

# Megawin Switchgear

## MVAJH/MVAJS High Speed Tripping Relay



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## MVAJH High Speed Tripping Relay

### Application

Suitable for high speed tripping duties where a number of simultaneous switching operations are required.

### Features

- They are designed for high speed operation and to ensure positive action without chatter with a high degree of mechanical stability.
- Robust and designed for trouble free operations

### General

A fast operating relay of attracted armature type with multi contacts. The relays are available with hand or self reset contacts in type MVAJH13, MVAJS13 and MVAJHM13

MVAJH13 relays are available in two versions:

- High Burden
- Low Burden

MVAJS 13 relay has self reset contacts and is a high burden relay coil is desired.

The operating current for all types is above 0.025 amp. The relays are suitable for operation on DC supplies fitted with negative potential biasing device.

High burden relays are designed for use with series connection operation indicators and series seal-in units on protective relays. Low burden relays are generally used where a number of simultaneous operations are to be initiated by a single protective relay which doesn't have sufficient contacts of its own and where series connected operation indicators are not used.



# MVAJH/MVAJS High Speed Tripping Relay

## Technical Data

### Coil Rating

30, 50, 110 or 220 Volts DC as standard, other voltage ratings are available on request.

External resistor is supplied with type MVAJS13 relay for 110V and above.

### Voltage Band (for Satisfactory Operation)

50 to 120% of rated voltage

### Operating Time

10 milliseconds nominal, at rated voltage.

### Burden

Relay coil voltage DC	Burden in watts at rated voltage		
	MVAJH13/ MVAJHM13 High burden	MVAJH13 Low burden	MVAJS13
30	150	5	4
50	150	-9	7
110	150	18	14
220	150	37	28

### Thermal rating

MVAJH13 Relay coil short time rated, Hand reset coil cut-off contact provided in series with operating coil.

MVAJS13 120% of rated voltage, continuous

### Operation Indicators

MVAJH13 Hand reset operation indicator

MVAJS13 Hand reset operation indicator provided, when required

## Contact Rating

	Make and Carry continuously	Make and Carry for 3 secs.	Break
AC	1250VA with max of 5 Amps & 660 volts	7500VA with max. of 30 Amps & 660 volts	1250VA with max of 5 Amps & 660 volts
DC	1250 watts with max of 5 Amps & 660 volts	7500VA with max. of 30 Amps & 660 volts	100 watts (resistive) 50 watts (inductive) with max of 5 Amps & 660 volts

## Case and Finish

Relays are available in non-drawout cases of size ¼ N & ½ N. The cases are suitable for flush mounting and are finished bright back

## Insulation

As per IS 3231 : 1986 / IEC 255-5 Series C – 2kV for 1 minute.

## Information required with order

- Type of relay (MVAJH13, MVAJH23 high or low burden, MVAJS13 or MVAJS23, MVAJHM13)
- Coil voltage rating
- Number of 'make' and 'break' contacts
- Whether operation indicator required (for MVAJS13 relay only)

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## Contacts

<b>MVAJH13/* MVAJHM13</b>	4 pairs of hand reset output contacts in following combinations 4 N/O, 3 N/O + 1 N/C, 2 N/O + 2 N/C, 1 N/O + 3 N/C
<b>MVAJH23</b>	8 Pairs of hand reset output contacts in following combinations 8 N/O, 6 N/O + 2 N/C, 4 N/O + 4 N/C, 2 N/O + 6 N/C
<b>MVAJS13</b>	Four pair of self reset output contacts in any combination of 'make' and 'break' with a maximum of two 'break' contacts
<b>MVAJS23</b>	4 pairs of self reset output contacts in any combination of 'make' and 'break' with maximum of 2 'break' contacts elements (total 8 pairs of contacts)

- An additional hand reset contact is provided as a coil out of contact is provided with blowout magnet to break highly inductive DC load of the coil.

## Dimensions and Weights

Relay	Case size	Max. No. of terns	Max. overall dimension in mm			Appx Gross Wt. Kgs
			H	W	D	
MVAJH / MVJS13	¼ N	10	118	105	115	1.5
MVJH / MVAJS23	½ N	20	124	153	130	2.5
MVAJHM13	½ N	20	124	153	130	2.5

The relays comply with IS 3231: 1986 and suitable for use in normal tropical environments.

Due to continuous improvement, some information in this catalogue might have become absolute.



 **MEGAWIN**

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