

## Features

Small size & high contact rating 150A  
 High temperature design  
 Ideal for using in automobile  
 Plug in terminal



## Ordering information

**FRC6 B A - 1 - A N DC12V**  
 1 2 3 4 5 6 7

1 Relay model	6 Coil suppression: NIL: Standard type; N : With diode; R: Resistor; T : With transil (DB-03)
2 Contact rating: NIL: 100A 12VDC; B: 150A 12VDC	7 Rated voltage Note: RoHS-1 : RoHS compliant relay RoHS-I : AgNi contact RoHS-N: AgSnO <sub>2</sub> contact
3 Contact arrangement: A: 1 Form A; C: 1 Form C	
4 Mounting termination: 1: Plain dust cover	
5 Construction: NIL: Plug in type; A: PCB type	

## Coil rating

Rated voltage (V)	Coil resistance $\Omega$ +/- 10%	Rated current (mA)	Must operate voltage	Must dropout voltage	Maximum voltage (V)	Power consumption (W) Approx.	Operate time (ms)	Release time (ms)
			% of rated voltage (at 20°C)					
12	50	240	65 Max.	10 Min.	130 Max.	2.9	<10	<5
24	195	123						

\*If with resistor:  
 12VDC with 680 $\Omega$  +/- 10%  
 24VDC with 2,700 $\Omega$  +/- 10%

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
 2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

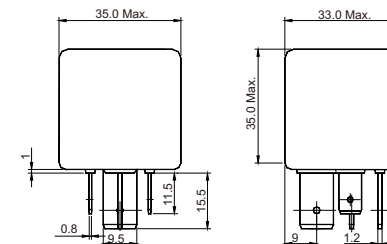
## Characteristics

Contact arrangement	SPST (1 Form A); SPDT (1 Form C)	
Contact material	Silver alloy	
Contact resistance	30m $\Omega$ Max.	
Contact rating (resistive)	FRC6 : N.O.: 100A 12VDC; N.C.: 80A 12VDC FRC6B: N.O.: 150A 12VDC; N.C.: 100A 12VDC	
Switching power	1,800W Max.	
Switching voltage	DC 75V Max.	
Switching current	150A Max.	
Voltage drop	≤200mV (at contact rating)	
Insulation resistance	100M $\Omega$ Min. (500VDC)	
Dielectric strength	500VAC (50Hz/min)	
Shock resistance	147m/s <sup>2</sup> 11ms	
Vibration resistance	1.5mm Double amplitude 10-40Hz	
Ambient temperature	-40°C to +85°C (Special request up to 125°C)	
Humidity	85% RH, 40°C	
Operation life	Mechanical	10 <sup>7</sup>
	Electrical	10 <sup>5</sup> (at rated load)
Weight	60g Approx.	

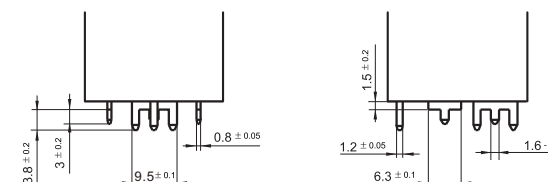
(Specifications are subject to change without notices.)

## Dimensions

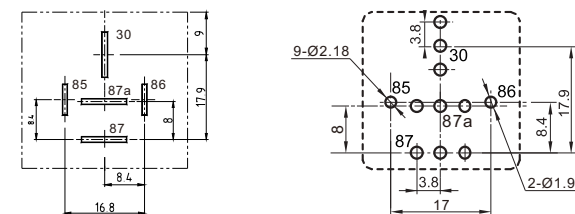
mm



## PCB type terminal



## Mounting holes



## Wiring diagram

