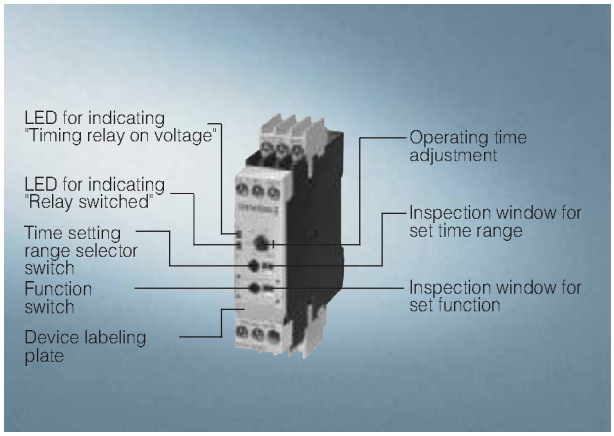
3RP15 timing relays in industrial enclosure, 22.5 mm

Overview



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 switchgear and controlgear"

Accessories

Push-in lugs for screw mounting

Sealable cover

Label set for marking the multifunction relay

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 EN 60715 or for screw fixing.

3RP15 timing relays in industrial enclosure, 22.5 mm

Selection and ordering data

Solid-state timing relays for general use in control systems and mechanical engineering with:

- 1 changeover contact or 2 changeover contacts
- Single or selectable time setting ranges
- Switch position indication by LED
- Voltage indication by LED

Version	Time setting range *t* adjustable by rotary switch to	Rated control supply voltage U_s AC 50/60 Hz V	Rated control supply voltage U_s DC V	DT	Screw terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3RP15 05 timing relays, multifunction, 15 time setting ranges										
The functions can be adjusted by means of rotary switches. Insert labels can be used to adjust different functions of the 3RP15 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.[1]										
 3RP15 05-1B...										
with LED and										
1 CO contact, 8 functions	0.05 ... 1 s 0.15 ... 3 s 0.5 ... 10 s 1.5 ... 30 s	-- 24/100 ... 127 24/200 ... 240 24 ... 240[3]	12 24 24 24 ... 240[3]	A ► ► ►	**3RP15 05-1AA40** **3RP15 05-1AQ30** **3RP15 05-1AP30** **3RP15 05-1AW30**		1 1 1 1	1 unit 1 unit 1 unit 1 unit	101 101 101 101	0.125 0.140 0.141 0.136
2 CO contacts, 16 functions	0.05 ... 1 min 5 ... 100 s 0.15 ... 3 min 0.5 ... 10 min 1.5 ... 30 min	24/100 ... 127 24/200 ... 240 24 ... 240[3] 400 ... 440	24 24 24 ... 240[3] -	► ► ► A	**3RP15 05-1BQ30** **3RP15 05-1BP30** **3RP15 05-1BW30** **3RP15 05-1BT20**		1 1 1 1	1 unit 1 unit 1 unit 1 unit	101 101 101 101	0.162 0.161 0.168 0.169
2 CO contacts, positively driven and hard gold-plated. 8 functions[4][5]	0.05 ... 1 h 5 ... 100 min 0.15 ... 3 h 0.5 ... 10 h 1.5 ... 30 h 5 ... 100 h ∞[2]	24 ... 240	24 ... 240	►	**3RP15 05-1RW30**		1	1 unit	101	0.169
3RP15 1. timing relays, ON-delay, 1 time setting range										
 3RP15 1.-1A...										
with LED and 1 CO contact	0.5 ... 10 s	24/100 ... 127 24/200 ... 240	24 24	► ►	**3RP15 11-1AQ30** **3RP15 11-1AP30**		1 1	1 unit 1 unit	101 101	0.108 0.108
	1.5 ... 30 s	24/100 ... 127 24/200 ... 240	24 24	► ►	**3RP15 12-1AQ30** **3RP15 12-1AP30**		1 1	1 unit 1 unit	101 101	0.107 0.104
	5 ... 100 s	24/100 ... 127 24/200 ... 240	24 24	► ►	**3RP15 13-1AQ30** **3RP15 13-1AP30**		1 1	1 unit 1 unit	101 101	0.107 0.108
3RP15 25 timing relays, ON-delay, 15 time setting ranges										
 3RP15 25-1A...										
with LED and										
1 CO contact	0.05 ... 1 s 0.15 ... 3 s	24/100 ... 127 24/200 ... 240	24 24	► ►	**3RP15 25-1AQ30** **3RP15 25-1AP30**		1 1	1 unit 1 unit	101 101	0.109 0.104
2 CO contacts	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 ∞[2]	42 ... 48/60 24/100 ... 127 24/200 ... 240[6] 24 ... 240	42 ... 48/60[6] 24 24 24 ... 240[3]	A ► ► ►	**3RP15 25-1BR30** **3RP15 25-1BQ30** **3RP15 25-1BP30** **3RP15 25-1BW30**		1 1 1 1	1 unit 1 unit 1 unit 1 unit	101 101 101 101	0.152 0.152 0.155 0.159
3RP15 27 timing relays, ON-delay, two-wire design, 4 time setting ranges										
 3RP15 27-1E...										
1 NO contact (semiconductor)	0.05 ... 1 s 0.2 ... 4 s 1.5 ... 30 s 12 ... 240 s	24 ... 66 90 ... 240	24...66[6] 90...240[3]	A ►	**3RP15 27-1EC30** **3RP15 27-1EM30**		1 1	1 unit 1 unit	101 101	0.099 0.100

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

2) 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.

3) Operating range 0.7 to 1.1 x U_s.

4) Positively driven: NO and NC are never closed simultaneously; contact gap ≥ 0.5 mm is ensured, minimum make-break capacity 12 V, 3 mA.

5) The changeover contacts are actuated simultaneously, as a result of which only 8 functions are selectable (no wye-delta, no instantaneous contact).

6) Operating range 0.8 to 1.1 x U_s.

*** You can order this quantity or a multiple thereof.**

3RP15 timing relays in industrial enclosure, 22.5 mm

Solid-state timing relays for general use in control systems and mechanical engineering with:

- 1 changeover contact or 2 changeover contacts
- Single or selectable time setting ranges
- Switch position indication by LED
- Voltage indication by LED

Version	Time setting range *t* adjustable by rotary switch to	Rated control supply voltage U_s AC 50/60 Hz V	Rated control supply voltage U_s DC V	DT	Spring-loaded terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3RP15 05 timing relays, multifunction, 15 time setting ranges										
The functions can be adjusted by means of rotary switches. Insert labels can be used to adjust different functions of the 3RP15 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.[1]										
with LED and										
1 CO contact, 8 functions	0.05 ... 1 s	24/100 ... 127	24	C	**3RP15 05-2AQ30**		1	1 unit	101	0.125
	0.15 ... 3 s	24/200 ... 240	24	A	**3RP15 05-2AP30**		1	1 unit	101	0.126
	0.5 ... 10 s	24 ... 240[3]	24 ... 240[3]	A	**3RP15 05-2AW30**		1	1 unit	101	0.132
2 CO contacts, 16 functions	1.5 ... 30 s 0.05 ... 1 min 5 ... 100 s 0.15 ... 3 min	24/100 ... 127	24	A	**3RP15 05-2BQ30**		1	1 unit	101	0.142
		24/200 ... 240	24	A	**3RP15 05-2BP30**		1	1 unit	101	0.137
		24 ... 240[3]	24 ... 240[3]	A	**3RP15 05-2BW30**		1	1 unit	101	0.143
2 CO contacts, positively driven and hard gold-plated. 8 functions[4][5]	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 ∞[2]	24 ... 240	24 ... 240	A	**3RP15 05-2RW30**		1	1 unit	101	0.143
3RP15 1. timing relays, ON-delay, 1 time setting range										
with LED and 1 CO contact	0.5 ... 10 s	24/100 ... 127	24	C	**3RP15 11-2AQ30**		1	1 unit	101	0.092
		24/200 ... 240	24	A	**3RP15 11-2AP30**		1	1 unit	101	0.092
	1.5 ... 30 s	24/100 ... 127	24	C	**3RP15 12-2AQ30**		1	1 unit	101	0.092
		24/200 ... 240	24	A	**3RP15 12-2AP30**		1	1 unit	101	0.097
	5 ... 100 s	24/100 ... 127	24	C	**3RP15 13-2AQ30**		1	1 unit	101	0.094
		24/200 ... 240	24	C	**3RP15 13-2AP30**		1	1 unit	101	0.094
3RP15 25 timing relays, ON-delay, 15 time setting ranges										
with LED and										
1 CO contact	0.05 ... 1 s	24/100 ... 127	24	C	**3RP15 25-2AQ30**		1	1 unit	101	0.095
	0.15 ... 3 s	24/200 ... 240	24	A	**3RP15 25-2AP30**		1	1 unit	101	0.093
2 CO contacts	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 ∞[2]	24/100 ... 127	24	C	**3RP15 25-2BQ30**		1	1 unit	101	0.128
		24/200 ... 240	24	A	**3RP15 25-2BP30**		1	1 unit	101	0.127
		24 ... 240[6]	24 ... 240[3]	A	**3RP15 25-2BW30**		1	1 unit	101	0.134
3RP15 27 timing relays, ON-delay, two-wire design, 4 time setting ranges										
1 NO contact (semiconductor)	0.05 ... 1 s 0.2 ... 4 s 1.5 ... 30 s 12 ... 240 s	24 ... 66	24...66[6]	C	**3RP15 27-2EC30**		1	1 unit	101	0.090
		90 ... 240	90...240[3]	C	**3RP15 27-2EM30**		1	1 unit	101	0.090

[1] For functions, see 3RP19 01-0. label set.

[2] 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.

[3] Operating range 0.7 to 1.1 x U_s.

[4] Positively driven: NO and NC are never closed simultaneously; contact gap ≥ 0.5 mm is ensured, minimum make-break capacity 12 V, 3 mA.

[5] The changeover contacts are actuated simultaneously, as a result of which only 8 functions are selectable (no wye-delta, no instantaneous contact).

[6] Operating range 0.8 to 1.1 x U_s.

*** You can order this quantity or a multiple thereof.**

3RP15 timing relays in industrial enclosure, 22.5 mm

Solid-state timing relays for general use in control systems and mechanical engineering with

- 1 changeover contact or 2 changeover contacts
- Single or selectable time setting ranges
- Switch position indication by LED
- Voltage indication by LED

Version	Time setting range *t* adjustable by rotary switch to	Rated control supply voltage U_s AC 50/60 Hz V	Rated control supply voltage U_s DC V	DT	Screw terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3RP15 3. timing relays, OFF-delay, with auxiliary voltage, 1 time setting range										
 3RP15 3.-1A...										
with LED and 1 CO contact The same potential must be applied to terminals A and B	0.5 ... 10 s	24/100 ... 127	24	A	**3RP15 31-1AQ30**		1	1 unit	101	0.140
		24/200 ... 240	24	▶	**3RP15 31-1AP30**		1	1 unit	101	0.140
	1.5 ... 30 s	24/100 ... 127	24	A	**3RP15 32-1AQ30**		1	1 unit	101	0.138
		24/200 ... 240	24	▶	**3RP15 32-1AP30**		1	1 unit	101	0.139
	5 ... 100 s	24/100 ... 127	24	A	**3RP15 33-1AQ30**		1	1 unit	101	0.139
		24/200 ... 240	24	▶	**3RP15 33-1AP30**		1	1 unit	101	0.140
3RP15 40 timing relays, OFF-delay, without auxiliary voltage, 7 time setting ranges[1]										
 3RP15 40-1A...										
with LED and 1 CO contact	0.05 ... 1 s 0.15 ... 3 s 0.3 ... 6 s 0.5 ... 10 s 1.5 ... 30 s 3 ... 60 s 5 ... 100 s	24	24[2]	▶	**3RP15 40-1AB30**		1	1 unit	101	0.116
		100 ... 127	100...127[3]	▶	**3RP15 40-1AJ30**		1	1 unit	101	0.119
		200 ... 240	200...240[3]	▶	**3RP15 40-1AN30**		1	1 unit	101	0.120
2 CO contacts		24	24[2]	▶	**3RP15 40-1BB30**		1	1 unit	101	0.159
		100 ... 127	100...127[3]	A	**3RP15 40-1BJ30**		1	1 unit	101	0.161
		200 ... 240	200...240[3]	▶	**3RP15 40-1BN30**		1	1 unit	101	0.161
3RP15 55 timing relays, clock-pulse relay, 15 time setting ranges										
 3RP15 55-1A...										
with LED and 1 CO contact	0.05 ... 1 s 0.15 ... 3 s	42 ... 48/60	42...48/60[5]	A	**3RP15 55-1AR30**		1	1 unit	101	0.111
	0.5 ... 10 s 1.5 ... 30 s	24/100 ... 127	24	▶	**3RP15 55-1AQ30**		1	1 unit	101	0.111
		24/200 ... 240	24	▶	**3RP15 55-1AP30**		1	1 unit	101	0.111
	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 ∞[4]									
3RP15 60 timing relays, wye-delta function, dead interval 50 ms and overtravel time, 1 time setting range										
 3RP15 60-1S...										
3 NO contacts[3] (common contact root terminal 17)	wye-delta 1 ... 20 s, overtravel time (idling) 30 ... 600 s	24/100 ... 127	24	A	**3RP15 60-1SQ30**		1	1 unit	101	0.172
		24/200 ... 240	24	▶	**3RP15 60-1SP30**		1	1 unit	101	0.175
3RP15 7. timing relays, wye-delta function[6], dead interval 50 ms, 1 time setting range										
 3RP15 7.-1N...										
1 NO contact instantaneous and 1 NO contact delayed (common contact root terminal 17)	1 ... 20 s	24/100 ... 127	24	▶	**3RP15 74-1NQ30**		1	1 unit	101	0.113
		24/200 ... 240	24	▶	**3RP15 74-1NP30**		1	1 unit	101	0.113
		200 ... 240/ 380 ...440	--	B	**3RP15 74-1NM20**		1	1 unit	101	0.113
	3 ... 60 s	24/100 ... 127	24	▶	**3RP15 76-1NQ30**		1	1 unit	101	0.112
		24/200 ... 240	24	▶	**3RP15 76-1NP30**		1	1 unit	101	0.113
		200 ... 240/ 380 ...440	--	B	**3RP15 76-1NM20**		1	1 unit	101	0.113

1) Setting of output contacts in as-supplied state not defined (bistable relay). Application of the control voltage once results in contact changeover to the correct setting.

2) Operating range 0.7 to 1.25 x U_s.

3) Operating range 0.85 to 1.1 x U_s.

4) With switch position ∞, no timing. For test purposes (ON/OFF function) on site. For dead time "infinite", the relay is always off. For pulse time "infinite", the relay is always on.

5) Operating range 0.8 to 1.1 x U_s.

6) For example circuit, see LV 1 T "Technical Information", Circuit Diagrams.

*** You can order this quantity or a multiple thereof.**

3RP15 timing relays in industrial enclosure, 22.5 mm

Solid-state timing relays for general use in control systems and mechanical engineering with

- 1 changeover contact or 2 changeover contacts
- Single or selectable time setting ranges
- Switch position indication by LED
- Voltage indication by LED

Version	Time setting range *t* adjustable by rotary switch to	Rated control supply voltage U_S AC 50/60 Hz V	Rated control supply voltage U_S DC V	DT	Spring-loaded terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3RP15 3. timing relays, OFF-delay, with auxiliary voltage, 1 time setting range										
with LED and 1 CO contact The same potential must be applied to terminals A and B	0.5 ... 10 s	24/100 ... 127	24	C	**3RP15 31-2AQ30**		1	1 unit	101	0.124
		24/200 ... 240	24	A	**3RP15 31-2AP30**		1	1 unit	101	0.122
	1.5 ... 30 s	24/100 ... 127	24	C	**3RP15 32-2AQ30**		1	1 unit	101	0.125
		24/200 ... 240	24	C	**3RP15 32-2AP30**		1	1 unit	101	0.121
	5 ... 100 s	24/100 ... 127	24	C	**3RP15 33-2AQ30**		1	1 unit	101	0.123
		24/200 ... 240	24	C	**3RP15 33-2AP30**		1	1 unit	101	0.125
3RP15 40 timing relays, OFF-delay, without auxiliary voltage, 7 time setting ranges[1]										
with LED and										
1 CO contact	0.05 ... 1 s 0.15 ... 3 s 0.3 ... 6 s	24 100 ... 127 200 ... 240	24[2] 100...127[3] 200...240[3]	A A A	**3RP15 40-2AB30** **3RP15 40-2AJ30** **3RP15 40-2AN30**		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.105 0.108 0.110
2 CO contacts	0.5 ... 10 s 1.5 ... 30 s 3 ... 60 s 5 ... 100 s	24 100 ... 127 200 ... 240	24[2] 100...127[3] 200...240[3]	A C C	**3RP15 40-2BB30** **3RP15 40-2BJ30** **3RP15 40-2BN30**		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.136 0.136 0.136
3RP15 55 timing relays, clock-pulse relay, 15 time setting ranges										
with LED and 1 changeover contact	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 5 ... 100 h ∞[4]	42 ... 48/60 24/100 ... 127 24/200 ... 240	42...48/60[5] 24 24	C C A	**3RP15 55-2AR30** **3RP15 55-2AQ30** **3RP15 55-2AP30**		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.102 0.100 0.104
3RP15 60 timing relays, wye-delta function, dead interval 50 ms and overtravel time, 1 time setting range										
3 NO contacts[3] (common contact root terminal 17)	wye-delta 1 ... 20 s, overtravel time (idling) 30 ... 600 s	24/200 ... 240	24	C	**3RP15 60-2SP30**		1	1 unit	101	0.152
3RP15 7. timing relays, wye-delta function[6], dead interval 50 ms, 1 time setting range										
1 NO contact instantaneous and 1 NO contact delayed (common contact root terminal 17)	1 ... 20 s	24/200 ... 240 200 ... 240/ 380 ...440	24	A B	**3RP15 74-2NP30** **3RP15 74-2NM20**		1 1	1 unit 1 unit	101 101	0.104 0.100
	3 ... 60 s	24/100 ... 127 24/200 ... 240 200 ... 240/ 380 ... 440	24 24	C A B	**3RP15 76-2NQ30** **3RP15 76-2NP30** **3RP15 76-2NM20**		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.102 0.104 0.100

1) Setting of output contacts in as-supplied state not defined (bistable relay). Application of the control voltage once results in contact changeover to the correct setting.

2) Operating range 0.7 to 1.25 x U_S.

3) Operating range 0.85 to 1.1 x U_S.

4) With switch position ∞, no timing. For test purposes (ON/OFF function) on site. For dead time "infinite", the relay is always off. For pulse time "infinite", the relay is always on.

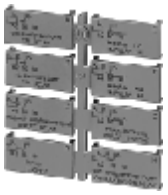
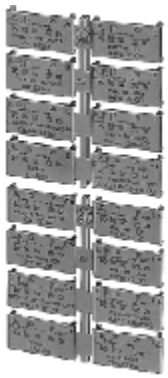
5) Operating range 0.8 to 1.1 x U_S.

6) For example circuit, see LV 1 T "Technical Information", Circuit Diagrams.

*** You can order this quantity or a multiple thereof.**

3RP15 timing relays in industrial enclosure, 22.5 mm

Accessories

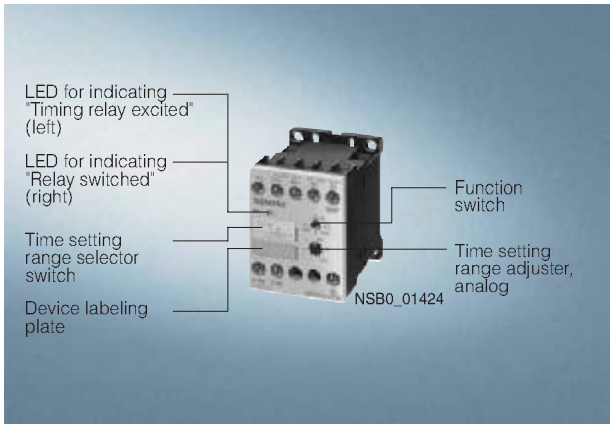
Version	Function	Identification letter	Application	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Label sets										
Accessory for 3RP15 05 (not included in the scope of supply). The label set offers the possibility of labeling timing relays with the set function in English and German.										
 3RP19 01-0A										
1 label set (1 unit) with 8 functions	With ON-delay	A	for devices with 1 CO contact and 3RP15 05-.RW30	▶	**3RP19 01-0A**		1	5 units	101	0.003
	OFF-delay with auxiliary voltage	B								
	ON-delay and OFF-delay with auxiliary voltage	C								
	Flashing, starting with interval	D								
	Passing make contact	E								
	Passing break contact with auxiliary voltage	F								
	Pulse-forming with auxiliary voltage	G								
	Additive ON-delay with auxiliary voltage	H								
 3RP19 01-0B										
1 label set (1 unit) with 16 functions	ON-delay	A	for devices with 2 CO contacts	▶	**3RP19 01-0B**		1	5 units	101	0.006
	OFF-delay with auxiliary voltage	B								
	ON-delay and OFF-delay with auxiliary voltage	C								
	Flashing, starting with interval	D								
	Passing make contact	E								
	Passing break contact with auxiliary voltage	F								
	Pulse-forming with auxiliary voltage	G								
	Additive ON-delay with auxiliary voltage and instantaneous contact	H•								
	ON-delay and instantaneous contact	A•								
	OFF-delay with auxiliary voltage and instantaneous contact	B•								
	ON-delay and OFF-delay with auxiliary voltage and instantaneous contact	C•								
	Flashing, starting with interval, and instantaneous contact	D•								
	Passing make contact and instantaneous contact	E•								
	Passing break contact with auxiliary voltage and instantaneous contact	F•								
	Pulse-forming with auxiliary voltage and instantaneous contact	G•								
	Wye-delta function	Y Δ								
Blank labels										
	Blank labels, 20 mm x 7 mm, pastel turquoise[1]			C	**3RT19 00-1SB20**		100	340 units	101	0.220
Covering caps and push-in lugs										
 3RP19 03	**Push-in lugs** for screw mounting, 2 units are required for each device		for devices with 1 or 2 CO contacts	▶	**3RP19 03**		1	10 units	101	0.002
 3RP19 02	**Sealable covers** for securing against unauthorized adjustment of setting knobs		for devices with 1 or 2 CO contacts	▶	**3RP19 02**		1	5 units	101	0.004

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

7

* You can order this quantity or a multiple thereof.

Overview



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 switchgear and controlgear"
- EN 61140 "Safe electrical isolation"

Accessories

Label set for marking the multifunction relay

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.

3RP20 timing relays, 45 mm

Selection and ordering data

Multifunction

The functions can be adjusted by means of rotary switches[1]. 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	Rated control supply voltage U_s AC 50/60 Hz V	Rated control supply voltage U_s DC V	DT	Screw terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3RP20 05 timing relays, multifunction, 15 time setting ranges											
 3RP20 05-1BW30	with LED and 1 CO contact, 8 functions[1)2)]	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 5 ... 100 h ∞[3)]	24/100 ... 127 24/200 ... 240	24 24	► ►	**3RP20 05-1AQ30** **3RP20 05-1AP30**		1 1	1 unit 1 unit	101 101	0.118 0.119
	with LED and 2 CO contacts, 16 functions[1)]		24 ... 240[4)]	24 ... 240[5)]	D	**3RP20 05-1BW30**		1	1 unit	101	0.128
3RP20 25. timing relays, ON-delay, 15 time setting ranges											
 3RP20 25-1AP30	with LED and 1 CO contact[2)]	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 5 ... 100 h ∞[3)]	24/100 ... 127 24/200 ... 240	24 24	► ►	**3RP20 25-1AQ30** **3RP20 25-1AP30**		1 1	1 unit 1 unit	101 101	0.106 0.106

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 ... 1.1 x U_s.

5) Operating range 0.7 ... 1.1 x U_s.

7

* You can order this quantity or a multiple thereof.

Selection and ordering data

Multifunction

The functions can be adjusted by means of rotary switches[1]. 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 AC 50/60 Hz V	Rated control supply voltage U_s DC V	DT	Spring-loaded terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3RP20 05 timing relays, multifunction, 15 time setting ranges										
with LED and 1 CO contact, 8 functions[1)2)]	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 5 ... 100 h ∞[3)]	24/ 100 ... 127 24/ 200 ... 240	24 24	D ▶	**3RP20 05-2AQ30** **3RP20 05-2AP30**		1 1	1 unit 1 unit	101 101	0.120 0.121
with LED and 2 CO contacts, 16 functions[1)]		24 ... 240[4)]	24 ... 240[5)]	A	**3RP20 05-2BW30**		1	1 unit	101	0.131
3RP20 25. timing relays, ON-delay, 15 time setting ranges										
with LED and 1 CO contact[2)]	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 5 ... 100 h ∞[3)]	24/ 100 ... 127 24/ 200 ... 240	24 24	D A	**3RP20 25-2AQ30** **3RP20 25-2AP30**		1 1	1 unit 1 unit	101 101	0.110 0.108

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.

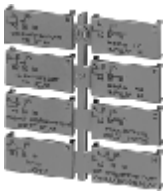
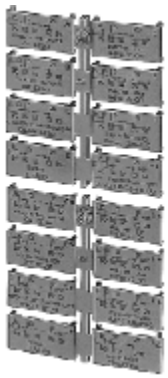
4) Operating range 0.8 to 1.1 x U_s.

5) Operating range 0.7 to 1.1 x U_s.

*** You can order this quantity or a multiple thereof.**

3RP20 timing relays, 45 mm

Accessories

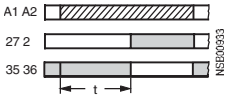
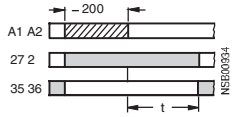
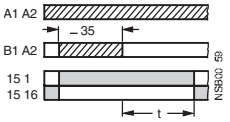
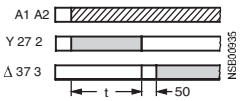
	Version	Function	Identification letter	Application	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Label sets											
	Accessory for 3RP20 05 (not included in the scope of supply). The label set offers the possibility of labeling timing relays with the set function in English and German.										
 3RP19 01-0A	1 label set (1 unit) with 8 functions	With ON-delay	A	for devices with 1 CO contact and 3RP15 05-.RW30	▶	**3RP19 01-0A**		1	5 units	101	0.003
		OFF-delay with auxiliary voltage	B								
		ON-delay and OFF-delay with auxiliary voltage	C								
		Flashing, starting with interval	D								
		Passing make contact	E								
		Passing break contact with auxiliary voltage	F								
		Pulse-forming with auxiliary voltage	G								
		Additive ON-delay with auxiliary voltage	H								
 3RP19 01-0B	1 label set (1 unit) with 16 functions	With ON-delay	A	for devices with 2 CO contacts	▶	**3RP19 01-0B**		1	5 units	101	0.006
		OFF-delay with auxiliary voltage	B								
		ON-delay and OFF-delay with auxiliary voltage	C								
		Flashing, starting with interval	D								
		Passing make contact	E								
		Passing break contact with auxiliary voltage	F								
		Pulse-forming with auxiliary voltage	G								
		Additive ON-delay with auxiliary voltage and instantaneous contact	H•								
		ON-delay and instantaneous contact	A•								
		OFF-delay with auxiliary voltage and instantaneous contact	B•								
		ON-delay and OFF-delay with auxiliary voltage and instantaneous contact	C•								
		Flashing, starting with interval, and instantaneous contact	D•								
		Passing make contact and instantaneous contact	E•								
		Passing break contact with auxiliary voltage and instantaneous contact	F•								
		Pulse-forming with auxiliary voltage and instantaneous contact	G•								
		Wye-delta function	Y Δ								
Blank labels											
	Blank labels, 20 mm x 7 mm, pastel turquoise[1]				C	**3RT19 00-1SB20**		100	340 units	101	0.220

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

7

* You can order this quantity or a multiple thereof.

Selection and ordering data

For contactors	Auxiliary contacts Function ▨ Timing relay energized ■ Timing relay closed □ Contact open	Rated control supply voltage U_s	Time setting range t	DT	Screw terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		V	s							kg
For size S00[1], with screw terminal										
	Terminal designations according to EN 46199 Part 5									
	• ON-delay (varistor integrated)									
3RT10 1, 3RH11	1 NO + 1 NC	24 AC/DC	0.05 ... 1	▶	**3RT19 16-2EJ11**		1	1 unit	101	0.085
			0.5 ... 10	▶	**3RT19 16-2EJ21**		1	1 unit	101	0.084
			5 ... 100	B	**3RT19 16-2EJ31**		1	1 unit	101	0.086
		100 ... 127 AC	0.05 ... 1	C	**3RT19 16-2EC11**		1	1 unit	101	0.087
			0.5 ... 10	▶	**3RT19 16-2EC21**		1	1 unit	101	0.087
			5 ... 100	▶	**3RT19 16-2EC31**		1	1 unit	101	0.086
3RT19 16-2...		200 ... 240 AC	0.05 ... 1	D	**3RT19 16-2ED11**		1	1 unit	101	0.088
			0.5 ... 10	▶	**3RT19 16-2ED21**		1	1 unit	101	0.089
			5 ... 100	▶	**3RT19 16-2ED31**		1	1 unit	101	0.090
	• OFF-delay without auxiliary voltage (varistor integrated)[2]									
	1 NO + 1 NC	24 AC/DC	0.05 ... 1	▶	**3RT19 16-2FJ11**		1	1 unit	101	0.087
			0.5 ... 10	▶	**3RT19 16-2FJ21**		1	1 unit	101	0.088
			5 ... 100	▶	**3RT19 16-2FJ31**		1	1 unit	101	0.089
		100 ... 127 AC	0.05 ... 1	D	**3RT19 16-2FK11**		1	1 unit	101	0.086
			0.5 ... 10	▶	**3RT19 16-2FK21**		1	1 unit	101	0.087
			5 ... 100	B	**3RT19 16-2FK31**		1	1 unit	101	0.088
		200 ... 240 AC	0.05 ... 1	D	**3RT19 16-2FL11**		1	1 unit	101	0.089
			0.5 ... 10	▶	**3RT19 16-2FL21**		1	1 unit	101	0.089
			5 ... 100	▶	**3RT19 16-2FL31**		1	1 unit	101	0.089
	• OFF-delay with auxiliary voltage									
	1 CO contact	24 AC/DC	0.5 ... 10	B	**3RT19 16-2LJ21**		1	1 unit	101	0.083
		100 ... 127 AC		B	**3RT19 16-2LC21**		1	1 unit	101	0.085
		200 ... 240 AC		B	**3RT19 16-2LD21**		1	1 unit	101	0.085
	• Wye-delta function (varistor integrated)									
	1 NO, delayed + 1 NO, instantaneous, dead time 50 ms	24 AC/DC 100 ... 127 AC 200 ... 240 AC	1.5 ... 30	▶ D ▶	**3RT19 16-2GJ51** **3RT19 16-2GC51** **3RT19 16-2GD51**		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.086 0.087 0.090
										

1) The terminals for the rated control supply voltage are connected to the contactor beneath by the integrated spring-type contacts of the solid-state time-delay auxiliary switch block when mounting.

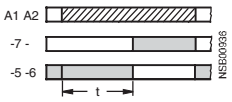
2) Setting of output contacts in as-supplied state not defined (bistable relay).
Application of the control voltage once results in contact changeover to the correct setting.

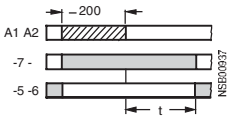
* You can order this quantity or a multiple thereof.

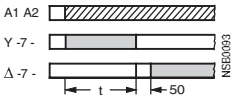
3RT19 timing relays for mounting onto contactors

3RT19 26-2...

For contactors Type	Auxiliary contacts Function Timing relay energized Timing relay closed Contact open	Rated control supply voltage U_s V	Time setting range t s	DT	Screw terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
For sizes S0 to S12[2], with screw terminal										
	• ON-delay									
3RT10 2, 3RT10 3, 3RT10 4	1 NO + 1 NC	24 AC/DC	0.05 ... 1	D	**3RT19 26-2EJ11**		1	1 unit	101	0.081
			0.5 ... 10	▶	**3RT19 26-2EJ21**		1	1 unit	101	0.081
			5 ... 100	A	**3RT19 26-2EJ31**		1	1 unit	101	0.082
		100 ... 127 AC	0.05 ... 1	C	**3RT19 26-2EC11**		1	1 unit	101	0.083
			0.5 ... 10	▶	**3RT19 26-2EC21**		1	1 unit	101	0.083
			5 ... 100	D	**3RT19 26-2EC31**		1	1 unit	101	0.083
		200 ... 240 AC	0.05 ... 1	D	**3RT19 26-2ED11**		1	1 unit	101	0.085
			0.5 ... 10	▶	**3RT19 26-2ED21**		1	1 unit	101	0.085
			5 ... 100	B	**3RT19 26-2ED31**		1	1 unit	101	0.085
	• OFF-delay without auxiliary voltage[1]									
	1 NO + 1 NC	24 AC/DC	0.05 ... 1	▶	**3RT19 26-2FJ11**		1	1 unit	101	0.085
			0.5 ... 10	▶	**3RT19 26-2FJ21**		1	1 unit	101	0.084
			5 ... 100	▶	**3RT19 26-2FJ31**		1	1 unit	101	0.085
		100 ... 127 AC	0.05 ... 1	D	**3RT19 26-2FK11**		1	1 unit	101	0.087
			0.5 ... 10	▶	**3RT19 26-2FK21**		1	1 unit	101	0.086
			5 ... 100	C	**3RT19 26-2FK31**		1	1 unit	101	0.087
		200 ... 240 AC	0.05 ... 1	D	**3RT19 26-2FL11**		1	1 unit	101	0.086
			0.5 ... 10	A	**3RT19 26-2FL21**		1	1 unit	101	0.084
			5 ... 100	A	**3RT19 26-2FL31**		1	1 unit	101	0.086
	• Wye-delta function									
	1 NO, delayed + 1 NO, instantaneous, dead time 50 ms	24 AC/DC 100 ... 127 AC 200 ... 240 AC	1.5 ... 30	▶	**3RT19 26-2GJ51** **3RT19 26-2GC51** **3RT19 26-2GD51**		1	1 unit	101	0.084 0.085 0.088





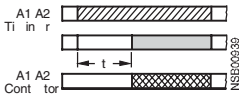
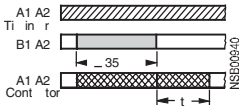
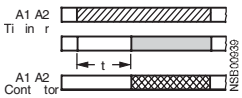
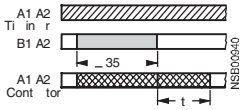


1) Setting of output contacts in as-supplied state not defined (bistable relay).
Application of the control voltage once results in contact changeover to the correct setting.

2) The terminals A1 and A2 for the rated control supply voltage of the solid-state time-delay auxiliary switch block must be connected to the corresponding contactor by connecting cables.

* You can order this quantity or a multiple thereof.

3RT19 timing relays for mounting onto contactors

	For contactors	Function Timing relay energized Contact closed Contact open Contactor energized	Rated control supply voltage U_s	Time setting range t	DT	Screw terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Type		V	s							kg
For size S00, with semiconductor output and screw terminal											
		For mounting onto the front of contactors The electrical connection between the time-relay block and the contactor beneath is established automatically when it is snapped on.									
 3RT19 16-2C...	3RT1. 1, 3RH11	• ON-delay, two-wire version (varistor integrated) 	24 ... 66 AC/DC	0.05 ... 1	B	**3RT19 16-2CG11**		1 1 unit	101	0.051
				0.5 ... 10	▶	**3RT19 16-2CG21**		1 1 unit	101	0.051
				5 ... 100	B	**3RT19 16-2CG31**		1 1 unit	101	0.054
			90 ... 240 AC/DC	0.05 ... 1	D	**3RT19 16-2CH11**		1 1 unit	101	0.052
				0.5 ... 10	▶	**3RT19 16-2CH21**		1 1 unit	101	0.052
				5 ... 100	▶	**3RT19 16-2CH31**		1 1 unit	101	0.051
 3RT19 16-2D...		• OFF-delay with auxiliary voltage (varistor integrated) 	24 ... 66 AC/DC	0.05 ... 1	C	**3RT19 16-2DG11**		1 1 unit	101	0.057
				0.5 ... 10	B	**3RT19 16-2DG21**		1 1 unit	101	0.057
				5 ... 100	B	**3RT19 16-2DG31**		1 1 unit	101	0.057
			90 ... 240 AC/DC	0.05 ... 1	D	**3RT19 16-2DH11**		1 1 unit	101	0.053
				0.5 ... 10	▶	**3RT19 16-2DH21**		1 1 unit	101	0.060
				5 ... 100	B	**3RT19 16-2DH31**		1 1 unit	101	0.058
For sizes S0 to S3, with semiconductor output and screw terminal											
		For mounting onto coil terminals on top of the contactors The electrical connection between the relay block and the corresponding contactor is established by screwing the two connecting pins of the time-relay block to coil terminals A1/A2 on top of the contactor.									
 3RT19 26-2C...	3RT10 2, 3RT10 3, 3RT10 4[1]	• ON-delay, two-wire version (varistor integrated) 	24 ... 66 AC/DC	0.05 ... 1	D	**3RT19 26-2CG11**		1 1 unit	101	0.048
				0.5 ... 10	B	**3RT19 26-2CG21**		1 1 unit	101	0.049
				5 ... 100	D	**3RT19 26-2CG31**		1 1 unit	101	0.048
			90 ... 240 AC/DC	0.05 ... 1	▶	**3RT19 26-2CH11**		1 1 unit	101	0.048
				0.5 ... 10	▶	**3RT19 26-2CH21**		1 1 unit	101	0.047
				5 ... 100	▶	**3RT19 26-2CH31**		1 1 unit	101	0.048
 3RT19 26-2D...		• OFF-delay with auxiliary voltage (varistor integrated) 	24 ... 66 AC/DC	0.05 ... 1	D	**3RT19 26-2DG11**		1 1 unit	101	0.050
				0.5 ... 10	D	**3RT19 26-2DG21**		1 1 unit	101	0.051
				5 ... 100	D	**3RT19 26-2DG31**		1 1 unit	101	0.051
			90 ... 240 AC/DC	0.05 ... 1	C	**3RT19 26-2DH11**		1 1 unit	101	0.050
				0.5 ... 10	D	**3RT19 26-2DH21**		1 1 unit	101	0.050
				5 ... 100	C	**3RT19 26-2DH31**		1 1 unit	101	0.050

[1] Not for 3RT10 4 contactor with 24 to 42 V rated control supply voltage.

7

* You can order this quantity or a multiple thereof.