

Compact Timing Relays & Accessories/Screw & Cage Clamp Terminals

| Description | Ordering Information |
|--|---|
| Solid-state timing relays with 1 SPDT contact, eight switchable time ranges, contact state indication by LED, voltage indication by LED. | General Information see page 585. Technical Data see page 595. Dimensions see page 599. |

Compact Timing Relays

| | | Function Time Relay Energized | Play Energized Time Setting Rated supply | | | | |
|---------------|--|--|--|--------------------------|-----------------|--|--------------------------------------|
| Illustration | Version | Contact Closed Contact Open | Selectable by selector switch to | AC 50/60Hz ^① | DC ² | Catalog No | Price \$ |
| Commercia | 3RP1000, multi-fur | nction time relay, 8 time ranges | | | | | |
| 3RP1000-2AP30 | with LED 1 SPDT contact, 7 functions The terminals A1 and B1 must be of equal potential. | The time relay 3RP1000 can be set for different functions by means of coding plugs. The required coding plugs are supplied with the relay. For functions, see coding plugs 7PX9904 | 0.05–1 s 0.5–10 s 0.05–1 min 5–100 s 0.5–10 min 0.05–1 h 5–100 min 0.5–10 h | 24/100–127 24/200–240 | 24 | 3RP1000-1AQ30 3RP1000-2AQ30 ³ 3RP1000-1AP30 3RP1000-2AP30 ³ | 110.00 115.00 110.00 115.00 |
| | 3RP1020, on-delay | , 8 time setting ranges | | | | | |
| 20000 | with LED | on-delay | 0.05–1 s 0.5–10 s 0.05–1 min | 24/100–127 | 24 | 3RP1020-1AQ30 3RP1020-2AQ30 ³ | 60.00 65.00 |
| 3RP1020-1AP30 | 1 SPDT contact | 15/18 15/16 1 t — b | 5–100 s 0.5–10 min 0.05–1 h 5–100 min 0.5–10 h | 24/200–240 | 24 | 3RP1020-1AP30 3RP1020-2AP30 ³ | 60.00 65.00 |

Coding plugs

| Illustration | Version | Function | Application | Catalog No | Price \$ |
|--------------|----------------------------------|--|---------------------------|------------|----------|
| | Complete set with 7 functions | on-delay off-delay with auxiliary voltage on- and off-delay with auxiliary voltage flashing rising edge pulse falling edge pulse with auxiliary voltage pulse forming with auxiliary voltage | for relays with 1 SPDT | 7PX9904 | 34.50 |

Function table for coding plugs 7PX9904 (1 SPDT contact)

| | ig plugs /1 X/704 (1 Si Di contact) | | |
|---|--|---|--|
| Function time relay energized contact closed contact open | | flashing, starting with interval (pulse/interval 1:1) | 15/18 15/16 |
| on-delay | A1/A2 | rising edge pulse | 15/18 15/16 |
| off-delay with auxiliary voltage | A1/A2 235 ms = B1/A2 255 ms = 15/18 15/18 | falling edge pulse with auxiliary voltage | A1/A2 (/////////////////////////////////// |
| on- and off-delay with auxiliary voltage $(t=t_{\rm ON}=t_{\rm OFF})$ | A1/A2 (/////////////////////////////////// | pulse forming with auxiliary voltage (pulse generation at the output does not depend on duration of energizing) | A1/A2 [[[]]]] P2:35 ms ⁻¹ B1/A2 [[]][][][][][][][][][][][][][][][][][] |



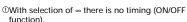


Narrow Profile Timing Relays/Screw Connection

| Description | Ordering Information |
|---|---|
| Solid-state timing relays with, 1 SPDT contact or 2 SPDT, single or switchable time ranges, contact state indication by LED, voltage indication by LED. | General Information see page 585. Technical Data see page 595. Dimensions see page 599. |

Narrow profile timing relays

| | | Function Time Relay Energized | | Rated Contr Supply Volt | | | | | |
|---------------|--|--|--|--|---|--|------------------------------|--|--------------------------|
| ıstration | Version Contact Open | Contact Open | Time Setting Range <i>t</i> Selectable | AC 50/60Hz Volts | DC Volts | Screw Terminals Catalog No | Price \$ | Cage Clamp Terminals Catalog No | Price |
| A STORY | 3RP1505, multi-func | tion timing relay, 15 time setting ra | nges | | | | | | |
| 800 | with LED 1 SPDT contact, 8 functions | The functions are selected by means of a knob. The knob is sealed by a label with a corresponding function diagram. See label set 3RP1901 . | 0.05–1 s 0.5–3 s 0.5–10 s 1.5–30 s 0.5–1 min 5–100 s 0.15–3 min 0.5–10 min | 24/100-127 24/200-240 24-240 [®] | | 3RP1505-1AQ30 3RP1505-1AP30 3RP1505-1AW30 | 95. 95. 95. | 3RP1505-2AQ30 3RP1505-2AP30 3RP1505-2AW30 | 100. 100. 100. |
| 3RP1511-1AP30 | with LED 2 SPDT contacts, 16 functions | Terminals A and B must be of equal potential | 1.5–30 min 0.05–1 h 5–100 min 0.15–3 h 0.5–10 h 1.5–30 h | 24/100-127 24/200-240 24-240 ³ 400-440 | 24 24 24–240 ^② | 3RP1505-1BQ30 3RP1505-1BP30 3RP1505-1BW30 3RP1505-1BT20 | 110. 110. 135. 135. | 3RP1505-2BQ30 3RP1505-2BP30 3RP1505-2BW30 | 115. 115. 140. |
| en ion in o | 2 SPDT contacts positively driven ⁴ , gold plated, 8 functions ⁶ | | 1–100 h ∞ ^① | 24-240 | 24-240 | 3RP1505-1RW30 | 135. | 3RP1505-2RW30 | 140. |
| 000 | 3RP151., on-delay, 1 | time setting range | | | | | | | |
| Beal | with LED | on-delay | 0.5–10 s | 24/100-127 24/200-240 | | 3RP1511-1AQ30 3RP1511-1AP30 | 50. 50. | 3RP1511-2AQ30 3RP1511-2AP30 | 55. 55. |
| Director. | 1 SPDT contact | A1/A2 ////////////////////////////////// | 1.5–30 s | 24/100–127 24/200–240 | 24 24 | 3RP1512-1AQ30 3RP1512-1AP30 | 50. 50. | 3RP1512-2AQ30 3RP1512-2AP30 | 55. 55. |
| | contact | 15/16 t | 5–100 s | 24/100–127 24/200–240 | 24 24 | 3RP1513-1AQ30 3RP1513-1AP30 | 50. 50. | 3RP1513-2AQ30 3RP1513-2AP30 | 55. 55. |
| 5550 | 3RP1525, on-delay, 1 | 5 time setting ranges | | | | | | | |
| 3RP1525-1BP30 | with LED 1 SPDT contact | 0n-delay A1/A2 ////////////////////////////////// | 0.15–1 s 0.15–3 s 0.5–10 s 1.5–30 s 0.05–1 min 5–100 s 0.15–3 min 0.5–10 min | 24/100–127 24/200–240 | | 3RP1525-1AQ30 3RP1525-1AP30 | 65. 65. | 3RP1525-2AQ30 3RP1525-2AP30 | 70. 70. |
| 800 | with LED 2 SPDT contacts | On-delay A1/A2 15/18 15/16 25/28 25/26 | 1.5–30 min 0.05–1 h 5–100 min 0.15–3 h 0.5–10 h 1.5–30 h 1–100 h ∞ ^① | 42–48, 60 24/100–127 24/200–240 | | 3RP1525-1BR30 3RP1525-1BQ30 3RP1525-1BP30 3RP1525-1BW30 | 70. 70. 70. 70. | 3RP1525-2BR30 3RP1525-2BQ30 3RP1525-2BP30 3RP1525-2BW30 | 75. 75. 75. 75. |
| 1000 | 3RP1527, on-delay, t | wo-wire version, 4 time setting ra | nges | • | | | | | |
| 600 | with LED 1 NO semi- conductor output | on-delay A1/A2 A1/A2 | 0.05–1 s 0.2–4 s 1.5–30 s 12–240 s | 24–66 90–240 | 24-66 ^③ 90-240 ^③ | 3RP1527-1EC30 3RP1527-1EM30 | 50. 50. | 3RP1527-2EC30 3RP1527-2EM30 | 55. 55. |





Narrow Profile Timing Relays/Screw Connection

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| Narrow profile timi | ng relays | | | | | | | | |
|---------------------|-------------------------------|---|--|--|--|---|----------------------|---|----------------------|
| | | Function Time Relay Energized | | Rated Contr Supply Volt | | | | | |
| Illustration | Version | Contact Closed Contact Open | Time Setting Range <i>t</i> Selectable | AC 50/60Hz Volts | DC Volts | Screw Terminals Catalog No | Price \$ | Cage Clamp Terminals ce \$ Catalog No. | Price \$ |
| mustration | | lay, with auxiliary voltage, 1 time : | | voits | VOICS | Catalog 140 | T TICC \$ | Catalog No. | 11100 \$ |
| 220 | with LED | off-delay, with auxiliary voltage | 0.5–10 s | 24/100–127 24/200–240 | 24 24 | 3RP1531-1AQ30 3RP1531-1AP30 | 85. 85. | 3RP1531-2AQ30 3RP1531-2AP30 | 90. 90. |
| | 1 SPDT contact | ≥ 35 ms = B1/A2 /////////////////////////////////// | 1.5–30 s | 24/100–127 24/200–240 24/100–127 | 24 24 24 | 3RP1532-1AQ30 3RP1532-1AP30 3RP1533-1AQ30 | 85. 85. 85. | 3RP1532-2AQ30 3RP1532-2AP30 3RP1533-2AQ30 | 90. 90. 90. |
| | common terminal 17 | 15/16 t | 5–100 s | 24/200–240 | 24 | 3RP1533-1AP30 | 85. | 3RP1533-2AP30 | 90. |
| 000 | 3RP1540, off-d | elay, without auxiliary voltage, 7 ti | me setting ranges | i | | | | | |
| 3RP1533-1AP30 | with LED | off-delay, without auxiliary voltage -→ ≥ 200 ms → | 0.05–1 s | | | | | | |
| 200 | 1 SPDT contact | 15/18 15/16 | 0.15–3 s 0.3–6 s | 24 100–127 24–240 | 24 ²⁰ 100–127 ³⁰ 200–240 ³⁰ | 3RP1540-1AB30 3RP1540-1AJ30 3RP1540-1AN30 | 110. 110. 110. | 3RP1540-2AB30 3RP1540-2AJ30 3RP1540-2AN30 | 115. 115. 115. |
| | with LED | off-delay, without auxiliary voltage → ≥200 ms | 0.5–10 s | | 24@ | 0DD4540.4DD00 | 405 | 2DD4540 2DD20 | 400 |
| | 2 SPDT contacts | A1/A2 | 1.5–30 s 3–60 s | 24 100–127 24–240 | 24 ² 100–127 ³ 200–240 ³ | 3RP1540-1BB30 3RP1540-1BJ30 3RP1540-1BN30 | 125. 125. 125. | 3RP1540-2BB30 3RP1540-2BJ30 3RP1540-2BN30 | 130. 130. 130. |
| 3RP1540-1BN30 | | 25/28 25/26 | 5–100 s | | | | | | |
| 3KF 1340-1DN30 | 3RP1555, clock | k-pulse relay, 15 time setting range | es | | | | | | |
| 3RP1555-1AP30 | 1 SPDT contact 3RP1560, wye- | pulse contact, start with interval A1/A2 15/18 15/16 Interval time, pulse time and time ranges separately adjustable) delta function, time relay over trav | 0.05–1 s 0.15–3 s 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 1.5–30 h | 42–48, 60 24/100–127 24/200–240 | 42–48, 60 [©] 24 24 | 3RP1555-1AR30 3RP1555-1AQ30 3RP1555-1AP30 | 120. 120. 120. | 3RP1555-2AR30 3RP1555-2AQ30 3RP1555-2AP30 | 125. 125. 125. |
| | 3 NO contacts | | | | | | | | |
| 445 | common terminal 17 | A1/A2 | wye-delta 1–20 s | 24/100–127 | 24 | 3RP1560-1SQ30 | 85. | 3RP1560-2SQ30 | 90. |
| | | 17/16 -t - -t - -t - | over travel time 30–600 s | 24/200–240 | 24 | 3RP1560-1SP30 | 85. | _ | _ |
| | 3RP157, wye-d | lelta function, instantaneous interv | al 50 ms, 1 time se | etting range | | 1 | | | |
| 3RP1574-1NP30 | 1 NO delayed | wye-delta | 1–20 s | 24/100–127 24/200–240 | 24 24 | 3RP1574-1NQ30 3RP1574-1NP30 | 65. 65. | 3RP1574-2NQ30 3RP1574-2NQ30 | 70. 70. |
| 3KI 1374-1NF3U | and 1 NO instantaneous | 27/28 | 3–60 s | 24/100–127 24/200–240 | 24 24 | 3RP1576-1NQ30 3RP1576-1NP30 | 65. 65. | 3RP1576-2NQ30 3RP1576-2NP30 | 70. 70. |

 $\mbox{@With selection of ∞ there is no timing (ON/OFF function).}$

Labels, Accessories and Timing Diagrams

Label set

| Version | Function | Code Letter | Application | Catalog No | Price \$ | Packing Qty |
|--------------------------------|---|--|--|------------|-----------------------------|----------------|
| | On-delay | A | 1 | | | |
| | Off-delay with auxiliary voltage | В | | | | |
| | On- and off-delay with auxiliary voltage | С | | | | |
| Complete set | Flashing, starting with interval | D | for relays | | | |
| vith 8 functions | Rising edge pulse | E | with 1 SPDT | 3RP1901-0A | 21. | 5 sets |
| | Falling edge pulse with auxiliary voltage | F | contact | | | |
| | Pulse forming with auxiliary voltage | G | | | | |
| | Cumulative on-delay with auxiliary voltage | Н | | | | |
| | On-delay Supplies the supplies | A | | | | |
| | On-delay with auxiliary voltage | В | | | | |
| | On- and off-delay with auxiliary voltage | С | | | | |
| | Flashing, starting with interval | D | | | | |
| | Rising edge pulse | E | | | | |
| | Falling edge pulse with auxiliary voltage | F | | | | |
| | Pulse forming with auxiliary voltage | G | | | | |
| | Cumulative on-delay with auxiliary voltage and instantaneous contact | H• | | | | |
| | On-delay and instantaneous contact | A• | | | | |
| Complete set with 16 functions | Off-delay with auxiliary voltage and instantaneous contact | В• | for relays with 2 SPDT | 3RP1901-0B | 29. | 5 sets |
| | On- and off-delay with auxiliary voltage and instantaneous contact | C• | contacts | | | |
| | Flashing, starting with interval, and instantaneous contact | D• | | | | |
| | Rising edge pulse and instantaneous contact | E• | 7 | | | |
| | Falling edge pulse with auxiliary voltage and instantaneous contact | F• | | | | |
| | Pulse-shaping with auxiliary voltage and instantaneous contact | G• | | | | |
| | Wye-delta function | ΥΔ | | | | |
| Sealing Cap and Push | n-in Lug | • | • | • | • | • |
| Sealing cap | To protect against misadjustment | | for relays with 1 or 2 SPDT contacts | 3RP1902 | 18. | 5 sets |
| Push-in lug | For panel mounting | for relays with 1 or 2 SPDT contacts | 3RP1903 | 14. | 5 sets with 2 items per set | |

Timing diagrams for label set 3RP1901-0A

| Function | time relay energized | contact closed | contact open |
|---|---|---|--|
| 1 SPDT contact | | | |
| A On-delay | 15/18 15/16 | E Rising edge pulse | 15/18 15/16 |
| B Off-delay with auxiliary voltage | A1/A2 | F Falling edge pulse with auxiliary voltage | A1/A2 |
| C On- and off-delay with auxiliary voltage $(t = t_{ON} = t_{OFF})$ | B1/A2 /////////////////////////////////// | G Pulse forming with auxiliary voltage (pulse generation at the output does not depend on duration of energizing) | A1/A2 ////////////////////////////////// |
| D Flashing, starting with interval (pulse/interval 1:1) | 15/18 15/16 | H Cumulative on-delay with auxiliary voltage | A1/A2 (|