

Megawin Switchgear

MVAG11 Instantaneous Voltage Relay



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Application

Instantaneous protection against abnormal voltage conditions such as over voltage under voltage or no voltage in AC and DC circuits and for definite time operation when used in conjunction with a timer.

Description

A standard attracted armature relay with a fixed setting. The simplicity of construction provides ease of maintenance and adjustment.

Certain applications require high drop-off / pick-up ratio can be supplied by using a DC coil with and internally mounted bridge rectifier and auxiliary MVAA relay. A surge suppression module is incorporated in such relays for protecting the diodes against higher voltage transients.

Type MVAG11 is a single pole relay and type MVAG31 is a triple pole relay type MVAG21 is type MVAG11 relay with and auxiliary unit type MVAA11.

Standard voltage settings are 30V, 110V or 220V DC and 30V, 110V or 230V AC, 50 Hz.

Features

- ¼" Construction
- Dust free enclosure



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Resetting Voltages

Type MVAG11 standard AC or DC over voltage relays will reset at any value below 80% of the voltage setting DC or rectified AC voltage relays type MVAG21 can be supplied having a fixed resetting value between 20% and 90% of the voltage setting as desired.

Type MVAG21 standard AC under voltage relays type MVAG21 can be given a fixed resetting value between 110% of the voltage setting and of the nominal voltage as desired. Type MVAG11 standard AC or DC no voltage relays will reset at any value below 90% of the normal voltage.

Thermal rating

AC relays will withstand twice the pick-up voltage continuously.

Accuracy

The over voltage and under voltage relays conform to error class index E.5.0 as per B.S.142:1966 and 5.0 as per I.S.3231:1965.

Contacts

Standard over voltage and under voltage relays type MVAG11 AC or DC are fitted with two pairs, self reset, 'make' contacts or one pair 'make' and one pair 'break' self reset contacts. Type MVAG21 DC or rectified AC over voltage and under voltage relays can be fitted with up to five pairs of self reset contacts on the auxiliary unit type MVAA11, which is always energized by a normally open, light duty contact of the MVAG11 unit. A separate AC or DC supply is required for the auxiliary unit.

Type MVAG11 AC or DC no voltage relays are fitted with two pairs of self reset contacts in any combination of 'make' and 'break'.

Note : The normal position, regarding contacts, is the de-energized position

Operation Indicator

The relays can be fitted, if required, with an operation indicator which is hand reset by means of a push-rod protruding through the relay case.

On under voltage and No voltage relays, a reverse operation indicator can be fitted i.e. the indicator operates on reduced voltage or complete loss of voltage.

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Insulation

The relays withstands 2.5KV AC RMS 50Hz for one second between all circuits and the case and between all circuits not indented to be connected together it will also withstand 1.25KV AC RMS 50Hz for one second between mating contacts in open position.

Case and Finish

Single pole relays type MVAG11 are mounted in size ¼ N vertical, size ½ N horizontal or 1D vertical case. Type MVAG21 relays are mounted in size ½ N horizontal or size 1D vertical case. Triple pole relays type MVAG31 are mounted in size 1D vertical cases only.

Operating Timings

Over voltage relay : Approximately 0.060 second at 110% of the voltage setting.

Under voltage relay : Approximately 0.020 second at zero voltage

Burden

(MVAG Coil)

2.0VA AC at pickup voltage

0.5 watt DC at pickup voltage

The burden of under voltage and no voltage relays at rated nominal voltage is directly proportional to square of the ratio between nominal and pickup voltage.

Relay	Case size	Maximum No. of terminals		Maximum overall dimension		
		Single ended	Double ended	Height Mm	Weight Mm	Depth Mm
MVAG11	¼ N Vert.	10	10	118	105	115
MVAG21	¼ N Vert.	12	12	124	153	130
MVAG31	1D Vert.	10	20	233	170	203

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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