

Generator Protection Relay

GENERATOR PROTECTION

- For generators up to 1000 Vac.
- With thermal memory.
- Visual indication of trip cause.
- Fast trip 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 trip curves thus avoiding 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:

- **U3N:** Three-phase voltage relay (See page 119).

GEN



PROTECTION FUNCTIONS

- I> Overload
- Phase imbalance or phase loss

ODGEN



Models	Code	Relay type
ODGEN	12545	GEN

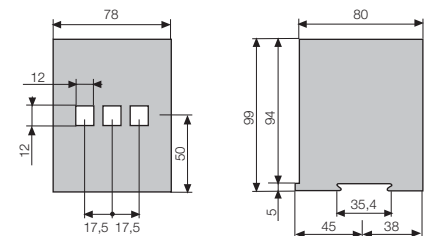
MODELS	GEN 10
Adjustment range I_B (A)	4 - 10,3
Auxiliary voltage supply (+15% -10%)	24 Vdc
Code	11350
For I_N of the generator above 10,3 A	Use 3 current transformers.../5
External display module (optional)	ODGEN

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
Short circuit withstand rating	5000 A at 0,5 s (SCR 5000@0,5 s)
Terminals: Max.section / screw torque	2,5 mm ² , 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
Operating temperature / max. altitude	-15°C +60°C / 1000m; -15°C +50°C / 3000m
Standards	IEC 255, IEC 801, EN 50081-2

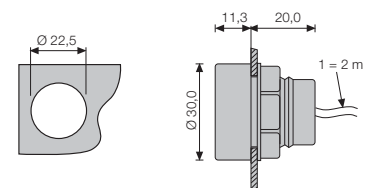


Settings and curves, see pages 105 to 111.

DIMENSIONS GEN RELAY (mm)



DIMENSIONS ODGEN MODULE (mm)



WIRING DIAGRAM

