Optional mounting bracket

**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):  
NO: 70A 14V DC  
NC: 60A 14V DC
- Switching Voltage: DC 75V Max.
- Operate Time (Initial): 10 ms Max. Typical
- Release Time (Initial): 10 ms Max. Typical
- Insulation Resistance: 100MΩ Min. (500V DC)
- Shock Resistance: 20g Approx.
- Dielectric Strength: 500Vrms between coil and contact
- Vibration Resistance: 1.5mm Double Amplitude, 10-55Hz
- Ambient Temperature: -40 °C to +85 °C
- Humidity: 45 - 85% RH
- Operation Life:
  - Mechanical: 10<sup>7</sup>
  - Electrical: 10<sup>5</sup> (At rated load)
- Weight: 47g 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)			
12	80	150	65 Max.	10 Min.	150 Max.	1.8 Approx.
24	320	75				

If use resistor: 12VDC with 680Ω - 24VDC with 2702Ω

**Ordering information**

**FRC3 A - 1 A N S - DC 12V**

Rated voltage

NIL : Unsealed type  
S : Sealed type

NIL : Standard type  
N : with Diode  
R : Resistor

NIL : Plug in type  
A : PCB type

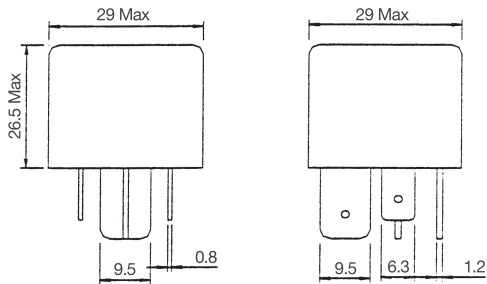
NIL : Moulded bracket dust cover  
1 : Plain dust cover  
2 : Metal bracket dust cover (no sealed type)

Contact arrangement: A = 1 Form A C = 1 Form C

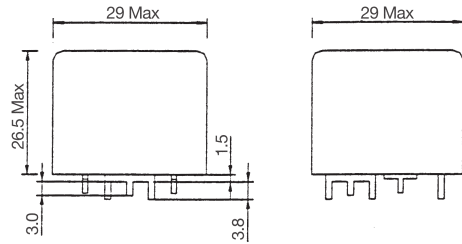
Relay model

**DIMENSIONS (mm)**

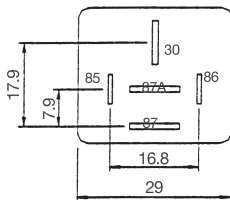
Plug in Type Terminal  
(Plain dust cover)



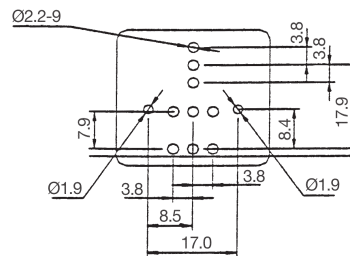
PCB Type Terminal



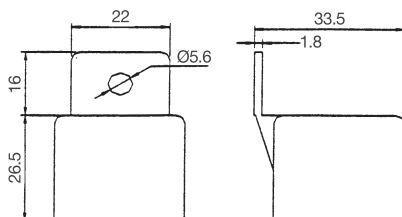
Plug in Type Terminal  
(Bottom view)



PCB Type Terminal  
(Bottom view)



Moulded Bracket Dust Cover



Terminal Arrangement  
(Bottom view)

