

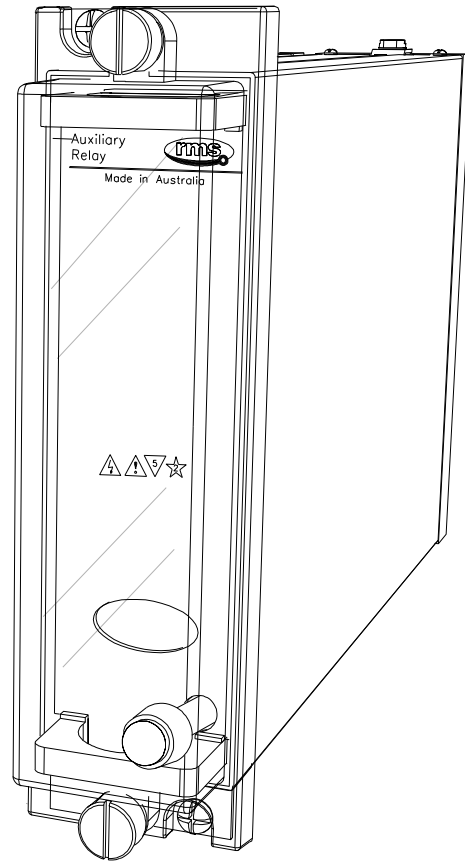
Features

- High speed operation
- Low burden
- Hand reset contacts & flag
- 5 or 10 contacts
- Equivalent function to MVAJ13
- 2HSM504 specification

Application

The effect of a fault on a power system is dependent on the speed with which the fault can be detected & isolated. The 6RJ Series multi-contact high-speed trip relays are used for this isolating function providing simultaneous tripping outputs.

A high speed coil provides fast operation (<10ms at nominal voltage), with specially constructed anti bounce buffers ensuring effective damping of the contacts to avoid excessive bounce.



2M28 draw out case

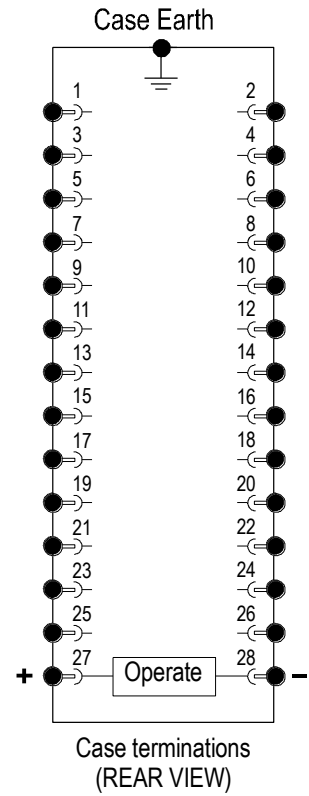
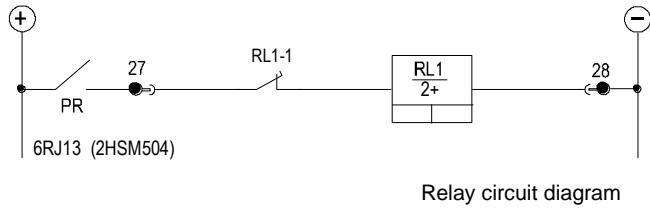
Low Burden 5 & 10 Contact Tripping Relay

The 6RJ13 is a low burden hand reset high speed tripping relay suitable for applications where immunity to capacitance discharge & high minimum operation currents is not required.

The high speed relay coil is automatically protected from thermal damage by a series cut throat contact once the relay contacts have picked up & latched.

The contacts & trip flag indication operate on application of a control voltage. The contacts & flag are reset using the front panel push button.

Terminal Wiring



6RJ13-5 Terminal Numbers					
Contacts	1-3	2-4	5-7	6-8	9-11
5M	M	M	M	M	M
4M+1B	M	M	M	M	B
3M+2B	M	M	M	B	B
2M+3B	M	M	B	B	B
1M+4B	M	B	B	B	B
5B	B	B	B	B	B

6RJ13-10 Terminal Numbers										
Contacts	1-3	2-4	5-7	6-8	9-11	10-12	13-15	14-16	17-19	18-20
10M	M	M	M	M	M	M	M	M	M	M
9M+1B	M	M	M	M	M	M	M	M	M	B
8M+2B	M	M	M	M	M	M	M	M	B	B
7M+3B	M	M	M	M	M	M	M	B	B	B
6M+4B	M	M	M	M	M	M	B	B	B	B
5M+5B	M	M	M	M	M	B	B	B	B	B
4M+6B	M	M	M	M	B	B	B	B	B	B
3M+7B	M	M	M	B	B	B	B	B	B	B
2M+8B	M	M	B	B	B	B	B	B	B	B
1M+9B	M	B	B	B	B	B	B	B	B	B
10B	B	B	B	B	B	B	B	B	B	B



OPERATING BURDEN (Burden during pick up at nominal)
 Low burden relays: 50W Maximum

OPERATED BURDEN
 Hand reset contacts: Zero

COIL THERMAL RATING
 The operate circuit is designed to withstand continuous application of 120% of nominal voltage. The high speed operate coil element (50 watt max.) has a thermal rating of 30 seconds, however this is protected by use of an instantaneous series cut-off contact arrangement.

OPERATING TIME
 Less than 10ms at nominal rated operating voltage.

CONTACT OPERATION
 Latching contacts with the front panel hand reset button. Holding the reset button in the depressed position with a trip signal is applied may result in thermal damage to the high speed operate coil.

FLAG OPERATION
 Drops on coil energisation.
 Hand reset with the contacts.

OPERATING VOLTAGE RANGE
 Guaranteed operation between 65% & 120% of nominal rated operating voltage.

AC VOLTAGES
 Standard 6RJ relays are not intended for operation with AC voltages. Application of continuous AC voltage below the pick up level will cause excessive power dissipation in the capacitor discharge resistor & likely result in thermal damage to the device.

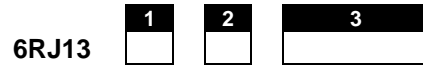
NOMINAL OPERATING VOLTAGES
 24, 32, 48, 60, 110, 125, 220, 240 & 250V DC available.

MINIMUM OPERATING CURRENT
 Low burden relays: 50mA

CONTACTS
 5 or 10 contacts
 User to specify combination of make & break contacts

Ordering Codes

Generate the required ordering code as follows:
 e.g. 6RJ13-10-D-8M2B



1 NUMBER OF CONTACTS

- 5 5 contacts
- 10 10 contacts

2 NOMINAL OPERATE VOLTAGE

- | | | | |
|---|--------|---|---------|
| A | 24V DC | D | 110V DC |
| B | 32V DC | E | 125V DC |
| C | 48V DC | G | 220V DC |
| I | 60V DC | H | 240V DC |
| | | F | 250V DC |

3 CONTACT ARRANGEMENT (Not to exceed maximum)

Specify the number of "MAKES" followed by M; i.e. 8M
 Specify the number of "BREAKS" followed by B; i.e. 2B

6R RELAY CONTACT RATINGS

Make & Carry Continuously

3,000 VA AC resistive with maximums of 660V & 12A
 3,000 W DC resistive with maximums of 660V & 12A

Make & Carry for 3 Seconds

7,500 VA AC resistive with maximums of 660V & 30A
 7,500 W DC resistive with maximums of 660V & 30A

AC Break Capacity

3,000 VA AC resistive with maximums of 660V & 12A

DC Break Capacity (Amps)

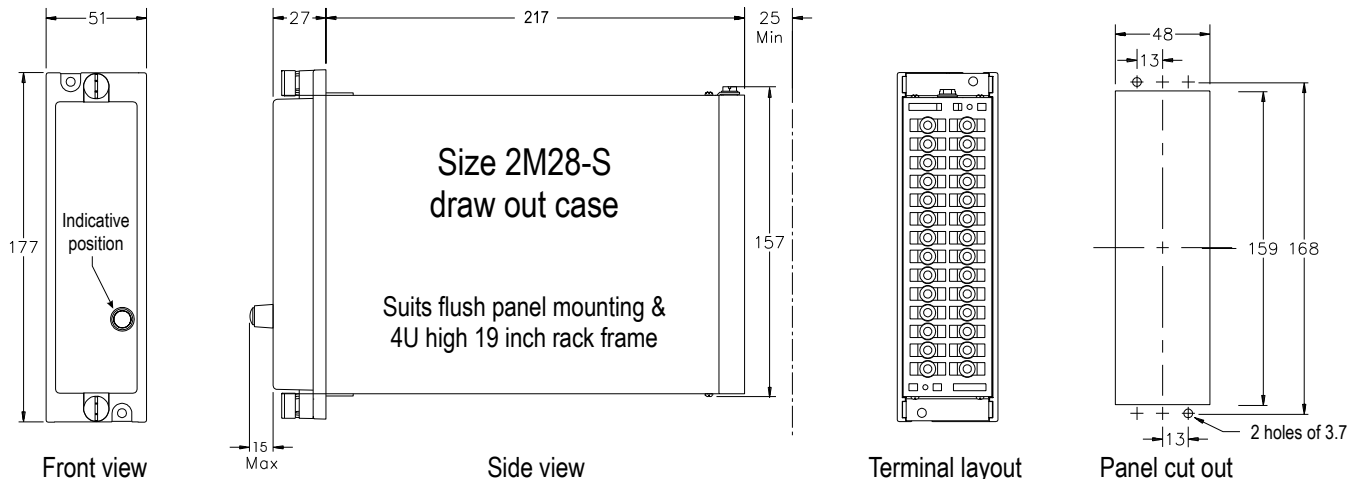
Voltage		24V	48V	125V	250V
Resistive rating		12	2	0.5	0.25
L/R=40ms	Maximum break	12	1	0.25	0.15

INSULATION WITHSTAND in accordance with IEC 255-5:
 2KV RMS & 1.2/50 5KV impulse between:

- ◆ all terminals & frame
- ◆ each contact group
- ◆ all contacts & coil

CASE SIZE

2M28-S draw out case





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RMS holds NCSI (NCS International Pty Limited) registration number 6869 for the certification of a quality system to AS/NZS ISO9001:2008.

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