

# Generator protection relay

## GENERATOR PROTECTION

- For generators up to 1000 Vac.
- With thermal memory.
- Visual indication of tripping cause.
- Fast tripping curves.

This relay is specially applicable for protecting low voltage generators up to 1000 Vac, and currents up to 2000 A or higher. Precise motor heating and cooling memory, reproduces its thermal image.

It offers a suitable protection offering the choice between 15 tripping curves in order to avoid the generator working over its damage curve.

## EXTERNAL DISPLAY MODULE

By means of this plug-in optional accessory the relay status can be seen and reset from the exterior of the electrical panel board.

Easy to install. Size of Ø22 mm push button.

## OTHER RELAYS FOR GENERATORS:

- **H:** Frequency relay (See page 38).
- **U3P:** Three-phase voltage relay (See page 37).
- **U3N:** Three-phase voltage relay (See page 37).

GEN



## PROTECTION FUNCTIONS

- I> Overload
- Phase imbalance or phase loss

ODGEN



Models	Code	Relay type
ODGEN	<b>12545</b>	GEN

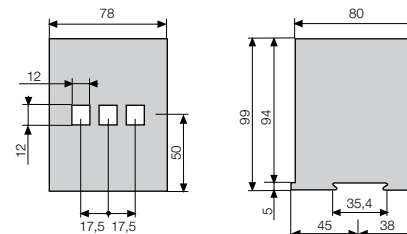
MODELS	GEN 10
Adjustment range $I_B$ (A)	4 - 10,3
Auxiliary voltage supply (+15% -10%)	24 Vdc
Code	<b>11350</b>
For $I_N$ of the generator above 10,3 A	Use 3 current transformers.../5
External display module (optional)	ODGEN

CHARACTERISTICS	
Thermal memory / Overload trip	Yes / From $1,1 \times I_B$
Maximum generator nominal voltage	1000 Vac
Trip time $t_6 \times I_B$	15 adjustable curves from 0,2 to 3 s.
Phase imbalance protection	Over 20%. Tripping time < 3s
Reset mode	Manual and remote
Signalling LED's	3 LED's: ON + one for each protection
Output contacts	1 relay with 1 NO + 1 NC
Switching power	$I_{th}$ : 5A; AC15 - 250V - 2A; DC13 - 30V - 2A
Terminals: Max.section / screw torque	2,5 mm <sup>2</sup> , No. 22 - 12AWG / 20Ncm, 1,8 LB - IN
Power consumption	1,5 W
Protection degree / weight / mounting	IP20 / 0,5 kg / DIN rail
Storage temperature	-30°C +70 °C
Operation temperature / max. altitude	-15°C +60°C / 1000m; -15°C +50°C / 3000m
Standards	IEC 255, IEC 801, EN 50081-2

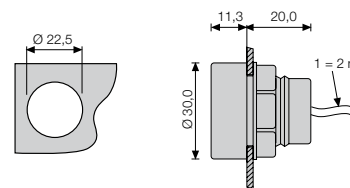


Settings and curves, see pages 24 to 29.

## DIMENSIONS GEN RELAY (mm)



## DIMENSIONS ODGEN MODULE (mm)



## WIRING DIAGRAM (mm)

