

ENGLISH

① Connections

Connect the power supply to the proper terminals:

| Power supply | Terminals |
|--------------|-----------|
| 230 VAC      | A1, A2    |
| 115 VAC      | A3, A2    |

Connect the current limit relay with the 3-wire CT as follows: Y1 and Y2 terminals with black and white wire, respectively, and Z1 terminal with red wire as shown in the figure.

NOTE: to use the current limit relay with a 2-wire CT, connect the black and white wires to terminals Y1 and Y2 respectively, add a third wire to be connected to terminal Z1 and short-circuit with the black wire.

For DIN-rail versions automatic screwdriver can be used with max. tightening torque 0.8Nm

**Keep power OFF while connecting!**



**Do not open the DIP-switches cover if the Power Supply is ON**

② Mechanical mounting

Hang the device to the DIN-Rail being sure that the spring closes. Use a screwdriver to remove the product as shown in figure.

③ Startup and operation

Check the output range of the current transformer (max 333 mV). Turn the power ON. The green LED is ON.

When the input exceeds the setpoint 1 up to 10A (setpoint 1 < I < setpoint 2), the "AL" LED blinks at 2Hz during the delay ON alarm 1 (30s). At the end of the delay ON alarm 1, the "AL" LED turns steady ON.

When the input exceeds the setpoint 1 more than 10A (I > setpoint 2), the "AL" LED blinks at 2Hz during the delay ON alarm 2 (5s). At the end of the delay ON alarm 2, the "AL" LED turns steady ON. When the input falls below the recovery point, the yellow LED blinks at 5Hz during the alarm OFF delay (30s). If the input is still below the recovery point at the end of the alarm OFF delay, the yellow LED turns steady ON.

When the red wire of CT is connected to the current limit relay, the CT disconnection alarm is OFF. When the red wire of CT isn't connected to the current limit relay, the CT disconnection alarm is ON and the relay is switched off. There is no delay for alarm ON and alarm OFF for CT disconnection. If during the delay on recovery the CT disconnection alarm is ON, the alarm is immediately triggered and the delay on recovery is reset.

④ Note

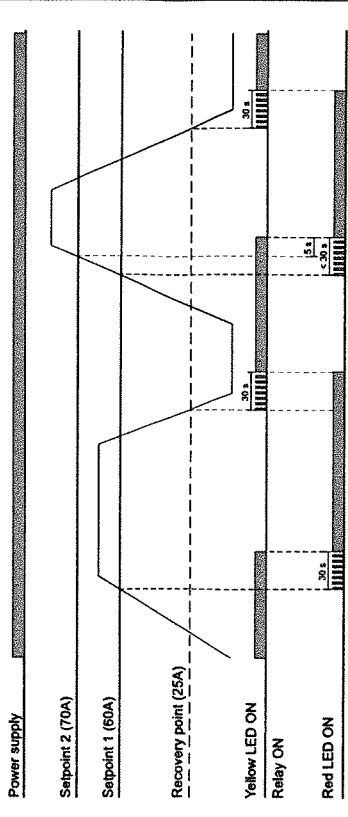
The packing material should be kept for redelivery in case of replacement or repair.

⑤ Terminals

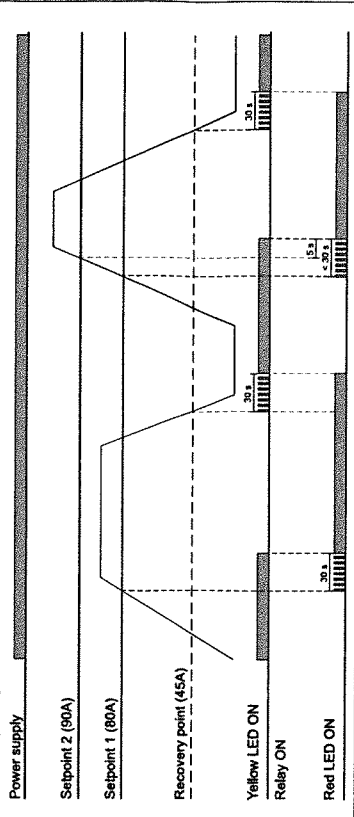
|             |                            |
|-------------|----------------------------|
| A1, A2, A3: | Power supply               |
| Y1, Y2:     | Voltage input              |
| 15, 16, 18: | Relay output               |
| Z1:         | CT disconnection detection |

Each terminal can accept up to 1 x 2.5 mm<sup>2</sup> wires.

Operating diagram: DULM80



Operating diagram: DULM60



General warnings:

- Read carefully the present instruction manual. If the device is used in a manner not specified by the manufacturer the protection function may be impaired.
- All operations concerning installation, or unmounting, of device or modules shall be carried out by qualified personnel and after having disconnected all power sources.
- A readily accessible overcurrent protection ( fuse or circuit breaker) shall be incorporated in the building installation wiring.



Responsibility for disposal :

The product must be disposed of at the relative recycling centres specified by the government or local public authorities. Correct disposal and recycling will contribute to the prevention of potentially harmful consequences to the environment and persons.