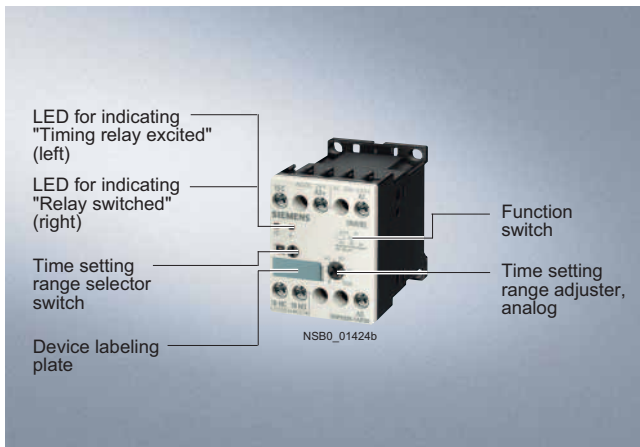


3RP, 3RT19 Timing Relays

3RP20 timing relays, 45 mm

Overview



Application

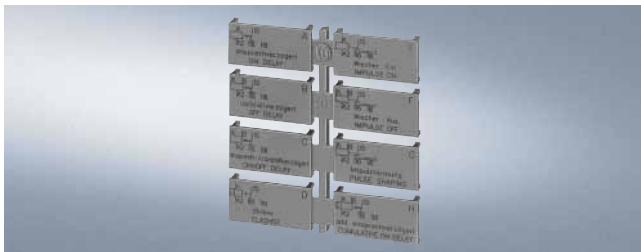
Timing relays are used in control, starting, and protective circuits for all switching operations involving time delays. They guarantee a high level of functionality and a high repeat accuracy of timer settings.

Standards

The timing relays comply with:

- EN 60721-3-3 "Environmental conditions"
- EN 61812-1/DIN VDE 0435 Part 2021 "Electrical relays, timing relays"
- EN 61000-6-2 and EN 61000-6-4 "Electromagnetic compatibility"
- EN 60947-5-1 (VDE 0660 Part 200) "Low-voltage controlgear"
- EN 61140 "Safe electrical isolation"

Accessories



Label set for marking the multifunction relay

3RP, 3RT19 Timing Relays


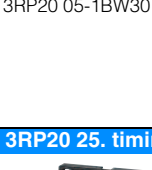

3RP20 timing relays, 45 mm

Selection and ordering data

Multifunction

The functions can be adjusted by means of rotary switches¹⁾. Insert labels can be used to adjust different functions of the 3RP20 05 timing relay clearly and unmistakably.

The corresponding labels can be ordered as an accessory. The same potential must be applied to terminals A. and B.

| Version | Time setting range t | Rated control supply voltage U_s | | DT | Screw terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | | |
|--|--|--|--------------------------|--------------------------|-------------------------|-------------------|-----|--------|-----------------------|-------|--|
| | | AC 50/60 Hz | DC | | Order No. | Price per PU | | | kg | | |
| 3RP20 05 timing relays, multifunction, 15 time setting ranges | | | | | | | | | | | |
|  | With LED and 1 CO contact, 8 functions ¹⁾²⁾ | 0.05 ... 1 s | 24/100 ... 127 | 24 | ▶ 3RP20 05-1AQ30 | | 1 | 1 unit | 101 | 0.118 | |
| | | 0.15 ... 3 s | 24/200 ... 240 | 24 | ▶ 3RP20 05-1AP30 | | 1 | 1 unit | 101 | 0.119 | |
|  | With LED and 2 CO contacts, 16 functions ¹⁾ | 0.5 ... 10 s | | | | | | | | | |
| | | 1.5 ... 30 s | 24 ... 240 ⁴⁾ | 24 ... 240 ⁵⁾ | ▶ 3RP20 05-1BW30 | | 1 | 1 unit | 101 | 0.128 | |
| | | 0.05 ... 1 min | | | | | | | | | |
| | | 5 ... 100 s | | | | | | | | | |
| | | 0.15 ... 3 min | | | | | | | | | |
| | | 0.5 ... 10 min | | | | | | | | | |
| | | 1.5 ... 30 min | | | | | | | | | |
| | | 0.05 ... 1 h | | | | | | | | | |
| | | 5 ... 100 min | | | | | | | | | |
| | | 0.15 ... 3 h | | | | | | | | | |
| | | 0.5 ... 10 h | | | | | | | | | |
| | | 1.5 ... 30 h | | | | | | | | | |
| | | 5 ... 100 h | | | | | | | | | |
| | | ∞ ³⁾ | | | | | | | | | |
| | | 3RP20 25. timing relays, ON-delay, 15 time setting ranges | | | | | | | | | |
|  | With LED and 1 CO contact ²⁾ | 0.05 ... 1 s | 24/100 ... 127 | 24 | ▶ 3RP20 25-1AQ30 | | 1 | 1 unit | 101 | 0.106 | |
| | | 0.15 ... 3 s | 24/200 ... 240 | 24 | ▶ 3RP20 25-1AP30 | | 1 | 1 unit | 101 | 0.106 | |
| | | 0.5 ... 10 s | | | | | | | | | |
| | | 1.5 ... 30 s | | | | | | | | | |
| | | 0.05 ... 1 min | | | | | | | | | |
| | | 5 ... 100 s | | | | | | | | | |
| | | 0.15 ... 3 min | | | | | | | | | |
| | | 0.5 ... 10 min | | | | | | | | | |
| | | 1.5 ... 30 min | | | | | | | | | |
| | | 0.05 ... 1 h | | | | | | | | | |
| | | 5 ... 100 min | | | | | | | | | |
| | | 0.15 ... 3 h | | | | | | | | | |
| | | 0.5 ... 10 h | | | | | | | | | |
| | | 1.5 ... 30 h | | | | | | | | | |
| | | 5 ... 100 h | | | | | | | | | |
| ∞ ³⁾ | | | | | | | | | | | |

¹⁾ For functions see 3RP19 01-0. label set.

²⁾ Units with safe electrical isolation.

³⁾ With switch position ∞ , no timing. For test purposes (ON/OFF function) on site. Relay is constantly on when activated, or relay remains constantly off when activated. Depending on which function is set.

⁴⁾ Operating range $0.8 \dots 1.1 \times U_s$.

⁵⁾ Operating range $0.7 \dots 1.1 \times U_s$.



3RP, 3RT19 Timing Relays

3RP20 timing relays, 45 mm

Multifunction

The functions can be adjusted by means of rotary switches¹⁾. Insert labels can be used to adjust different functions of the 3RP20 05 timing relay clearly and unmistakably.

The corresponding labels can be ordered as an accessory. The same potential must be applied to terminals A. and B.

| Version | Time setting range t | Rated control supply voltage U_s | | DT | Spring-loaded terminals | | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | | |
|--|--|------------------------------------|--------------------|--------------------------|--------------------------|----------------|-------------------|----------------|-----|-----------------------|-----|-------|
| | | AC 50/60 Hz | DC | | Order No. | Price per PU | | | | | | |
| | | V | V | | | | | | | kg | | |
| 3RP20 05 timing relays, multifunction, 15 time setting ranges | | | | | | | | | | | | |
|  3RP20 05-2BW30 | With LED and 1 CO contact, 8 functions ¹⁾²⁾ | 0.05 ... 1 s | 24/ 100 ... 127 24 | D | ▶ | 3RP20 05-2AQ30 | 1 | 1 unit | 101 | 0.120 | | |
| | | 0.15 ... 3 s | 24/ 200 ... 240 24 | | | 3RP20 05-2AP30 | 1 | 1 unit | 101 | 0.121 | | |
| | | 0.5 ... 10 s | | | | | | | | | | |
| | With LED and 2 CO contacts, 16 functions ¹⁾ | | 1.5 ... 30 s | 24 ... 240 ⁴⁾ | 24 ... 240 ⁵⁾ | D | ▶ | 3RP20 05-2BW30 | 1 | 1 unit | 101 | 0.131 |
| | | | 0.05 ... 1 min | | | | | | | | | |
| | | | 5 ... 100 s | | | | | | | | | |
| | | | 0.15 ... 3 min | | | | | | | | | |
| | | | 0.5 ... 10 min | | | | | | | | | |
| | | | 1.5 ... 30 min | | | | | | | | | |
| | | | 0.05 ... 1 h | | | | | | | | | |
| | | | 5 ... 100 min | | | | | | | | | |
| | | | 0.15 ... 3 h | | | | | | | | | |
| | | | 0.5 ... 10 h | | | | | | | | | |
| | | | 1.5 ... 30 h | | | | | | | | | |
| | | | 5 ... 100 h | | | | | | | | | |
| | ∞ ³⁾ | | | | | | | | | | | |
| 3RP20 25 timing relays, ON-delay, 15 time setting ranges | | | | | | | | | | | | |
|  3RP20 25-2AP30 | With LED and 1 CO contact ²⁾ | 0.05 ... 1 s | 24/ 100 ... 127 24 | ▶ | ▶ | 3RP20 25-2AQ30 | 1 | 1 unit | 101 | 0.110 | | |
| | | 0.15 ... 3 s | 24/ 200 ... 240 24 | | | 3RP20 25-2AP30 | 1 | 1 unit | 101 | 0.108 | | |
| | | 0.5 ... 10 s | | | | | | | | | | |
| | | 1.5 ... 30 s | | | | | | | | | | |
| | | 0.05 ... 1 min | | | | | | | | | | |
| | | 5 ... 100 s | | | | | | | | | | |
| | | 0.15 ... 3 min | | | | | | | | | | |
| | | 0.5 ... 10 min | | | | | | | | | | |
| | | 1.5 ... 30 min | | | | | | | | | | |
| | | 0.05 ... 1 h | | | | | | | | | | |
| | | 5 ... 100 min | | | | | | | | | | |
| | | 0.15 ... 3 h | | | | | | | | | | |
| | | 0.5 ... 10 h | | | | | | | | | | |
| | | 1.5 ... 30 h | | | | | | | | | | |
| | | 5 ... 100 h | | | | | | | | | | |
| | ∞ ³⁾ | | | | | | | | | | | |

1) For functions see 3RP19 01-0. label set.

2) Units with safe electrical isolation.

3) With switch position ∞ , no timing. For test purposes (ON/OFF function) on site. Relay is constantly on when activated, or relay remains constantly off when activated. Depending on which function is set.

4) Operating range $0.8 \dots 1.1 \times U_s$.

5) Operating range $0.7 \dots 1.1 \times U_s$.

3RP, 3RT19 Timing Relays

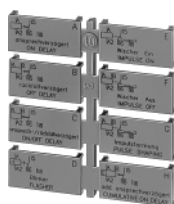
3RP20 timing relays, 45 mm

Accessories

| Version | Function | Identification letter | Use | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|---------|----------|-----------------------|-----|----|-----------|--------------|-------------------|-----|----|-----------------------------|
|---------|----------|-----------------------|-----|----|-----------|--------------|-------------------|-----|----|-----------------------------|

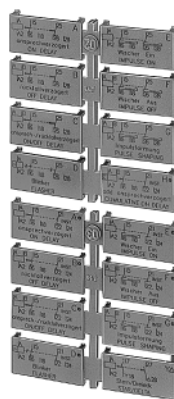
Label sets

Accessory for 3RP20 (not included in the scope of supply). The label set offers the possibility of labeling timing relays with the set function in English and German.



3RP19 01-0A

| | | | | | | | | | | |
|---------------------------------------|--|--------------------------------------|--|--|--------------------|--|---|---------|-----|-------|
| 1 label set (1 unit) with 8 functions | With ON-delay OFF-delay with auxiliary voltage ON-delay and OFF-delay with auxiliary voltage Flashing, starting with interval Passing make contact Passing break contact with auxiliary voltage Pulse-forming with auxiliary voltage Additive ON-delay with auxiliary voltage | A B C D E F G H | for devices with 1 CO contact and 3RP15 05-.. RW30 | | 3RP19 01-0A | | 1 | 5 units | 101 | 0.003 |
|---------------------------------------|--|--------------------------------------|--|--|--------------------|--|---|---------|-----|-------|



3RP19 01-0B

| | | | | | | | | | | |
|--|--|---|--------------------------------|--|--------------------|--|---|---------|-----|-------|
| 1 label set (1 unit) with 16 functions | With ON-delay OFF-delay with auxiliary voltage ON-delay and OFF-delay with auxiliary voltage Flashing, starting with interval Passing make contact Passing break contact with auxiliary voltage Pulse-forming with auxiliary voltage Additive ON-delay with auxiliary voltage and instantaneous contact ON-delay and instantaneous contact OFF-delay with auxiliary voltage and instantaneous contact ON-delay and OFF-delay with auxiliary voltage and instantaneous contact Flashing, starting with interval, and instantaneous contact Passing make contact and instantaneous contact Passing break contact with auxiliary voltage and instantaneous contact Pulse-forming with auxiliary voltage and instantaneous contact Wye-delta function | A B C D E F G H• A• B• C• D• E• F• G• YΔ | for devices with 2 CO contacts | | 3RP19 01-0B | | 1 | 5 units | 101 | 0.006 |
|--|--|---|--------------------------------|--|--------------------|--|---|---------|-----|-------|

Blank labels

| | | | | | | | | | | |
|--|--|--|--|---|-----------------------|--|-----|-----------|-----|--------|
| Blank labels, 20 mm x 7 mm, pastel turquoise ¹⁾ | | | | C | 3RT19 00-1SB20 | | 100 | 340 units | 101 | 22.000 |
|--|--|--|--|---|-----------------------|--|-----|-----------|-----|--------|

¹⁾ Computer labeling system for individual inscription of unit labeling plates available from: murrplastik Systemtechnik GmbH.