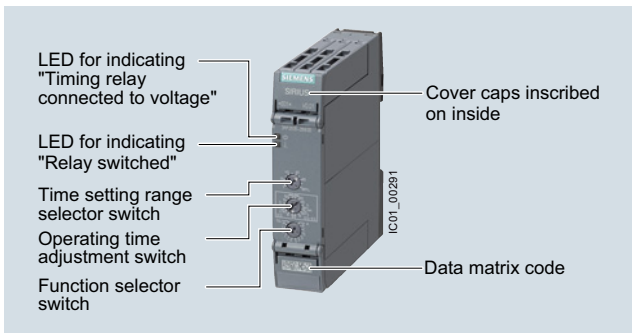


Relays

Timing Relays

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

Overview



SIRIUS 3RP25 timing relays

Electronic timing relays for general use in control systems and mechanical engineering with:

- 1 or 2 CO, 1 NO (semiconductor) or 3 NO
- Monofunction or multifunction
- Combination voltage
- Wide voltage range
- Single or selectable time setting ranges
- Switch position indication and voltage indication by LED

Standards

The timing relays comply with:

- IEC 60721-3-3 "Classification of environmental conditions"
- IEC 61812-1/DIN VDE 0435 Part 2021 "Specified time relays for industrial use"
- IEC 61000-6-2, IEC 61000-6-3 and IEC 61000-6-4 "Electromagnetic compatibility"
- IEC 60947-5-1 "Low-voltage switchgear and controlgear – Electromechanical control circuit devices"

3RP2505 multifunctional timing relays

The functions of the 3RP2505 multifunctional timing relays can be set by means of the function selector switch. Whether both CO contacts are switched in parallel or one CO contact with a delay and one instantaneously and the choice of time setting range are set by means of the time setting range selector switch. The exact operating time can be adjusted with the operating time switch.

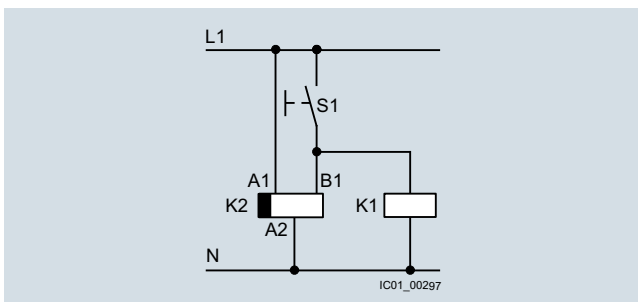
With a set of foil labels the timing relay can be legibly marked with the functions which can be selected on the timing relay. This is supplied together with the multifunctional timing relay.

The same potential must be applied to terminals A. and B.

Functions, [see the overview of functions on page 10/41](#).

Note:

The activation of loads parallel to the start input is permissible when using AC/DC control voltage ([see diagram](#)).

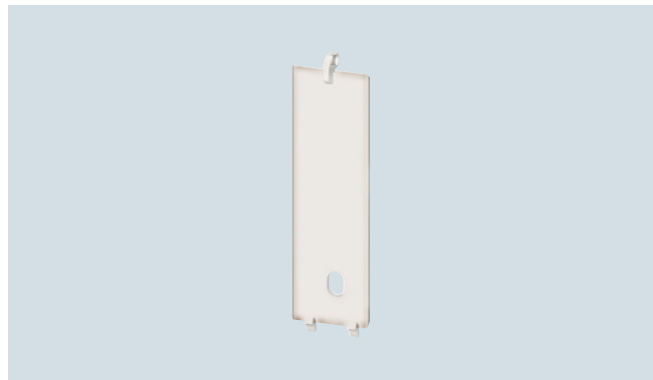


Diagram

Accessories



Push-in lugs for wall mounting



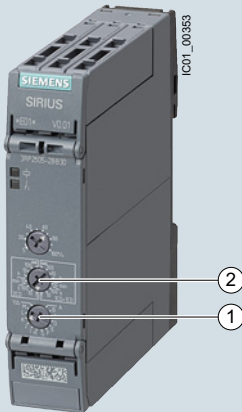
Sealable cover 17.5 mm



Sealable cover 22.5 mm

SIRIUS 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.

Relays

Timing Relays

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

Article No. scheme

Digit of the Article No.	1 st - 5 th	6 th	7 th	-	8 th	9 th	10 th	11 th	12 th
	□□□□□	□	□	-	□	□	□	□	0
Timing relays in industrial enclosure 17.5 mm and 22.5 mm	3 R P 25								
Functions/time setting ranges		□	□						
Connection type					□				
Contacts						□			
Rated control supply voltage							□	□	
Example	3 R P 25	0	5	-	1	A	W	3	0

Note:

The Article No. scheme is presented here merely for information purposes and for better understanding of the logic behind the article numbers.

For your orders, please use the article numbers quoted in the catalog in the Selection and ordering data.

Benefits

- Easy stock keeping and logistics thanks to low variance of devices
- Reduced space requirement in the control cabinet thanks to variants in width 17.5 mm and 22 mm
- Consistent for all functions thanks to wide voltage range from 12 to 240 V AC/DC
- Up to 27 functions according to IEC 61812 in the multifunctional timing relay with wide voltage range
- Multifunctional timing relay with semiconductor output for high switching frequencies, bounce-free and wear-free switching

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.

Enclosure version

All timing relays are suitable for snap-on mounting onto TH 35 standard mounting rails according to IEC 60715 or for screw fixing.



SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

Technical specifications

Type	3RP2505-A, 3RP2505-C, 3RP251., 3RP2525-A, 3RP2527, 3RP253., 3RP255.	3RP2505-B, 3RP2505-R, 3RP2525-B, 3RP254., 3RP256., 3RP257.
Width	mm 17.5	22.5
Height	mm 100	100
Depth	mm 90	90



Type	3RP25...-AB30, 3RP25...-AW30, 3RP25...-BB30, 3RP25...-BW30, 3RP25...-NW30, 3RP25...-SW30	3RP25...-BT20, 3RP25...-NM20	3RP25...-CW30	3RP25...-EW30	3RP25...-RW30
Insulation voltage For overvoltage category III According to IEC 60664 For pollution degree 3, rated value	V AC 300	500	300	--	300
Ambient temperature • During operation • During storage	°C -25 ... +60 °C -40 ... +85				-40 ... +70
Operating range factor Of the control supply voltage, rated value • At AC - At 50 Hz - At 60 Hz • At DC	0.85 ... 1.1 0.85 ... 1.1 0.85 ... 1.1	--	0.85 ... 1.1	0.85 ... 1.1	0.7 ... 1.1 0.7 ... 1.1 0.7 ... 1.1
Switching capacity current With inductive load	A 0.01 ... 3	0.01 ... 3	0.01 ... 1	0.01 ... 6	0.01 ... 3
Operational current of the auxiliary contacts • At AC-15 - At 24 V - At 250 V - At 400 V • At DC-12 - At 24 V - At 125 V - At 250 V • At DC-13 - At 24 V - At 125 V - At 250 V	A 3 A 3 A -- A -- A -- A -- A 1 A 0.2 A 0.1	3 3 3	1 1 -- 1 1 -- -- -- --	-- -- -- -- -- -- -- -- --	3 3 -- -- -- -- 1 0.2 0.1
Uninterrupted thermal current I_{th}	A 5	5	1	0.6	5
Mechanical endurance (Operating cycles) Typical	10 x 10 ⁶				
Electrical endurance For AC-15 at 230 V, typical (Operating cycles)	1 x 10 ⁵				

Type	3RP25
Connection type	 Screw terminals
• Design of thread of connection screw	M3
• Solid	mm ² 1 x (0.5 ... 4.0)/2 x (0.5 ... 2.5)
• Finely stranded with end sleeve	mm ² 1 x (0.5 ... 4)/2 x (0.5 ... 1.5)
• Solid for AWG cables	AWG 1 x (20 ... 12), 2 x (20 ... 14)
• Stranded for AWG cables	AWG 1 x (20 ... 12), 2 x (20 ... 14)
• Tightening torque	Nm 0.6 ... 0.8
Connection type	 Spring-type terminals
• Solid	mm ² 1 x (0.5 ... 4)
• Finely stranded with end sleeve	mm ² 1 x (0.5 ... 2.5)
• AWG cables, solid	AWG 1 x (20 ... 12)
• AWG cables, stranded	AWG --

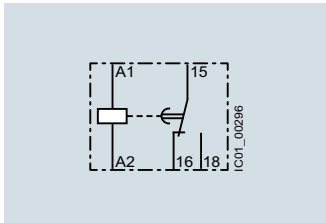
Relays

Timing Relays

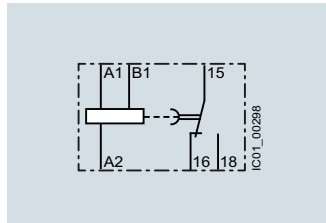
SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

Internal circuit diagrams 3RP25

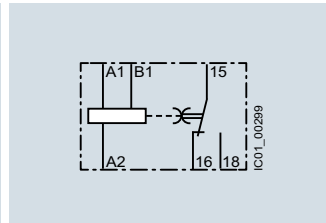
Multifunction 3RP2505-.A, 13 functions, 1 CO



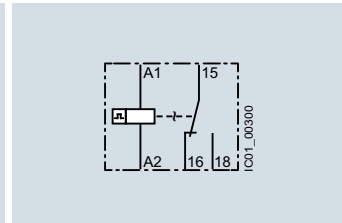
3RP2505-.A (A)
ON-delay



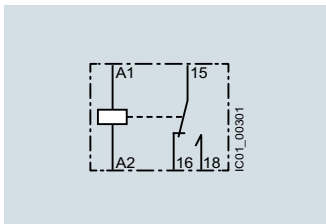
3RP2505-.A (B)
OFF-delay with control signal



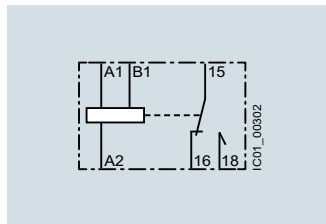
3RP2505-.A (C)
ON-delay/OFF-delay
with control signal



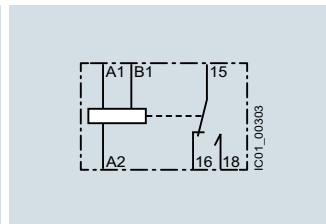
3RP2505-.A (D)
Flashing, symmetrical,
starting with interval



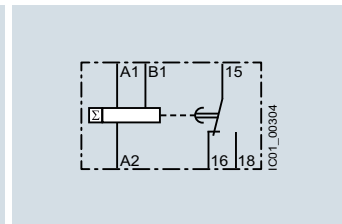
3RP2505-.A (E)
Passing make contact, interval relay



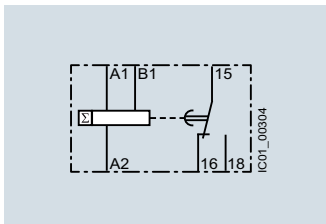
3RP2505-.A (F)
Retriggerable interval relay with
deactivated control signal (passing
break contact with control signal)



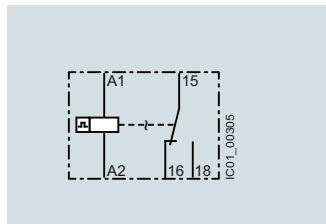
3RP2505-.A (G)
Passing make contact with
control signal, not retriggerable
(pulse-forming with control signal)



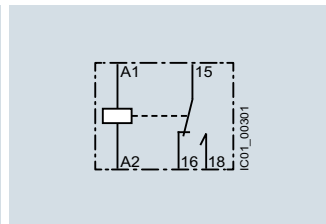
3RP2505-.A (H)
Additive ON-delay, instantaneous OFF
with control signal



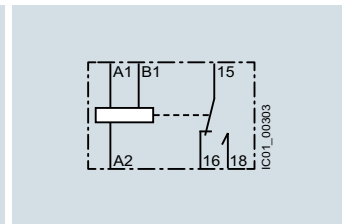
3RP2505-.A (I)
Additive ON-delay with control signal



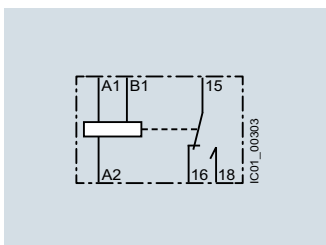
3RP2505-.A (J)
Flashing, symmetrical,
starting with pulse



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



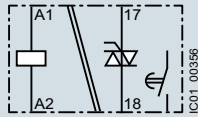
3RP2505-.A (L)
Pulse-delayed with control signal (fixed
pulse (at 1 s) and settable pulse delay)



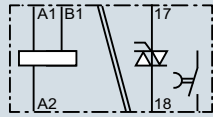
3RP2505-.A (M)
Retriggerable interval relay with
activated control signal (watchdog)

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

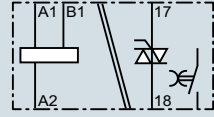
Multifunction 3RP2505-C, 13 functions, 1 NO (semiconductor)



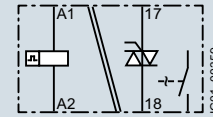
3RP2505-C (A)
ON-delay



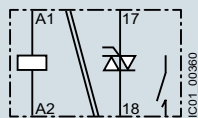
3RP2505-C (B)
OFF-delay with control signal



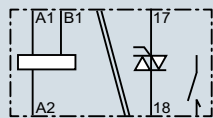
3RP2505-C (C)
ON-delay/OFF-delay
with control signal



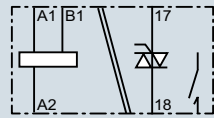
3RP2505-C (D)
Flashing, symmetrical,
starting with interval



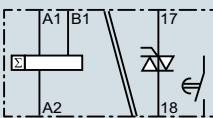
3RP2505-C (E)
Passing make contact, interval relay



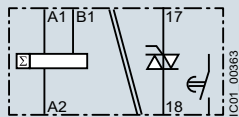
3RP2505-C (F)
Retriggerable interval relay with
deactivated control signal (passing
break contact with control signal)



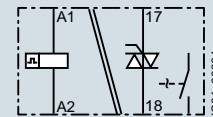
3RP2505-C (G)
Passing make contact with
control signal, not retriggerable
(pulse-forming with control signal)



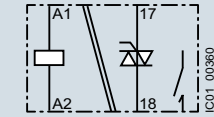
3RP2505-C (H)
Additive ON-delay, instantaneous OFF
with control signal



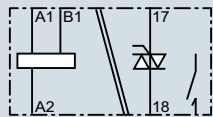
3RP2505-C (I)
Additive ON-delay with control signal



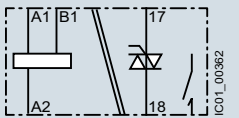
3RP2505-C (J)
Flashing, symmetrical,
starting with pulse



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



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



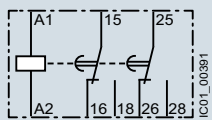
3RP2505-C (M)
Retriggerable interval relay with
activated control signal (watchdog)

Relays

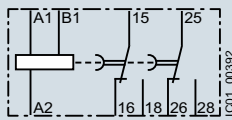
Timing Relays

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

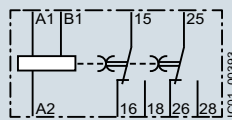
Multifunction 3RP2505-.B, 27 functions, 2 CO switched in parallel with delay/
 multifunction 3RP2505-.R, 13 functions, 2 CO positively driven, and switched in parallel with delay (see also note below)



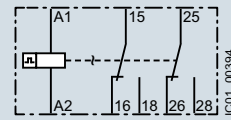
3RP2505-.B (A)
ON-delay



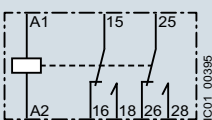
3RP2505-.B (B)
OFF-delay with control signal



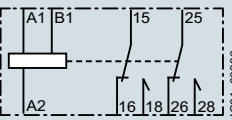
3RP2505-.B (C)
ON-delay/OFF-delay with control signal



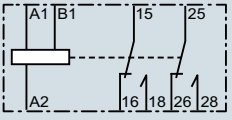
3RP2505-.B (D)
Flashing, symmetrical, starting with interval



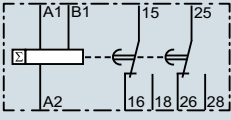
3RP2505-.B (E)
Passing make contact, interval relay



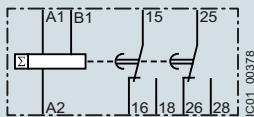
3RP2505-.B (F)
Retriggerable interval relay with deactivated control signal (passing break contact with control signal)



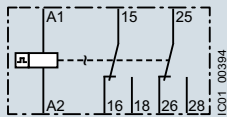
3RP2505-.B (G)
Passing make contact with control signal (not retriggerable) (pulse-forming with control signal)



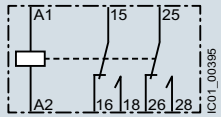
3RP2505-.B (H)
Additive ON-delay, instantaneous OFF with control signal



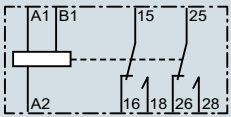
3RP2505-.B (I)
Additive ON-delay with control signal



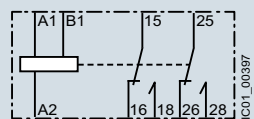
3RP2505-.B (J)
Flashing, symmetrical, starting with pulse



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



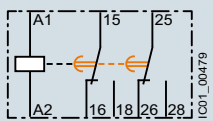
3RP2505-.B (L)
Pulse-delayed with control signal (fixed pulse (at 1 s) and settable pulse delay)



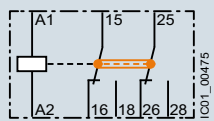
3RP2505-.B (M)
Retriggerable interval relay with activated control signal (watchdog)

Note:

3RP2505-.RW30 has 13 functions (A to M) like 3RP2505-.B switched in parallel with delay, but with positively driven contacts. The circuit diagrams are identical except for the representation of the symbols for these contacts, see also the example on the right for 3RP2505-.RW30 of the function (A) with ON-delay.



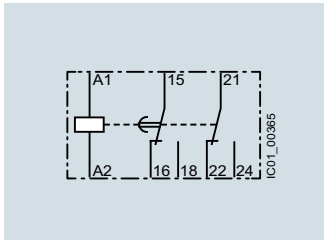
3RP2505-.B (A)
ON-delay



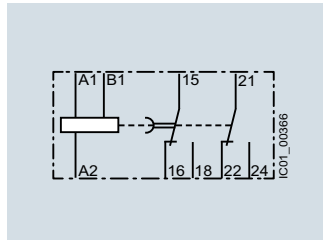
3RP2505-.R (A)
with positively driven contacts
ON-delay

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

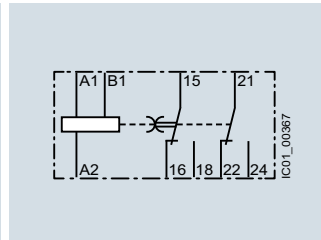
Multifunction 3RP2505-B, 27 functions, 1 CO delayed + 1 CO instantaneous (continued)



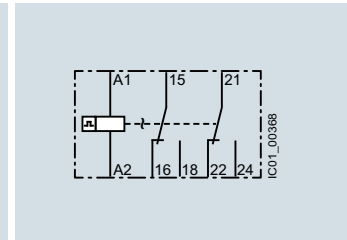
3RP2505-B (A)
ON-delay and instantaneous contact



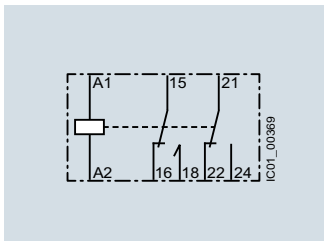
3RP2505-B (B)
OFF-delay with control signal and instantaneous contact



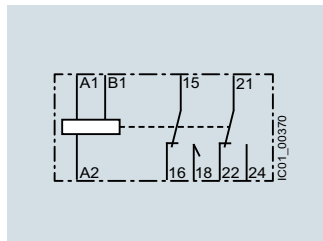
3RP2505-B (C)
ON-delay/OFF-delay with control signal and instantaneous contact



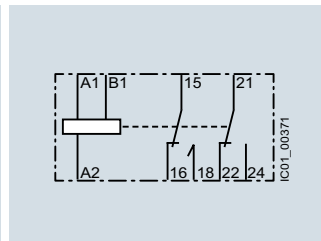
3RP2505-B (D)
Flashing, symmetrical, starting with interval and instantaneous contact



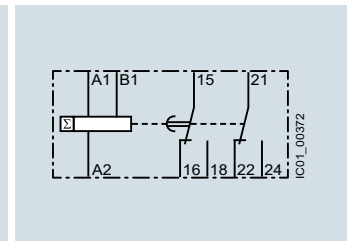
3RP2505-B (E)
Passing make contact, interval relay and instantaneous contact



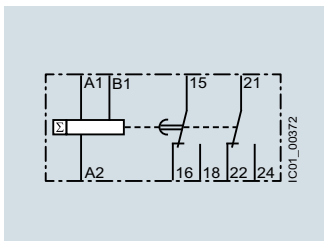
3RP2505-B (F)
Retriggerable interval relay with deactivated control signal (passing break contact with control signal) and instantaneous contact



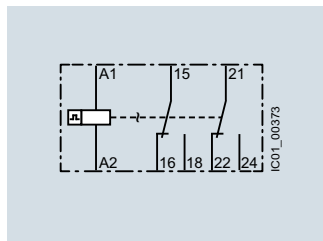
3RP2505-B (G)
Passing make contact with control signal, not retriggerable (pulse-forming with control signal) and instantaneous contact



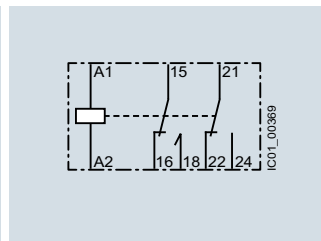
3RP2505-B (H)
Additive ON-delay, instantaneous OFF with control signal and instantaneous contact



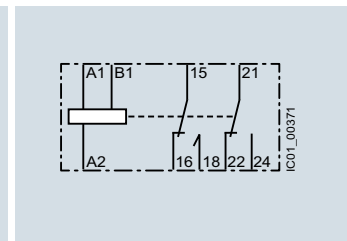
3RP2505-B (I)
Additive ON-delay with control signal and instantaneous contact



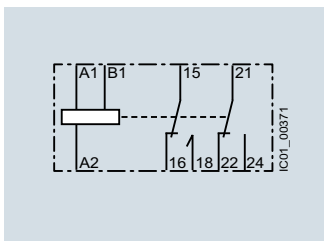
3RP2505-B (J)
Flashing, symmetrical, starting with pulse and instantaneous contact



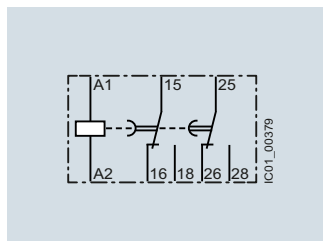
3RP2505-B (K)
Pulse-delayed (fixed pulse (at 1 s) and settable pulse delay) and instantaneous contact



3RP2505-B (L)
Pulse-delayed with control signal (fixed pulse (at 1 s) and settable pulse delay) and instantaneous contact



3RP2505-B (M)
Retriggerable interval relay with activated control signal and instantaneous contact (watchdog)



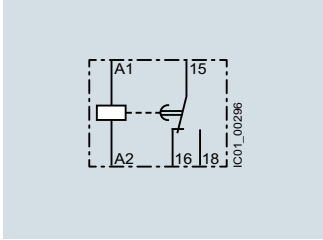
3RP2505-B
Wye-delta function

Relays

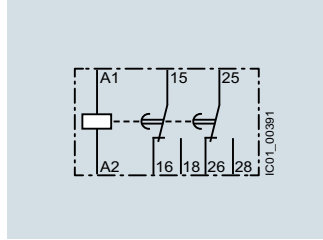
Timing Relays

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

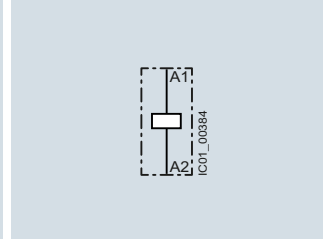
Monofunctions 3RP251. up to 3RP257.¹⁾



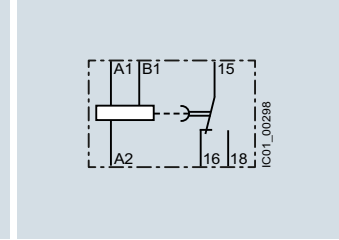
3RP251., 3RP2525-A
ON-delay



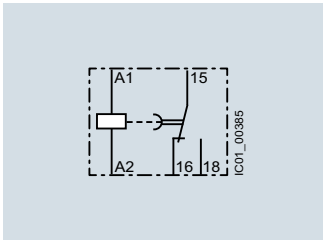
3RP2525-B
ON-delay



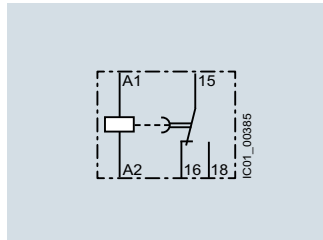
3RP2527
ON-delay, two-wire design



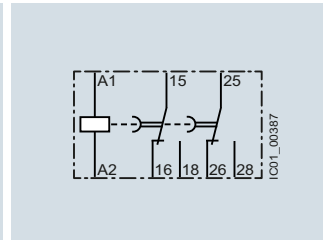
3RP2535
OFF-delay with control signal



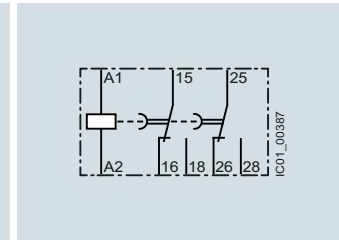
3RP2540-A (N)¹⁾
OFF-delay



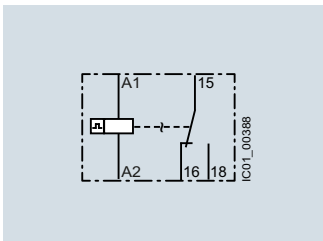
3RP2540-A (O)¹⁾
Positive passing make contact



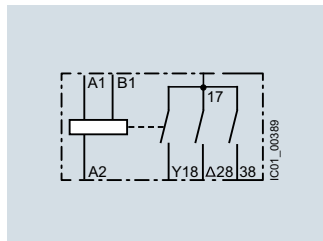
3RP2540-B (N)¹⁾
OFF-delay



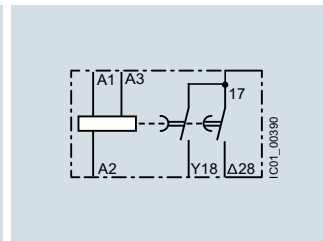
3RP2540-B (O)¹⁾
Positive passing make contact



3RP2555
Flashing, asymmetrical, starting with interval (clock-pulse relay)



3RP2560
Wye-delta function with overtravel function (idling)

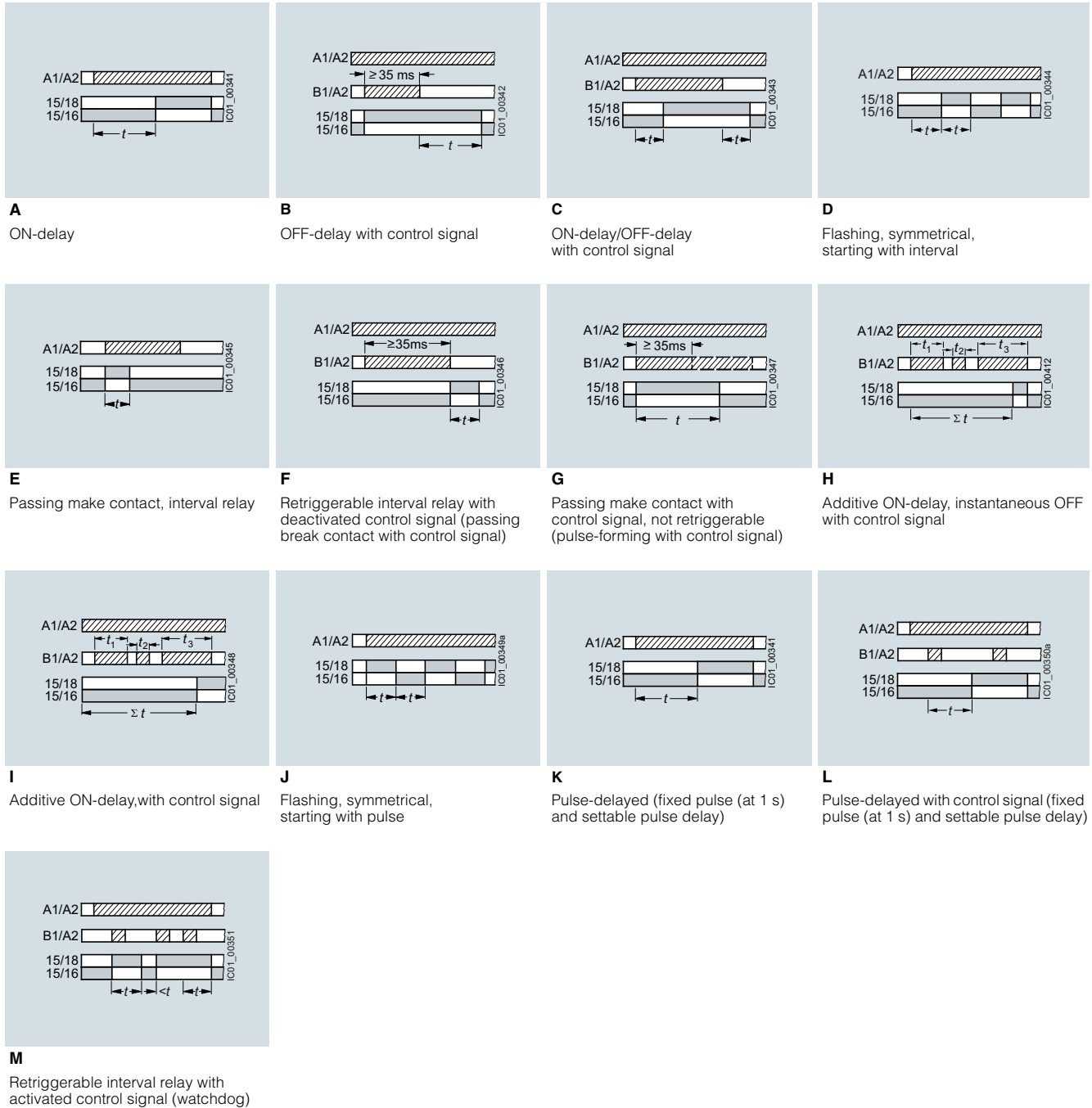


3RP257.
Wye-delta function

¹⁾ 3RP2540 has a double function:
Function N = OFF-delay
Function O = Positive passing make contact.

3RP25 function diagrams

Multifunction 3RP2505-.A, 1 CO, 13 functions and 3RP2505-.C, 1 NO (semiconductor), 13 functions



Legend

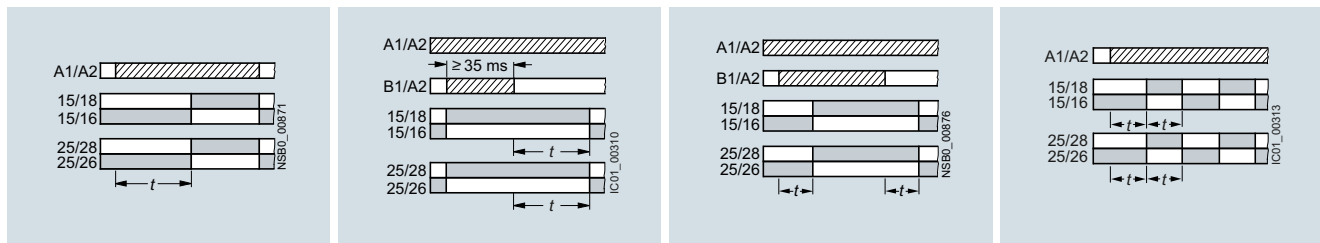
- A ... M** Identification letters
- Timing relay energized
- Contact closed
- Contact open

Relays

Timing Relays

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

Multifunction 3RP2505-.B, 13 functions, 2 CO positively driven and switched in parallel with delay

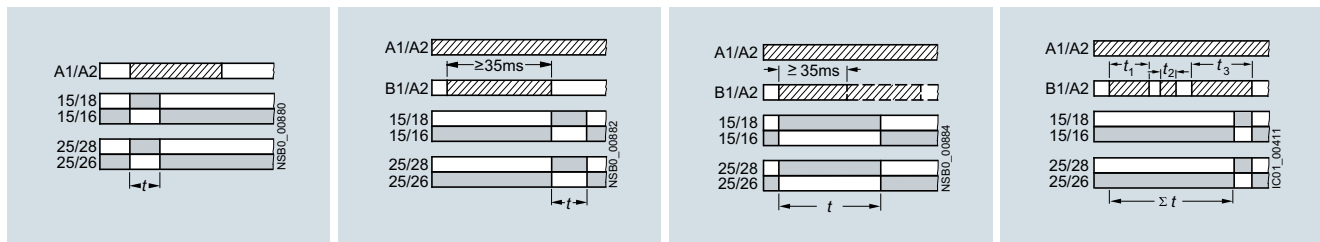


A
ON-delay

B
OFF-delay with control signal

C
ON-delay/OFF-delay with control signal

D
Flashing, symmetrical, starting with interval

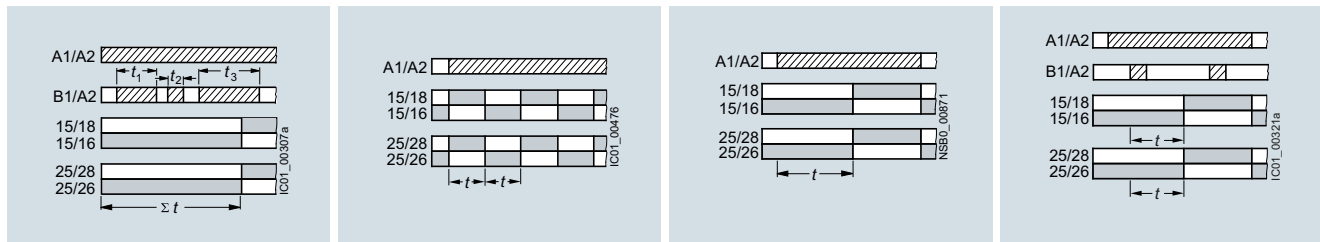


E
Passing make contact, interval relay

F
Retriggerable interval relay with deactivated control signal (passing break contact with control signal)

G
Passing make contact with control signal, not retriggerable (pulse-forming with control signal)

H
Additive ON-delay, instantaneous OFF with control signal

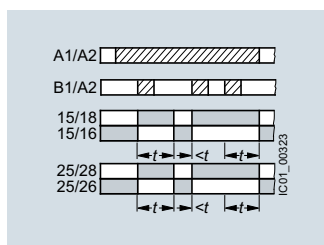


I
Additive ON-delay with control signal

J
Flashing, symmetrical, starting with pulse

K
Pulse-delayed (fixed pulse at 1 s and settable pulse delay)

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



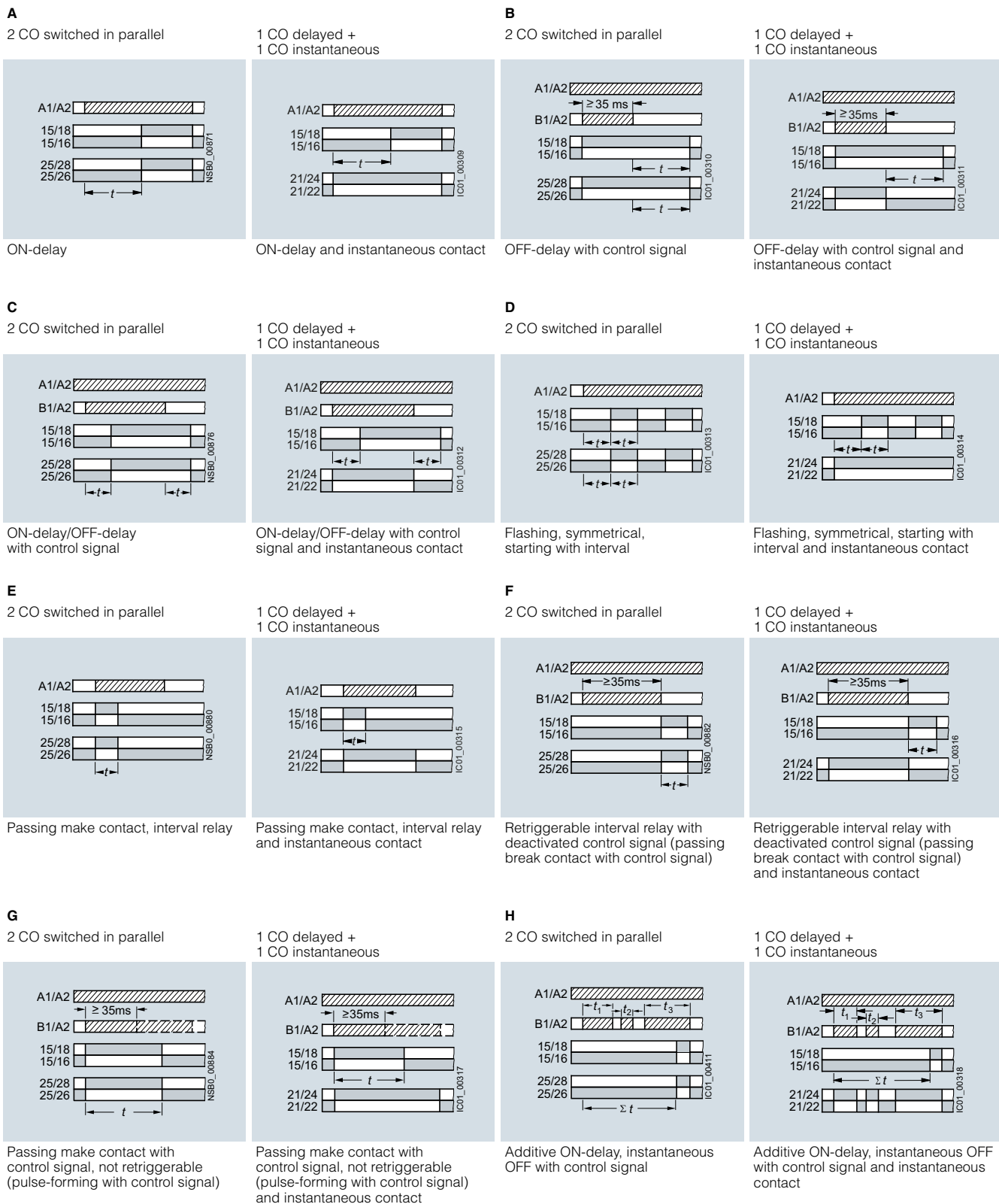
M
Retriggerable interval relay with activated control signal (watchdog)

Legend

- A ... M** Identification letters
- Timing relay energized
- Contact closed
- Contact open

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

Multifunction 3RP2505-B, 27 functions, 2 CO



Legend

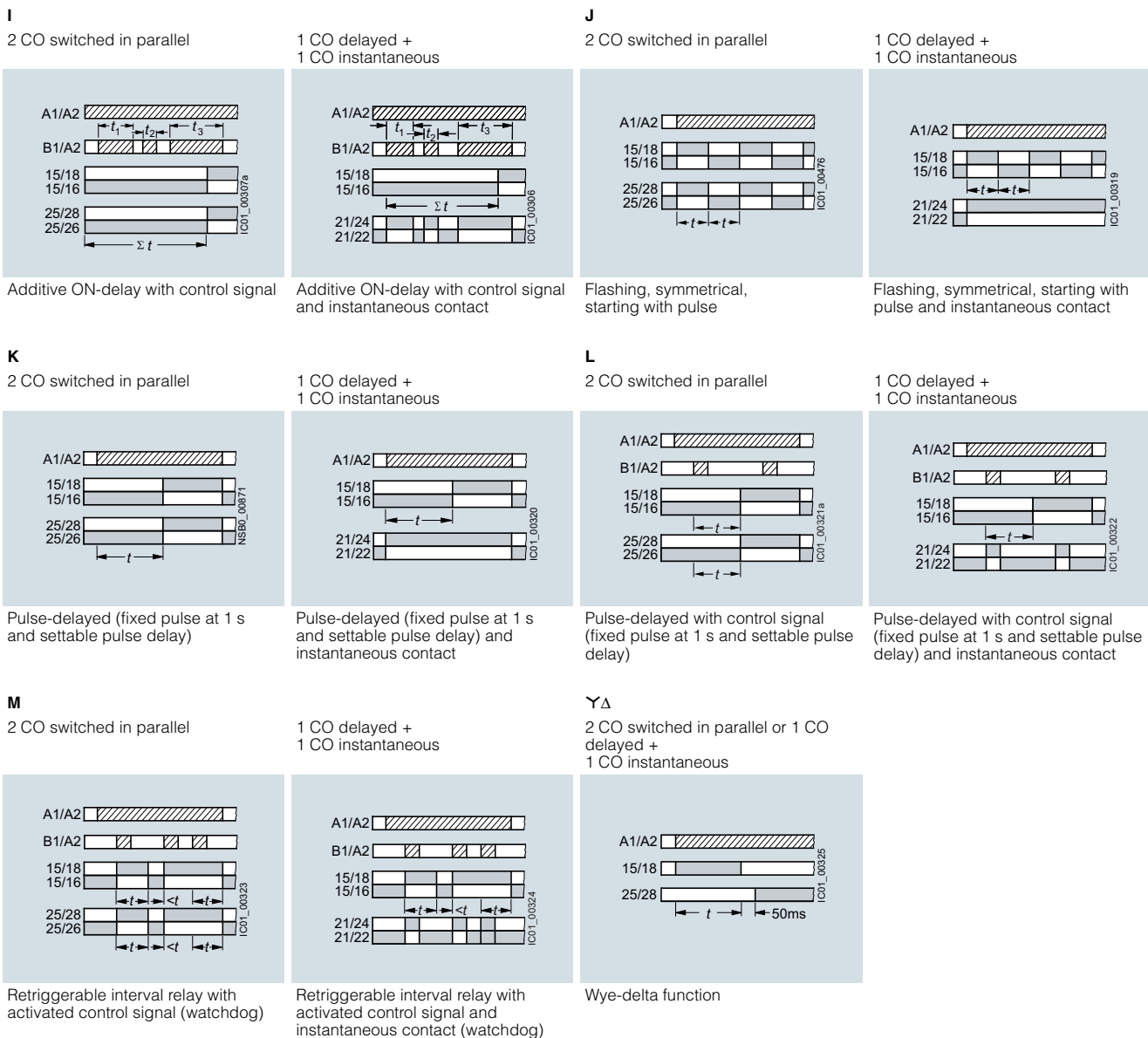
- A ... M** Identification letters
- Timing relay energized
- Contact closed
- Contact open

Relays

Timing Relays

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

Multifunction 3RP2505-B, 27 functions, 2 CO (continued)

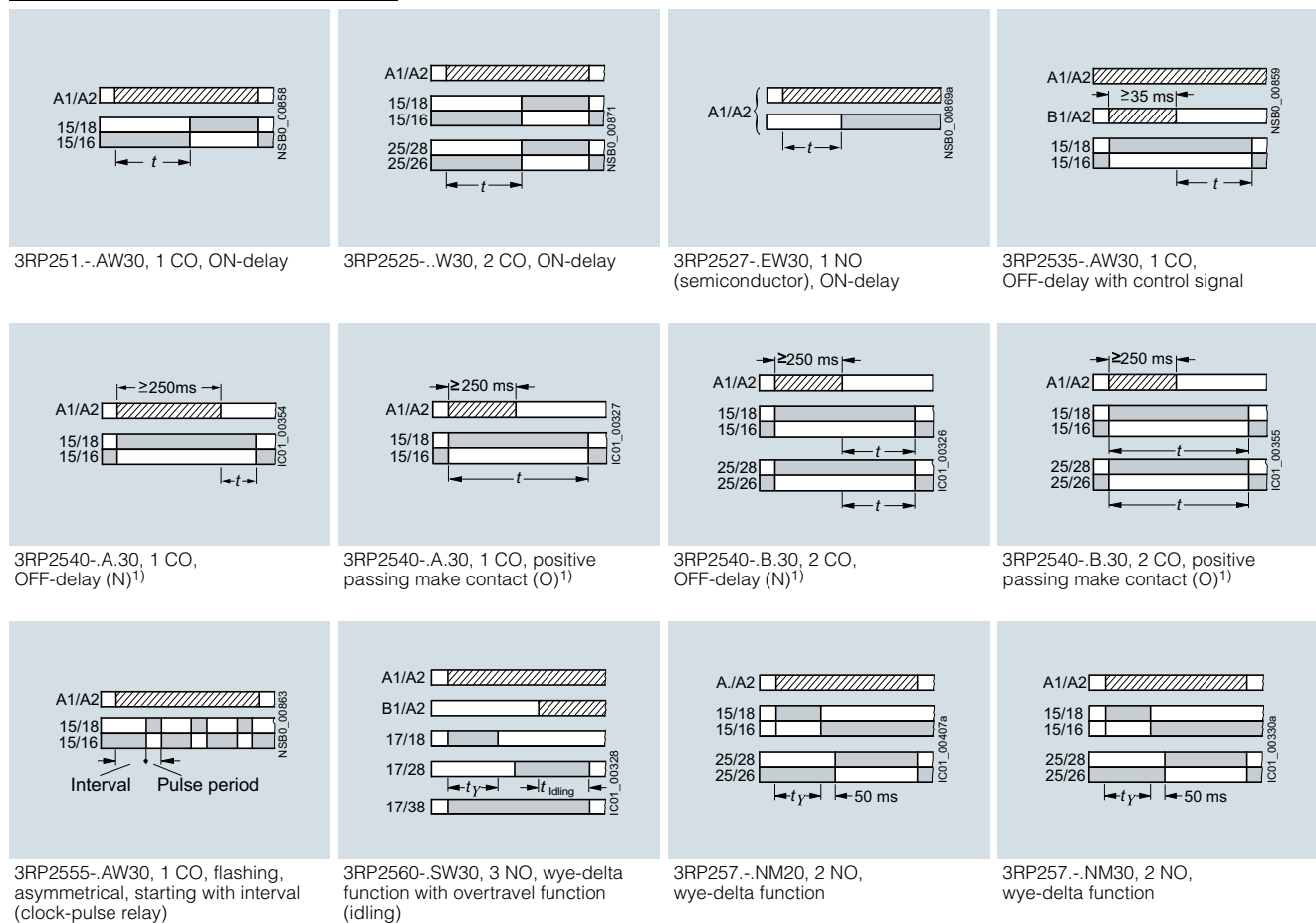


Legend

- A ... M** Identification letters
- Timing relay energized
- Contact closed
- Contact open

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

Monofunctions 3RP251. up to 3RP257.¹⁾



Legend

- Timing relay energized
- Contact closed
- Contact open

¹⁾ 3RP2540 has a double function:
Function N = OFF-delay
Function O = positive passing make contact.

Relays

Timing Relays

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

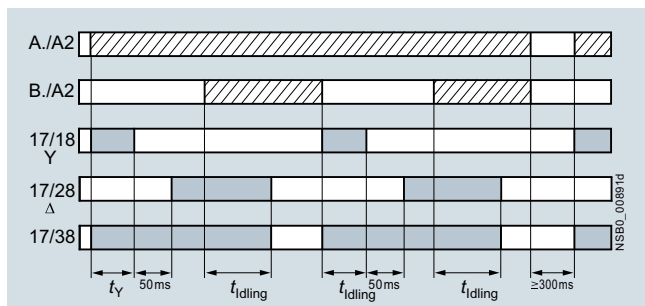
Possibilities of operation of the 3RP2560-.SW30 timing relay

Operation 1: Start contact B./A2 is open when control supply voltage A./A2 is applied

The control supply voltage is applied to A./A2 and there is no control signal on B./A2. This starts the $\Upsilon\Delta$ timing. The idling time (coasting time) is started by applying a control signal to B./A2. When the set time t_{idling} (30 ... 600 s) has elapsed, the output relays (17/38 and 17/28) are reset. If the control signal on B./A2 is switched off (minimum OFF period 270 ms), a new timing is started.

Note:

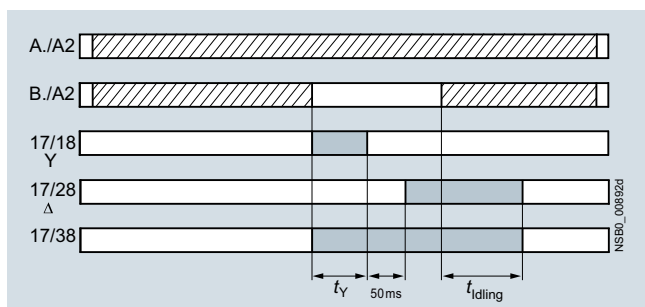
Observe response time (dead time) of 400 ms on energizing control supply voltage until contacts 17/18 and 17/16 close.



Operation 1

Operation 2: Start contact B./A2 is closed when control supply voltage A./A2 is applied

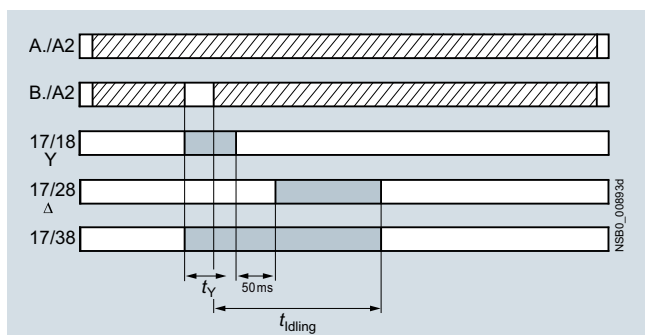
If the control signal B./A2 is already present when the control supply voltage A./A2 is applied, **no** timing is started. The timing is only started when the control signal B./A2 is switched off.



Operation 2

Operation 3: Start contact B./A2 closes while star time is running

If the control signal B./A2 is applied again during the star time, the idling time starts and the timing is terminated normally.

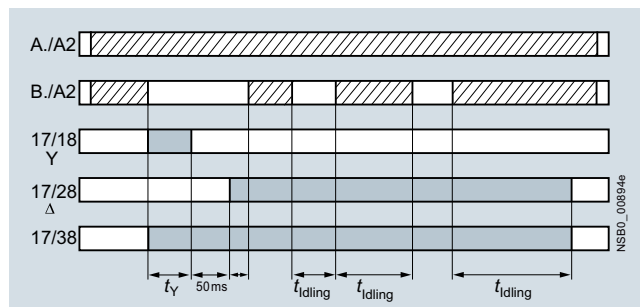


Operation 3

Operation 4: Start contact B./A2 opens while delta time is running and is applied again

If the control signal on B./A2 is applied and switched off again during the delta time, although the idling time has not yet

elapsed, the idling time (coasting time) is reset to zero. If the control signal is re-applied to B./A2, the idling time is restarted.



Operation 4

Legend

▨ Timing relay energized

■ Contact closed

□ Contact open

t_Y = Star time 1 ... 20 s

t_{idling} = Idling time (coasting time) 30 ... 600 s

Note:

The following applies to all operations: The pressure switch controls the timing via B./A2.

Application example based on standard operation (operation 1): For example, use of 3RP2560 for compressor control

Frequent starting of compressors strains the network, the machine, and the increased costs for the operator. The new timing relay prevents frequent starting at times when there is high demand for compressed air. A special control circuit prevents the compressor from being switched off immediately when the required air pressure in the tank has been reached. Instead, the valve in the intake tube is closed and the compressor runs in "Idling" mode, i.e. in no-load operation for a specific time which can be set from 30 ... 600 s.

If the pressure falls within this time, the motor does not have to be restarted again, but can return to nominal load operation from no-load operation.

If the pressure does not fall within this idling time, the motor is switched off.

The pressure switch controls the timing via B./A2.

The control supply voltage is applied to A./A2 and the start contact B./A2 is open, i.e. there is no control signal on B./A2 when the control supply voltage is applied. The pressure switch signals "too little pressure in system" and starts the timing by way of terminal B./A2. The compressor is started, enters $\Upsilon\Delta$ operation, and fills the pressure tank.

When the pressure switch signals "sufficient pressure", the control signal B./A2 is applied, the idling time (coasting time) is started, and the compressor enters no-load operation for the set period of time from 30 ... 600 s. The compressor is then switched off. The compressor is only restarted if the pressure switch responds again (low pressure).

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

Selection and ordering data

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



3RP2505-2AB30



3RP2505-2BB30



3RP2525-2AW30



3RP2540-2AW30



3RP2555-2AW30



3RP2576-2NW30

Number of NO contacts	Instantaneous switching	Number of CO contacts	Delayed switching	Semi-conductor output	Adjustable time	Control supply voltage		DT	Screw terminals		DT	Spring-type terminals (push-in)	
						At AC 50/60 Hz	At DC		Article No.	Price per PU		Article No.	Price per PU
						V	V						

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	3RP2505-2BT20
						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 10/56.











* You can order this quantity or a multiple thereof.
 Illustrations are approximate

Relays

Timing Relays

SIRIUS 3RP25 timing relays, 17.5 mm and 22.5 mm

Accessories

Version	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	
Accessories for enclosures							
 3ZY1321-1AA00		Sealing covers					
		• 17.5 mm	A	3ZY1321-1AA00	1	5 units	41L
 3ZY1321-2AA00		• 22.5 mm	A	3ZY1321-2AA00	1	5 units	41L
 3ZY1311-0AA00		Push-in lugs					
		For wall mounting	A	3ZY1311-0AA00	1	10 units	41L
 3ZY1440-0AA00		Coding pins					
		For removable terminals of SIRIUS devices in the industrial standard mounting rail enclosure; enable the mechanical coding of terminals	A	3ZY1440-1AA00	1	12 units	41L
Terminals for SIRIUS devices in the industrial standard mounting rail enclosure							
 3ZY1122-1BA00		Removable terminals					
		• 2-pole, screw terminals 1 x 4 mm ²	A	Screw terminals 	1	6 units	41L
 3ZY1122-2BA00		• 2-pole, push-in terminals 1 x 4 mm ²	A	Spring-type terminals (push-in) 	1	6 units	41L
Tools for opening spring-type terminals							
 3RA2908-1A		Screwdrivers					
		For all SIRIUS devices with spring-type terminals; 3.0 mm x 0.5 mm; length approx. 200 mm, titanium gray/black, partially insulated	A	Spring-type terminals 	1	1 unit	41B