



CAG 12

Instantaneous overcurrent and earthfault relay

CAG 12 is a single pole relay used for instantaneous phase or earth fault protection and for definite time protection when used with a timer. It is fitted with two pairs of 'make' self reset contacts.



Description

CAG 12 is a standard attracted armature relay with adjustable settings. Type CAG 12 is single pole relay.

Technical data

Current ratings

1A or 5A, 50 Hz.

Settings

Over current:
50 - 200% in 25% steps.

Earth fault:
20 - 80% in 10% steps.
10 - 40% in 5% steps.

Resetting current

The relay will reset at not less than 25% of the current setting.

Operating time

Approximately 0.010 s. at 5 times current setting.

Burden

0.7VA at current setting.

Thermal rating

At any setting, the relay will withstand twice the current setting continuously and 20 times the current setting for 3 seconds.

Accuracy

The relay conforms to error class index E 5.0 as per BS 142 and 5.0 as per IS 3231.

Operation indicator

The relay is fitted with an operation indicator which is hand reset, resetting is done by means of a push-rod protruding through the relay case.

Customer Benefits

- Simple and robust construction
- High sensitivity
- Operational even when generator is de-energised

Contacts

CAG 12 relay is fitted with two pairs of normally open self reset contacts.

Insulation

The relay meets the requirements of IS 3231/IEC-255-5 Series C-2 KV for 1 minute.

Case

The relay is available in 1/2N or 1D case, suitable for flush or protection mounting. It is finished in bright black (non-drawout) or in egg shell black (draw-out) and is tropicalised. Suitable trip isolating switches and CT shorting provision are on cradle assembly/case.

CAG 12C
drawn out from the case



Information required with order

1. Current transformer secondary rating.
2. Current setting range.
3. Case size.
4. Type of mounting - flush or projection.

Contact ratings

	MAKE AND CARRY CONTINUOUSLY	MAKE AND CARRY FOR 0.5 SECOND	BREAK
AC	1250VA with maxima of 5A and 660V	7500VA with maxima of 30A and 660V	1250VA with maxima of 5A and 660V
DC	1250W with maxima of 5A and 660V	7500W with maxima of 30A and 660V	100W(resistive) 50W (inductive) with maxima of 5A and 660V

Dimensions and weights

RELAY	CASE SIZE	MAXIMUM OVERALL DIMENSIONS			APPROXIMATE GROSS WEIGHT KG
		HEIGHT MM	WIDTH MM	DEPTH* MM	
CAG 12	1/2N Vert.	153	124	130	2.5
CAG 12C	1D Vert.	233	170	203	5.5
<p>* Add 76 mm for maximum length of terminal studs, alternatively,29 mm for terminal screws.</p> <p>The approximate gross weights given above are inclusive of cartons, mounting appendages and terminal details.</p> <p>The relays comply fully with the requirements of IS 3231 and are suitable for use in normal tropical environments.</p>					

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