

GEC Measurements

Types CDV22 and CDV62

The type CDV relay is a voltage controlled inverse time overcurrent relay incorporating an instantaneous under-voltage unit, for fault and overload protection of generators. Types CDV22 and CDV62 are single and triple pole versions respectively.

The relay has two operating characteristics determined by the operation of the instantaneous under-voltage unit, monitoring the busbar voltage. On overloads, when the busbar voltage is usually near normal, the relay operates on a long IDMT characteristic to match the thermal characteristic of the generator. Under fault conditions, when the busbar voltage falls, the relay operates on a standard IDMT characteristic and can be time graded with other IDMT relays in the system. This setting is reduced to allow operation on the low value of sustained fault current encountered especially on machines operating without automatic voltage regulation.

CONSTRUCTION AND OPERATION

Basically the relay is an induction disc unit type CDG11 (see R-5000) with wound shading coils shunted by a resistor giving the long time characteristic.

When the busbar voltage falls under fault conditions, a contact on the under-voltage unit short circuits the shading coils, increasing the torque on the disc 2% times, adjusting the setting current by a factor of 0.4.

There are two standard types of CDV relay.

Type A relays change characteristic at 60% normal voltage and are used where the alternator neutral is solidly earthed. The instantaneous voltage control unit is connected between phase and neutral and the relay operates on both phase and earth faults.

Type B relays change characteristic at 30% normal voltage and are used where the alternator neutral is earthed via a reactor. The instantaneous voltage control unit is connected between phases and the relay operates on overload and phase faults only.

CURRENT SETTINGS

Equally Spaced Tap Ranges

50-60%, 20-60% or 50-200% of 0.5, 1.0 or 5.0 amps, 50 or 60 Hz, adjustable in seven equal steps.

Graded Tap Ranges

50-60%, 20-60% or 50-200% of 0.5, 1.0 or 5.0 amps and 50-120% or 80-300% of 5 amps, 50 or 60 Hz, adjustable in seven unequal steps as follows: 25%, 30%, 37.5%, 50%, 60%, 75% and 100% of top tap value.

Starting current: 105% - 110% of current setting.

Closing current: 120% - 130% of current setting.

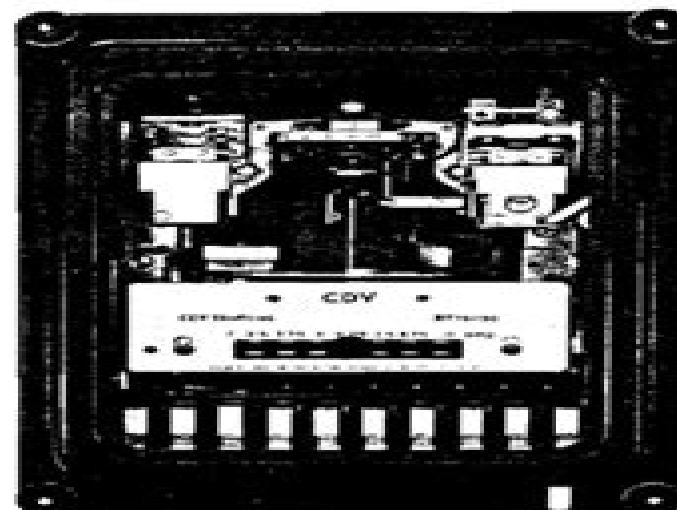
Resetting current: 90% of current setting.

BURDEN

Current coil at current settings: 11 - 15 VA at 50 Hz
13 - 16 VA at 60 Hz

Voltage coil, at current voltage: 6 VA.

Auxiliary unit: 3 watts.



Type CDV22 relay

VOLTAGE SETTINGS

	Nominal rating (volts)	Withstand capacity (volts)	Change characteristic (volts)	Reset (volts)
Type A	50-5	75	40	50
	250	300	190	250
Type B	110	132	20	55
	440	528	180	220

ACCURACY

The relays are calibrated at 50 or 60 Hz and 20°C and fall into error class index 0.7.5 as given in I.S. 142:1986.

THERMAL RATING

Tap		Continuous rating		Maximum current for full operating time on overload at time multiplier setting 1-5	
1 amp relay	5 amp relay	1 amp relay	5 amp relay	1 amp relay	5 amp relay
amps	amps	amps	amps	amps	amps
0.5	2.5	0.5	4.5	14	70
0.75	3.75	1.11	5.0	12	60
1.0	5.0	1.25	6.4	12	60
1.25	6.25	1.56	8.0	11	55
1.5	7.5	1.56	7.0	10	50
1.75	8.75	1.66	6.4	9.4	47
2.0	10.0	1.70	5.9	8.6	43

The relays will withstand 10 times rated current (I.C.T.) secondarily for three seconds.

Cdv62 Manual

John Harold Haynes, P. G. Strasman



Cdv62 Manual:

Volvo 1944-1968 Workshop Manual Pv444, Pv544 (P110), P1800, Pv445, P122 (P120 & Amazon), P210, P130, P220, 144, 142 & 145 Floyd Clymer, 2008-06 Covers the Volkswagen 1200 1968 77 1300 and 1300A 1968 1975 1500 1968 1970 1302 1285cc 1970 1972 1302S and LS 1584cc 1970 1972 1303 1285cc 1972 1975 Karmann Ghia 1968 1974

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