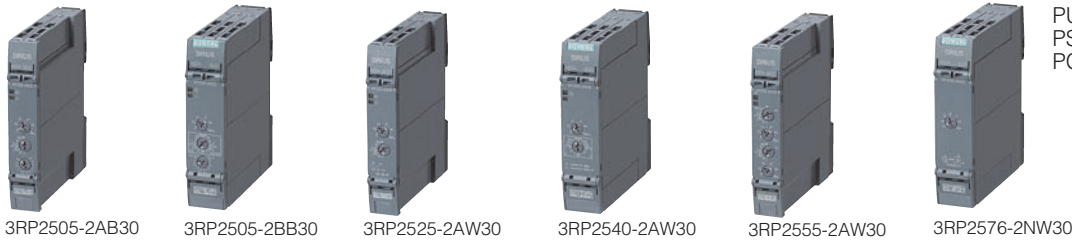


Timing Relays

3RP25 timing relays, 17.5 mm and 22.5 mm

Selection and ordering data



PU (UNIT, SET, M) = 1
PS* = 1 unit
PG = 41H

Number of NO contacts		Number of CO contacts		Semi-conduc-tor output	Adjustable time	Control supply voltage		DT	Screw terminals		DT	Spring-type terminals (push-in)	
Instan-taneous switch-ing	De-layed switch-ing	Instan-taneous switch-ing	De-layed switch-ing			At AC 50/60 Hz	At DC		Article No.	Price per PU		Article No.	Price per PU

3RP2505-.A and 3RP2505-.C timing relays, 13 functions

The functions can be adjusted by means of function selector switches on the device. With a set of foil labels the timing relay can be legibly marked with the functions which can be selected on the timing relay. This is supplied together with the multifunctional timing relay. The same potential must be applied to terminals A. and B. Functions, [see the overview of functions on page 10/41](#)

0	0	0	1	--	0.05 s ... 100 h	24	24	A	3RP2505-1AB30	A	3RP2505-2AB30
						12 ... 240	12 ... 240	A	3RP2505-1AW30	A	3RP2505-2AW30
0	1	0	0	✓	0.05 s ... 100 h	12 ... 240	12 ... 240	A	3RP2505-1CW30	A	3RP2505-2CW30

3RP2505-.R timing relays suitable for railway applications, 13 functions

Start of delivery planned for 11/2015

The functions can be adjusted by means of function selector switches on the device. With a set of foil labels the timing relay can be legibly marked with the functions which can be selected on the timing relay. This is supplied together with the multifunctional timing relay. The same potential must be applied to terminals A. and B. Functions, [see the overview of functions on page 10/41](#)

0	0	--	2 ¹⁾	--	0.05 s ... 100 h	24 ... 240	24 ... 240	A	3RP2505-1RW30	A	3RP2505-2RW30
---	---	----	-----------------	----	------------------	------------	------------	---	----------------------	---	----------------------

3RP2505-.B timing relay, 27 functions

The functions can be adjusted by means of function selector switches on the device. With a set of foil labels the timing relay can be legibly marked with the functions which can be selected on the timing relay. This is supplied together with the multifunctional timing relay. The same potential must be applied to terminals A. and B. Functions, [see the overview of functions on page 10/41](#)

0	0	--	2 ²⁾	--	0.05 s ... 100 h	24	24	A	3RP2505-1BB30	A	3RP2505-2BB30
						400 ... 440	--	A	3RP2505-1BT20	A	3RP2505-2BT30
						12 ... 240	12 ... 240	A	3RP2505-1BW30	A	3RP2505-2BW30

3RP251. and 3RP252. timing relays, ON-delay

0	0	0	1	--	0.5 ... 10 s	12 ... 240	12 ... 240	A	3RP2511-1AW30	A	3RP2511-2AW30
					1 ... 30 s	12 ... 240	12 ... 240	A	3RP2512-1AW30	A	3RP2512-2AW30
					5 ... 100 s	12 ... 240	12 ... 240	A	3RP2513-1AW30	A	3RP2513-2AW30
					0.05 s ... 100 h	12 ... 240	12 ... 240	A	3RP2525-1AW30	A	3RP2525-2AW30

0	0	0	2	--	0.05 s ... 100 h	24	24	A	3RP2525-1BB30	A	3RP2525-2BB30
						12 ... 240	12 ... 240	A	3RP2525-1BW30	A	3RP2525-2BW30

0	1	0	0	✓	0.05 s ... 240 s	12 ... 240	12 ... 240	A	3RP2527-1EW30	A	3RP2527-2EW30
---	---	---	---	---	------------------	------------	------------	---	----------------------	---	----------------------

3RP2535 timing relays, OFF-delay with control signal

0	0	0	1	--	0.05 s ... 100 h	12 ... 240	12 ... 240	A	3RP2535-1AW30	A	3RP2535-2AW30
---	---	---	---	----	------------------	------------	------------	---	----------------------	---	----------------------

3RP2540 timing relays, OFF-delay, without control signal, non-volatile, passing make contact

0	0	0	1	--	0.05 s ... 600 s	24	24	A	3RP2540-1AB30	A	3RP2540-2AB30
						12 ... 240	12 ... 240	A	3RP2540-1AW30	A	3RP2540-2AW30

0	0	0	2	--	0.05 s ... 600 s	24	24	A	3RP2540-1BB30	A	3RP2540-2BB30
						12 ... 240	12 ... 240	A	3RP2540-1BW30	A	3RP2540-2BW30

3RP2555 timing relays, clock-pulse relay, flashing, asymmetrical

0	0	0	1	--	0.05 s ... 100 h	12 ... 240	12 ... 240	A	3RP2555-1AW30	A	3RP2555-2AW30
---	---	---	---	----	------------------	------------	------------	---	----------------------	---	----------------------

3RP2560 timing relays, wye-delta function with overtravel function (idling)

1	2	0	0	--	1 ... 20 s	12 ... 240	12 ... 240	A	3RP2560-1SW30	A	3RP2560-2SW30
---	---	---	---	----	------------	------------	------------	---	----------------------	---	----------------------

3RP257. timing relays, wye-delta function

1	1	0	0	--	1 ... 20 s	380 ... 440 ³⁾	--	A	3RP2574-1NM20	A	3RP2574-2NM20
						12 ... 240	12 ... 240	A	3RP2574-1NW30	A	3RP2574-2NW30

1	1	0	0	--	3 ... 60 s	380 ... 440 ³⁾	--	A	3RP2576-1NM20	A	3RP2576-2NM20
						12 ... 240	12 ... 240	A	3RP2576-1NW30	A	3RP2576-2NW30

✓ Available

-- Not available

1) Positively-driven contacts.

2) Optionally 1 CO delayed + 1 CO instantaneous.

3) With 3RP2574-.NM20 and 3RP2576-.NM20, connection of 200 ... 240 V AC, 50/60 Hz control voltage is also possible.

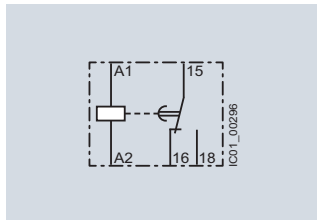
For accessories, [see page 11/38](#).

Timing Relays

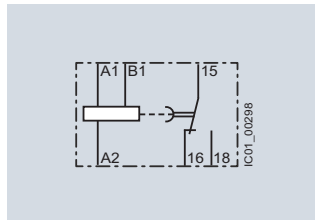
3RP25 timing relays, 17.5 mm and 22.5 mm

Internal circuit diagrams 3RP25

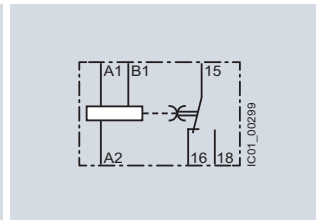
Multifunction 3RP2505-.A, 13 functions, 1 CO



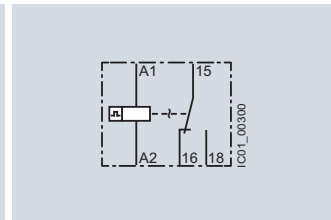
3RP2505-.A (A)
ON-delay



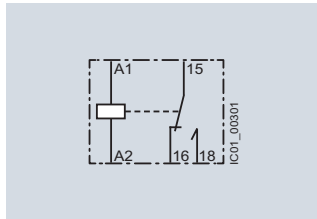
3RP2505-.A (B)
OFF-delay with control signal



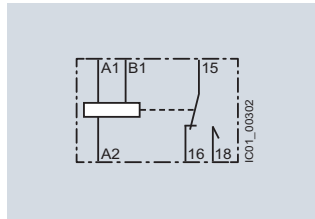
3RP2505-.A (C)
ON-delay/OFF-delay
with control signal



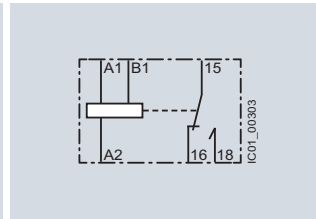
3RP2505-.A (D)
Flashing, symmetrical,
starting with interval



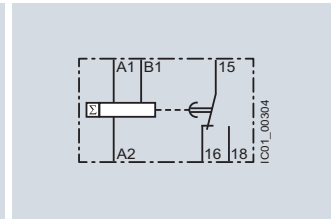
3RP2505-.A (E)
Passing make contact, interval relay



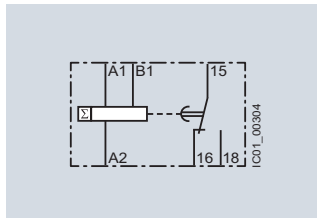
3RP2505-.A (F)
Retriggerable interval relay with
deactivated control signal (passing
break contact with control signal)



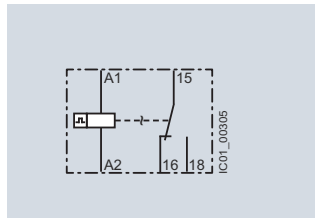
3RP2505-.A (G)
Passing make contact with
control signal, not retriggerable
(pulse-forming with control signal)



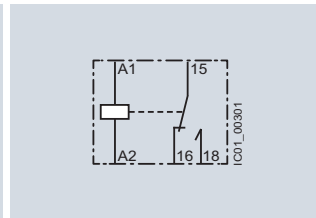
3RP2505-.A (H)
Additive ON-delay, instantaneous OFF
with control signal



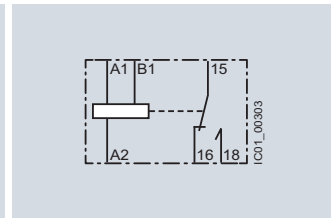
3RP2505-.A (I)
Additive ON-delay with control signal



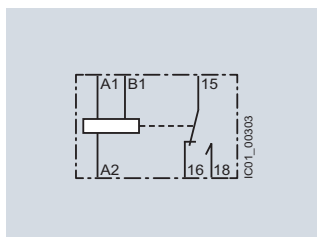
3RP2505-.A (J)
Flashing, symmetrical,
starting with pulse



3RP2505-.A (K)
Pulse-delayed (fixed pulse (at 1 s)
and settable pulse delay)



3RP2505-.A (L)
Pulse-delayed with control signal (fixed
pulse (at 1 s) and settable pulse delay)

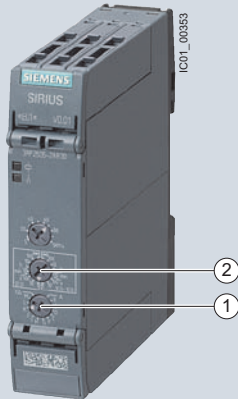


3RP2505-.A (M)
Retriggerable interval relay with
activated control signal (watchdog)

Timing Relays

3RP25 timing relays, 17.5 mm and 22.5 mm

Two setting options for implementing the multifunctions (A-M):



- ① Determination of 13 functions by the setting A to M, with 1 CO, 1 NO, 2 CO that switch in parallel.
- ② Extended function variance by selecting the time range and determining, whether 2 CO switch in parallel or whether 1 CO switches with delay + 1 CO switches immediately (1 CO + 1 CO)

Setting the functions on the device

Overview of functions of the 3RP2505 multifunctional timing relay

Identification letter	13 functions 1 CO, 1 NO (semiconductor) or 2 CO switched in parallel	27 functions 13 functions (A - M) 2 CO switched in parallel + 13 functions (A - M) 1 CO delayed + 1 CO instantaneous (1 CO + 1 CO) and wye-delta function
A	ON-delay	ON-delay and instantaneous contact
B	OFF-delay with control signal	OFF-delay with control signal and instantaneous contact
C	ON-delay/OFF-delay with control signal	ON-delay/OFF-delay with control signal and instantaneous contact
D	Flashing, symmetrical, starting with interval	Flashing, symmetrical, starting with interval and instantaneous contact
E	Passing make contact, interval relay	Passing make contact, interval relay and instantaneous contact
F	Retriggerable interval relay with deactivated control signal (passing break contact with control signal)	Retriggerable interval relay with deactivated control signal (passing break contact with control signal) and instantaneous contact
G	Passing make contact, with control signal, not retriggerable (pulse-forming with control signal)	Passing make contact, with control signal, not retriggerable (pulse-forming with control signal) and instantaneous contact
H	Additive ON-delay, instantaneous OFF with control signal	Additive ON-delay, instantaneous OFF with control signal and instantaneous contact
I	Additive ON-delay with control signal	Additive ON-delay with control signal and instantaneous contact
J	Flashing, symmetrical, starting with pulse	Flashing, symmetrical, starting with pulse and instantaneous contact
K	Pulse-delayed (fixed pulse (at 1 s) and settable pulse delay)	Pulse-delayed (fixed pulse (at 1 s) and settable pulse delay) and instantaneous contact
L	Pulse-delayed with control signal (fixed pulse (at 1 s) and settable pulse delay)	Pulse-delayed with control signal (fixed pulse (at 1 s) and settable pulse delay) and instantaneous contact
M	Retriggerable interval relay with activated control signal (watchdog)	Retriggerable interval relay with activated control signal and instantaneous contact (watchdog)
--	--	Wye-delta function

Note:

Conversion tool e.g. from 3RP15 to 3RP25, see www.siemens.com/sirius/conversion-tool.