

## Description

### General

The **3RP1** timing relays are used in control, starting, and protective circuits for all switching operations involving time-delay. The relay contacts are rated for switching contactor coils. The internal electronics are resistant to interference and surges, even when located next to unsuppressed contactor coils.

The **3RP1** timing relays are available with either screw or Cage Clamp terminals. They can be mounted on standard 35 mm DIN rail or panel mounted. The **3RP15** timing relays can be panel mounted with the use of a special panel mounting accessory.

### Switching and function diagrams

The multi-function **3RP10** timing relays have function diagrams lasered onto the coding plug. The multi-function **3RP15** timing relays have a set of labels available as accessories. The required function is first selected on the rotary dial on the timing relay. The label with the function diagram is then snapped onto the front of the relay covering the selector dial. Only the function label that matches the dial setting can be snapped into the timing relay, which

ensures proper labeling. The circuit diagram and function name are on the labels. These features make it much easier to know which function is currently programmed in the timing relay.

### Settings

All of the function operators and visual indicators are on the front of the timing relays. The **3RP15** has 15 selectable timing ranges. 1, 3, 10, 30 and 100 can be set to units of either seconds, minutes, or hours. For test purposes there is also an infinity position where there is no timing of the output contacts and the unit operates like a control relay. Two LED's signal whether the control voltage is present and that the relay has switched.

### Configuring

- Changing the timing range and the functions will only be effective when they are carried out in a zero voltage state.
- Trigger input B1 or B3 must only be started when the supply voltage is applied.
- The same voltage must be applied to A1 and B1, or A3 and B3. With the two voltage design, only one voltage range must be connected.
- The **3RP1000** multi-function timing relay is programmed for pick-up delay without using the coding plugs.
- The triggering of the load parallel to the start input is not permissible when using AC wiring diagrams (page 596).

### Specifications

IEC 721-3-3 "Ambient conditions"

IEC 1812-1, DIN VDE 0435 Part 2021 "Solid-state relays, time relays"

IEC 1000 "Electromagnetic compatibility"

IEC 947-5-1, "Low-voltage control circuit devices"



3RP10



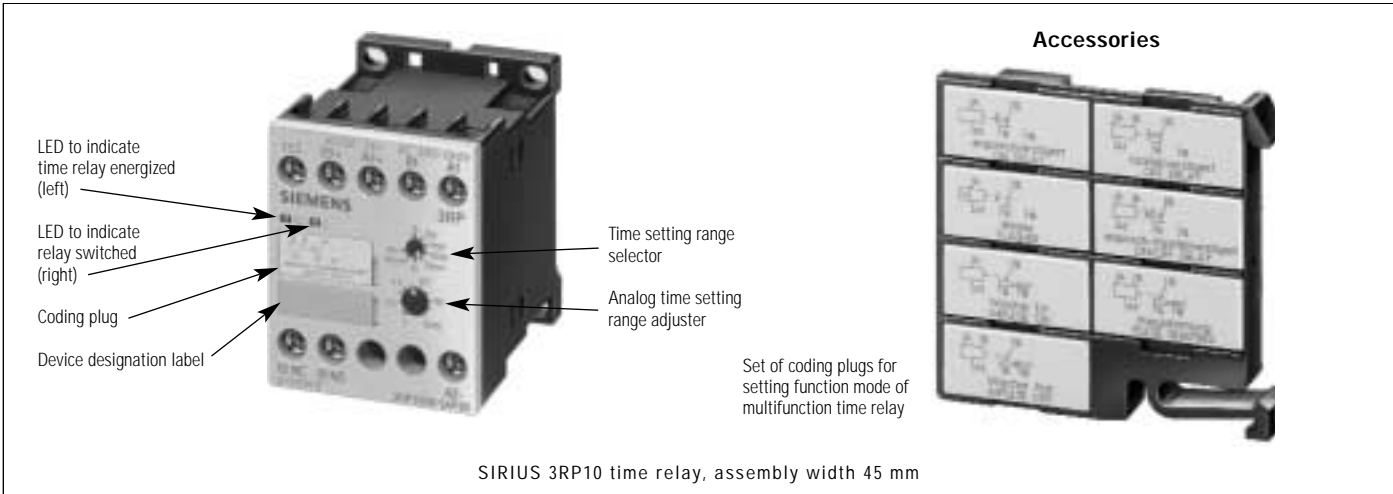
3RP15



# Solid-State Time Relays

General

## 3RP10 and 3RP15



**Accessories**

LED to indicate time relay energized (left)

LED to indicate relay switched (right)

Coding plug

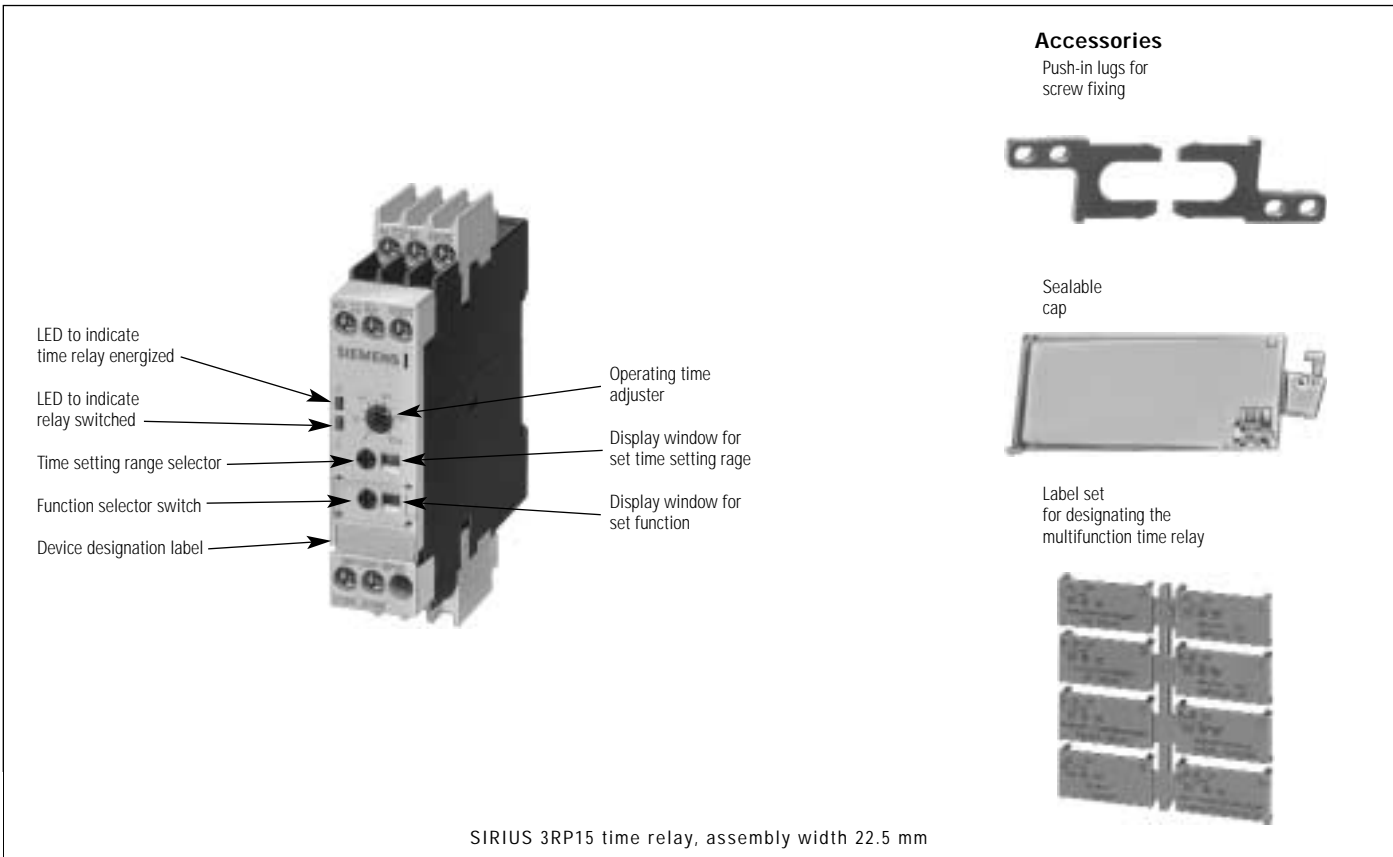
Device designation label

Time setting range selector

Analog time setting range adjuster

Set of coding plugs for setting function mode of multifunction time relay

SIRIUS 3RP10 time relay, assembly width 45 mm



**Accessories**

Push-in lugs for screw fixing

Sealable cap

Label set for designating the multifunction time relay

LED to indicate time relay energized

LED to indicate relay switched

Time setting range selector

Function selector switch

Device designation label

Operating time adjuster

Display window for set time setting range

Display window for set function

SIRIUS 3RP15 time relay, assembly width 22.5 mm

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Logic Control

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