Electronic timers CT range

NEW!

NEW!

2CDC 255 056 F0006

ABB

Electronic timers CT range

CT-D range ——— CT-E range

NEW: 2 c/o contacts

For many years, ABB's CT range of electronic timers has been used in applications worldwide and has proven its excellent functionality in daily use, even under harshest environmental conditions. Three ranges of electronic timers provide timing functions for all applications: The highly sophisticated CT-S range is ideally suitable for universal use. The CT-D range with modular design in only 17.5 mm wide enclosures. And the CT-E range offers an excellent price/performance ratio and is an ideal solution for serial applications. Make use of ABB's excellent competence in industry electronics.

1SVC 110 000 F0507

1SVC 110 000 F0506

Remote potentiometer connection

The CT-S range offers the possibility of connecting a remote potentiometer for the fine adjustment of the time delay. When an external potentiometer is connected, the internal, frontface potentiometer is disabled.

Connecting screws in M3 (Pozidrive 1)

Easy tightening and release of the connecting screws, with pozidrive, pan- or cross-head screwdriver.
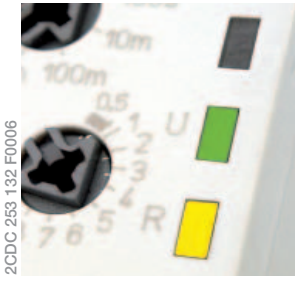
CT-S range

NEW!

2CDC 255 056 F0006

2CDC 253 064 F0006

2CDC 253 065 F0006

Integrated marker labels

Integrated markers allow the product to be marked quickly and simply. No additional marking labels are required (CT-S range).

Sealable transparent cover

Protection against unauthorized changes of time and threshold values. Available as an accessory.

LEDs for status indication

All actual operational states are displayed by front-face LEDs, thus simplifying commissioning and troubleshooting.

2CDC 253 132 F0006

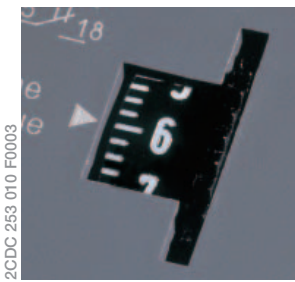## Time range preselection and fine adjustment

Direct assignment of the pre-selected time range to the fine adjustment potentiometer scale by multicolor scales.

2CDC 253 062 F0006

Direct reading scales

Direct setting of the time delay without any additional calculation provides accurate time delay adjustment.

2CDC 253 010 F0003

Safety

The "real distance" is hidden. Our products' air and creepage distances exceed international standards, and substantially increase the safety of these products.
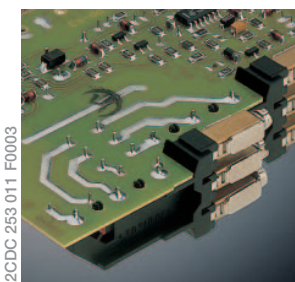
2CDC 253 011 F0003

3

Electronic timers CT-D range: The modular timers

NEW: 2 c/o contacts

**T**he CT-D range represents a link between the industry and the installation types. For highest flexibilty in operation, 10 single-function as well as 2 multifunction devices with 7 timing functions are available. The devices offer 4 or 7 time ranges from 0.05 seconds up to 100 hours. Their wide input voltage range allows the use in applications world-wide.

Operating controls

① LEDs for status indication

U - green LED:
- ⎯⎯⎯⎯ control supply voltage applied
- ⎍⎍⎍ timing

R - yellow LED:
- ⎯⎯⎯⎯ output relay energized

② Time range adjustment

③ Fine adjustment of the time delay

④ Preselection of the timing function

multifunctional

single-functional

2CDC 256 059 F0006

2CDC 253 022 F0004
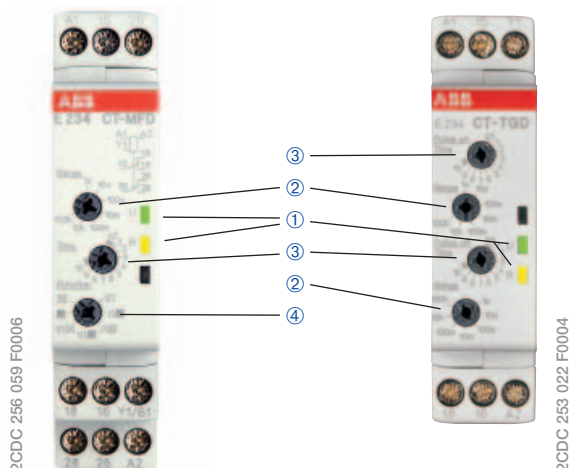
Characteristics of the CT-D range

- Diversity:
  - 2 multifunction timers
  - 10 single-function timers
- Control supply voltages:
  - Wide range: 12-240 V AC/DC
  - Multi range: 24-48 V DC, 24-240 V AC
- 4 time ranges, from 0.05 s – 10 min, or 7 time ranges, from 0.05 s – 100 h
- Width of only 17.5 mm
- Light-grey enclosure in RAL 7035
- Devices with:
  - 1 c/o contact (250 V / 6 A) or 2 c/o contacts (250 V / 5 A)
  - Control input: voltage-related triggering, polarized, capable of switching a parallel load
- Approvals / Marks[1]

1) existing for devices with 1 c/o contact, pending for devices with 2 c/o contacts

1 or 2 c/o contacts
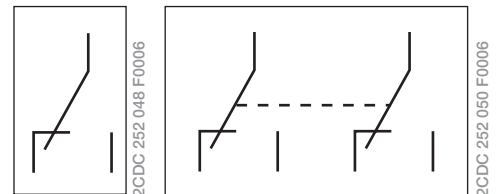
Control input: Voltage-related triggering,
polarized, capable of switching a parallel load.
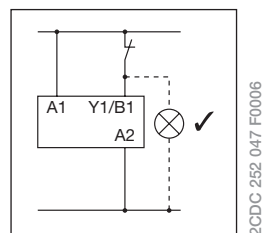
Switching currents
The CT-D range timers allow an output load of up to 6 A on devices with 1 c/o contact and up to 5 A on devices with 2 c/o contacts.

Width 17.5 mm
With their width of 17.5 mm, the CT-D range timers are ideally suited for installation in distribution panels.
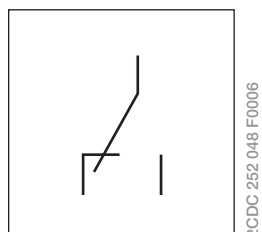
17.5 mm

Direct reading scales
Direct setting of the time delay without any additional calculation provides accurate time delay adjustment.

LEDs for status indication
All actual operational states are displayed by front-face LEDs, thus simplifying commissioning and troubleshooting.

Connecting terminals
Wide terminal spacing allows connection of wires:
– 2 x 1.5 mm² (2 x 16 AWG) with wire end ferrules or
– 2 x 2.5 mm² (2 x 14 AWG) without ferrules.

Electronic timers CT-E range: The economic timers

The CT-E range with its excellent price/performance ratio offers an ideal solution for serial applications. 11 single-function devices with 5 different single time ranges as well as 2 multifunction timers with 6 functions and 8 time ranges offer the highest possible flexibility for almost every application. For high operating cycles, contact-free CT-E timers with solid-state output are available.

Operating controls

① LEDs for status indication

    U – green LED:
    control supply voltage applied
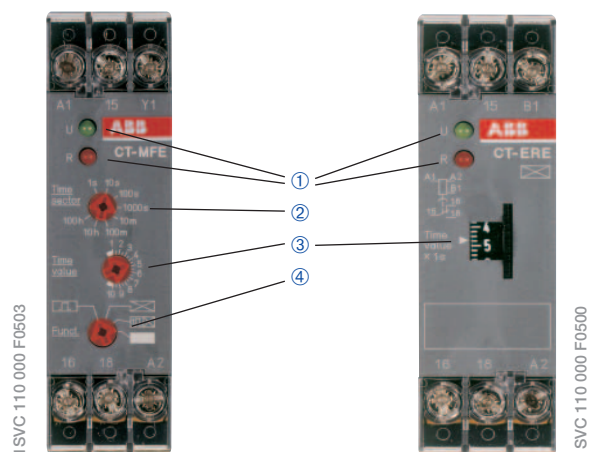
    R – red LED:
    output relay energized

② Time range adjustment

③ Fine adjustment of the time delay

④ Preselection of the timing function

multifunctional　　　　**single-functional**

1SVC 110 000 F0503

1SVC 110 000 F0500

Characteristics of the CT-E range

- Diversity:
    - 2 multifunction timers
    - 11 single-function timers
    - 2 switching relays
- Control supply voltages
    - Dual range: 24 V AC/DC
    - Single range: 110-130 V AC, 220-240 V AC
    - Wide range: 24-240 V AC/DC (CT-MFE)
- Time ranges:
    - 5 single time ranges: 0.05-1 s, 0.1-10 s, 0.3-30 s, 3-300 s, 0.3-30 min
    - 8 time ranges: 0,05 s – 100 h (CT-MFE)
- Devices with:
    - 1 c/o contact (250 V / 4 A) or solid-state output for high switching frequencies (thyristor 0.8 A)
- Wide connecting screws for easy and fast connection
- Switching relay CT-IRE for added switching contacts with either side-by-side or diagonal positioned connection terminals
- Approvals / Marks
  cULus, GL, PG, CB 1), CCC 1), ⊛ / CE, ℃
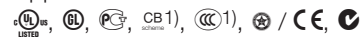
1) not for devices with solid-state output

Connecting screws in M3 (Pozidrive 1)
Easy and fast tightening and release of the connecting screws with pozidrive, pan- or crosshead screwdriver.

1SVC 110 000 F 0506

Direct reading scales
Direct setting of the time delay without any additional calculation provides accurate time delay adjustment.

1SVC 110 000 F0508

LEDs for status indication
All actual operational states are displayed by front-face LEDs, thus simplifying commissioning and troubleshooting.

2CDC 255 011 F0005

2CDC 255 011 F0005

Electronic timers CT-S range: The high-end timers

The CT-S range is ABB's most modern and universal time relay range. This program comprises of 13 single-function devices and 8 multifunction timers with up to 11 functions, offering the highest flexibility in operation. The devices feature 7 or 10 time ranges that are adjustable from 0.05 seconds to 300 hours.

Operating controls

① LEDs for status indication

   U/T – green LED:
   ⌐‾‾‾‾⌐ control supply voltage applied
   ⌐‾⌐‾⌐‾ timing

   R/R1/R2 – yellow LED:
   ⌐‾‾‾‾⌐ 1. / 2. output relay energized

② Time range adjustment

③ Fine adjustment of the time delay

④ Preselection of the timing function

⑤ Set the 2nd c/o contact as an instantaneous contact

multifunctional **single-functional**

2CDC 256 060 F0006

2CDC 256 061 F0006
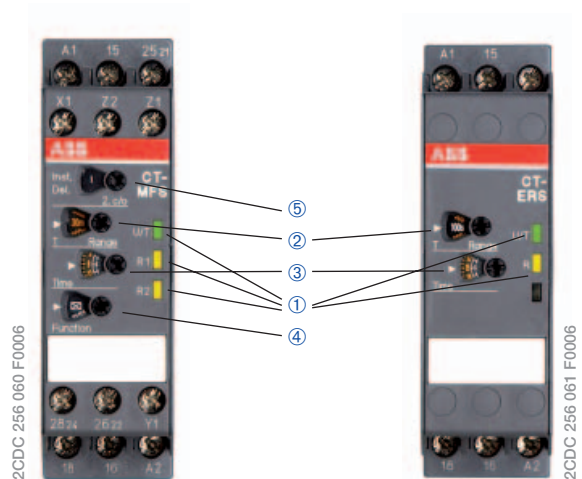
## Characteristics of the CT-S range

- Diversity:
    - 8 multifunction timers
    - 13 single-function timers
    - 8 switching relays
- Control supply voltages:
    - Multi ranges: 24-48 V DC, 24-240 V AC
    - Wide range: 24-240 V AC/DC
    - Single range: 380-440 V AC
- Devices with:
    - 1 or 2 c/o contacts
    - 2nd c/o contact can be selected as instantaneous contact[1]
    - Remote potentiometer connection[1]
    - Control input with volt-free[2] or voltage-related[3] triggering e.g. to start timing, pause timing
- Sealable transparent cover for protection against unauthorized changes of time and threshold values
- Integrated marker label
- Approvals / Marks (depending on device)

2CDC 255 057 F0006

Time range preselection and fine adjustment

Direct assignment of the preselected time range to the fine adjustment potentiometer scale by multicolor scales.

2CDC 253 062 F0006

Indication of operational states

All actual operational states are displayed by front-face LEDs, thus simplifying commissioning and troubleshooting.

2CDC 253 063 F0006
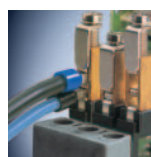
Double-chamber cage connecting terminals

Double-chamber cage connecting terminals provide connection of wires up to 2 x 2.5 mm^2 (2 x 14 AWG), rigid or fine-strand, with or without wire end ferrules. Potential distribution does not require additional terminals.

2CDC 253 010 F0003

Remote potentiometer connection

The CT-S range offers the possibility of connecting a remote potentiometer for the fine adjustment of the time delay. When an external potentiometer is connected, the internal, front-face potentiometer is disabled.

1SVC 110 000 F0507

Control input with volt-free[2] or voltage-related[3] triggering[1]

The new CT-S range offers two types of devices:
one with volt-free and one with voltage-related triggering.
The control inputs of the devices with voltage-related triggering are capable of switching a parallel load and are not polarized. They can be powered either by the control supply voltage applied to A1 or by another voltage out of the rated control supply voltage range.

Volt-free[3]	Voltage-related[4]	

2CDC 252 101 F0006 / 2CDC 252 102 F0006 / 2CDC 252 103 F0006

1) selected devices
2) volt-free = dry/floating
3) voltage-related = wet/non-floating

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CT-S range

NEW!

| Type	Symbol	Function	Output contacts	0.05 s–300 h	0.05–10 min	Control input	Remote potentiometer connection	2. c/o contact selectable as instantaneous contact	Rated control supply voltage	Order code
CT-MFS.21	Multifunctional timer	ON-delay / OFF-delay with auxiliary voltage / Impulse-ON, Impulse-OFF with auxiliary voltage / Symmetrical ON- and OFF-delay	2 c/o	✓		□/□	✓	✓	24-240 V AC/DC	1SVR 630 010 R0200
CT-MBS.22	Multifunctional timer	Flasher starting with ON or OFF / Star-delta change-over with impulse / Pulse former / ON/OFF-function	2 c/o	✓		□	✓	✓	24-48 V DC / 24-240 V AC	1SVR 630 010 R3200
CT-MVS.21	Multifunctional timer	ON-delay / OFF-delay with auxiliary voltage / Impulse-ON, Impulse-OFF with auxiliary voltage / Symmetrical ON- and OFF-delay / Flasher starting with ON or OFF / Star-delta change-over with impulse[1] / Pulse former / Accumulative ON-delay / ON/OFF-function	2 c/o	✓		■	✓	✓	24-240 V AC/DC	1SVR 630 020 R0200
CT-MVS.12	Multifunctional timer		1 c/o	✓		■			24-48 V DC / 24-240 V AC	1SVR 630 020 R3100
CT-MVS.22	Multifunctional timer		2 c/o	✓		■			24-48 V DC / 24-240 V AC	1SVR 630 020 R3300
CT-MVS.23	Multifunctional timer		2 c/o	✓		■			380-440 V AC	1SVR 630 021 R2300
CT-MXS.12	Multifunctional timer with 2 time circuits	Asymmetrical ON- and OFF-delay / Impulse-ON/OFF / Pulse generator starting with ON or OFF / Single pulse generator / ON/OFF-function	2 c/o	2 x		■	2 x		24-48 V DC / 24-240 V AC	1SVR 630 030 R3300
CT-WBS.22	Impulse and flasher timer	Flasher starting with ON / OFF / Impulse-ON / ON-delay / ON/OFF-function / Fixed impulse with adjustable time delay / Adjustable impuls with fixed time delay	2 c/o	✓					24-48 V DC / 24-240 V AC	1SVR 630 040 R3300
CT-ERS.12	⊠	ON-delay	1 c/o	✓					24-48 V DC / 24-240 V AC	1SVR 630 100 R3100
CT-ERS.21		ON-delay	2 c/o	✓					24-240 V AC/DC	1SVR 630 100 R0300
CT-ERS.22		ON-delay	2 c/o	✓					24-48 V DC / 24-240 V AC	1SVR 630 100 R3300
CT-APS.12	▬	OFF-delay	1 c/o	✓		■			24-48 V DC / 24-240 V AC	1SVR 630 180 R3100
CT-APS.21		OFF-delay	2 c/o	✓		■			24-240 V AC/DC	1SVR 630 180 R0300
CT-APS.22		OFF-delay	2 c/o	✓		■			24-48 V DC / 24-240 V AC	1SVR 630 180 R3300
CT-AHS.22		OFF-delay	2 c/o	✓		□			24-48 V DC / 24-240 V AC	1SVR 630 110 R3300
CT-ARS.11		OFF-delay without auxiliary voltage	1 c/o		✓				24-240 V AC/DC	1SVR 630 120 R3100
CT-ARS.21		OFF-delay without auxiliary voltage	2 c/o		✓				24-240 V AC/DC	1SVR 630 120 R3300
CT-VBS.17		OFF-delay without auxiliary voltage, for DC coils							100-127 V AC	1SVR 430 261 R6000
CT-VBS.18									200-240 V AC	1SVR 430 261 R5000
CT-SDS.22	⚠	Star-delta timers	2 n/o		✓				24-48 V DC / 24-240 V AC	1SVR 630 210 R3300
CT-SDS.23		Star-delta timers	2 n/o		✓				380-440 V AC	1SVR 630 211 R2300
CT-IRS.16	▭	Switching relays	1 c/o						24 V AC / DC	1SVR 430 220 R9100
CT-IRS.14			1 c/o						110-240 V AC	1SVR 430 221 R7100
CT-IRS.26			2 c/o						24 V AC / DC	1SVR 430 220 R9300
CT-IRS.24			2 c/o						110-240 V AC	1SVR 430 221 R7300
CT-IRS.26G			2 c/o[2]						24 V AC / DC	1SVR 430 230 R9300
CT-IRS.24G			2 c/o[2]						110-240 V AC	1SVR 430 231 R7300
CT-IRS.36			3 c/o						24 V AC / DC	1SVR 430 220 R9400
CT-IRS.35			3 c/o						220-240 V AC	1SVR 430 221 R1400

1) not for CT-MVS.12
2) with gold contacts
■ Control input with voltage-related (wet/non-floating) triggering
□ Control input with volt-free (dry/floating) triggering

Accessories: COV.01 sealable cover in 22,5 mm width:
1SVR 430 005 R0100

Type	Product	Diameter	Protection	Resistance	Order code
CT-POT.01	Remote potentiometer	30,5 mm	IP65	50 kΩ	1SVR 700 800 R1000
CT-POT.02	Remote potentiometer	22,5 mm	IP65	50 kΩ	1SVR 214 017 R0900
CT-POT.03	Remote potentiometer	10,5 mm	IP40	50 kΩ	1SVR 214 017 R0900

CT-E range

Type	Symbol	Function	Function diagram	Output contacts	0,05 s–100 h	0,05–1 s	0,1–10 s	0,3–30 s	3–300 s	0,3–30 min	Control input	Rated control supply voltage	Order code
CT-MFE		Multifunction timer[1]		1 c/o	✓						■	24-240 V AC/DC	1SVR 550 029 R8100
CT-ERE	⊠	ON-delay	A1-A2 / Ret.	1 c/o		✓						24 V AC/DC, 220-240 V AC	1SVR 550 107 R1100
							✓						1SVR 550 107 R4100
								✓					1SVR 550 107 R2100
									✓				1SVR 550 107 R5100
						✓						110-130 V AC	1SVR 550 100 R1100
							✓						1SVR 550 100 R4100
								✓					1SVR 550 100 R2100
									✓				1SVR 550 100 R5100
CT-AHE	■	OFF-delay	A1-A2 / Y1 / Ret.	1 c/o		✓					■[2]	24 V AC/DC	1SVR 550 118 R1100
							✓						1SVR 550 118 R4100
								✓					1SVR 550 118 R2100
						✓						110-130 V AC	1SVR 550 110 R1100
							✓						1SVR 550 110 R4100
								✓					1SVR 550 110 R2100
						✓						220-240 V AC	1SVR 550 111 R1100
							✓						1SVR 550 111 R4100
								✓					1SVR 550 111 R2100
CT-ARE		OFF-delay	A1-A2 / Ret.	1 c/o		✓						24 V AC/DC, 220-240 V AC	1SVR 550 127 R1100
							✓						1SVR 550 127 R4100
						✓						110-130 V AC	1SVR 550 120 R1100
							✓						1SVR 550 120 R4100
CT-VWE	1⊓ ⊠	impulse-ON	A1-A2 / Ret.	1 c/o		✓						24 V AC/DC, 220-240 V AC	1SVR 550 137 R1100
							✓						1SVR 550 137 R4100
								✓					1SVR 550 137 R2100
						✓						110-130 V AC	1SVR 550 130 R1100
							✓						1SVR 550 130 R4100
								✓					1SVR 550 130 R2100
CT-AWE	1⊓ ■	impulse-OFF	A1-A2 / Y1 / Ret.	1 c/o		✓					■[2]	24 V AC/DC	1SVR 550 148 R1100
							✓						1SVR 550 148 R4100
								✓					1SVR 550 148 R2100
						✓						110-130 V AC	1SVR 550 140 R1100
							✓						1SVR 550 140 R4100
								✓					1SVR 550 140 R2100
						✓						220-240 V AC	1SVR 550 141 R1100
							✓						1SVR 550 141 R4100
								✓					1SVR 550 141 R2100
			A1-A2 / Ret.	1 c/o	✓							24 V AC/DC	1SVR 550 158 R3100
					✓							110-130 V AC	1SVR 550 150 R3100
					✓							220-240 V AC	1SVR 550 151 R3100
CT-EBE	⊓ ■	flasher	A1-A2 / Ret.	1 c/o		✓						24 V AC/DC, 220-240 V AC	1SVR 550 167 R1100
						✓						110-130 V AC	1SVR 550 160 R1100
CT-YDE	△ ⊠	star-delta switching / ON-delay		1 c/o		✓						24 V AC/DC, 220-240 V AC	1SVR 550 207 R1100
							✓						1SVR 550 207 R4100
								✓					1SVR 550 207 R2100
						✓						110-130 V AC	1SVR 550 200 R1100
							✓						1SVR 550 200 R4100
								✓					1SVR 550 200 R2100
CT-SDE	△ 1⊓	impulse		1 c/o			✓					24 V AC/DC, 220-240 V AC	1SVR 550 217 R4100
							✓					110-130 V AC	1SVR 550 210 R4100
							✓					380-415 V AC	1SVR 550 212 R4100

1) Functions: ON-delay, OFF-delay, impulse-ON, flasher starting with ON or OFF, pulse forming
2) Polarized, not capable of switching a parallel load
■ Control input with voltage-related (wet/non-floating) triggering

CT-E range, solid-state output

Type	Symbol	Function	Function diagram	Output contacts	0,1–10 s	0,3–30 s	3–300 s	Control input	Rated control supply voltage	Order code
CT-MKE[1]	1 ⌷⌷⌷	Multifunctional timer[2]		thyristor 240 V/0.8 A	✓	✓			24-240 V AC/DC	1SVR 550 019 R0000
CT-EKE	⊠	ON-delay	A1-AL / Laststrom.	thyristor 240 V/0.8 A	✓				24-240 V AC/DC	1SVR 550 509 R1000
						✓				1SVR 550 509 R4000
							✓			1SVR 550 509 R2000
CT-AKE	■	OFF-delay	A1-AL / Y2-A2 / Laststrom.	thyristor 240 V/0.8 A	✓			■	24-240 V AC/DC	1SVR 550 519 R1000
						✓				1SVR 550 519 R4000
							✓			1SVR 550 519 R2000

1) contactless, function and time range selection via external jumpers
2) Functions: ON-delay (AC/DC), Impulse-ON (AC only), Flasher starting with ON (AC only), Flasher starting with OFF (AC only)
■ Control input with voltage-related (wet/non-floating) triggering

CT-D range, modular

NEW: 2 c/o contacts

Type	Symbol	Function	Function diagram	Output contacts	0,05 s – 100 h	0,05 s – 10 min	Control input	Rated control supply voltage	Order code
CT-MFD.12		ON-delay OFF-delay with auxiliary voltage Impulse-ON		1 c/o	✓		■	24-48 V DC, 24-240 V AC	1SVR 500 020 R0000
CT-MFD.21		Impulse-OFF with auxiliary voltage, Flasher starting with ON / OFF Pulse former		2 c/o				12-240 V AC / DC	1SVR 500 020 R1100
CT-ERD.12	⊠	ON-delay	A1-A2 / Rel	1 c/o	✓			24-48 V DC, 24-240 V AC	1SVR 500 100 R0000
CT-ERD.22				2 c/o	✓				1SVR 500 100 R0100
CT-AHD.12	■	OFF-delay	A1-A2 / Y1 / Rel	1 c/o	✓		■	24-48 V DC, 24-240 V AC	1SVR 500 110 R0000
CT-AHD.22				2 c/o	✓				1SVR 500 110 R0100
CT-VWD.12	1 ⌷ ⊠	Impulse-ON	A1-A2 / Rel	1 c/o	✓			24-48 V DC, 24-240 V AC	1SVR 500 130 R0000
CT-EBD.12	⌷ ⊠	Flasher, starting with the ON time	A1-A2 / Rel	1 c/o	✓			24-48 V DC, 24-240 V AC	1SVR 500 150 R0000
CT-TGD.12	⌷ ⊠	Pulse generators	A1-A2 / Rel	1 c/o	✓		■	24-48 V DC, 24-240 V AC	1SVR 500 160 R0000
CT-TGD.22	⌷ ■			2 c/o	✓				1SVR 500 160 R0100
CT-SDD.22	⚠	Star-delta timer	Transition time fix 50 ms	2 c/o		✓		24-48 V DC, 24-240 V AC	1SVR 500 211 R0100
CT.SAD.22			Transition time adjustable[1]	2 c/o		✓			1SVR 500 210 R0000

1) 20-100 ms in 10 ms increments
■ Control input with voltage-related (wet/non-floating) triggering

Conversion table CT-S range 1SVR 430 ... → 1SVR 630 ...

Type old	Order code old	Type new / alternative	Order code new / alternative
Multifunctional timers			
CT-MFS	1SVR 430 010 R0200	**CT-MFS.21** CT-MVS.21	**1SVR 630 010 R0200** 1SVR 630 020 R0200
CT-MVS	1SVR 430 023 R0200	**CT-MVS.22**	**1SVR 630 020 R3300**
CT-MBS	1SVR 430 010 R1200	**CT-MBS.22** CT-MVS.22	**1SVR 630 010 R3200** 1SVR 630 020 R3300
CT-MBS	1SVR 430 012 R0200	**CT-MBS.22** CT-MVS.22	**1SVR 630 010 R3200** 1SVR 630 020 R3300
CT-MBS	1SVR 430 011 R2200	**CT-MVS.23**	**1SVR 630 021 R2300**
CT-MBS	1SVR 430 010 R1100	**CT-MBS.22** CT-MFS.21	**1SVR 630 010 R3200** 1SVR 630 010 R0200
CT-MBS	1SVR 430 013 R0100	**CT-MBS.22** CT-MFS.21	**1SVR 630 010 R3200** 1SVR 630 010 R0200
CT-MBS	1SVR 430 011 R2100	**CT-MVS.23**	**1SVR 630 021 R2300**
ON-delay timers			
CT-ERS	1SVR 430 100 R1100	**CT-ERS.12**	**1SVR 630 100 R3100**
CT-ERS	1SVR 430 102 R0100	**CT-ERS.12**	**1SVR 630 100 R3100**
CT-ERS	1SVR 430 101 R2100	**CT-MVS.23**	**1SVR 630 021 R2300**
CT-ERS	1SVR 430 103 R0100	**CT-ERS.12** CT-ERS.21	**1SVR 630 100 R3100** 1SVR 630 100 R0300
CT-ERS	1SVR 430 100 R1200	**CT-ERS.21**	**1SVR 630 100 R0300**
CT-ERS	1SVR 430 103 R0200	**CT-ERS.21**	**1SVR 630 100 R0300**
CT-ERS	1SVR 430 101 R2200	**CT-MVS.23**	**1SVR 630 021 R2300**
OFF-delay timers			
CT-AHS	1SVR 430 113 R0100	**CT-AHS.22**	**1SVR 630 110 R3300**
CT-AHS	1SVR 430 113 R0200	**CT-AHS.22**	**1SVR 630 110 R3300**
CT-APS	1SVR 430 183 R0300	**CT-APS.22**	**1SVR 630 180 R3300**
CT-ARS	1SVR 430 120 R0100	**CT-ARS.11**	**1SVR 630 120 R3100**[1]
CT-ARS	1SVR 430 120 R0300	**CT-ARS.21**	**1SVR 630 120 R3300**[1]
CT-VBS	1SVR 430 261 R6000	**CT-VBS.17**	**1SVR 430 261 R6000**
CT-VBS	1SVR 430 261 R5000	**CT-VBS.18**	**1SVR 430 261 R5000**
ON- and OFF-delay timers			
CT-EAS	1SVR 430 173 R0100	**CT-MXS.22** CT-MFS.21	**1SVR 630 030 R3300** 1SVR 630 010 R0200
CT-EAS	1SVR 430 173 R0200	**CT-MXS.22** CT-MBS.22	**1SVR 630 030 R3300** 1SVR 630 010 R3200
CT-EVS	1SVR 430 193 R0100	**CT-MXS.22**	**1SVR 630 030 R3300**

Type old	Order code old	Type new / alternative	Order code new / alternative
Impulse-ON relays			
CT-VWS	1SVR 430 132 R0100	**CT-WBS.22**	**1SVR 630 040 R3300**
CT-VWS	1SVR 430 133 R0200	**CT-WBS.22**	**1SVR 630 040 R3300**
Impulse-OFF relays			
CT-AWS	1SVR 430 143 R0100	**CT-MVS.12**	**1SVR 630 020 R3100**
CT-AWS	1SVR 430 143 R0200	**CT-WBS.22**	**1SVR 630 040 R3300**
Flasher			
CT-EBS	1SVR 430 152 R0100	**CT-WBS.22**	**1SVR 630 040 R3300**
CT-EBS	1SVR 430 153 R0200	**CT-WBS.22**	**1SVR 630 040 R3300**
Pulse generators			
CT-TGS	1SVR 430 163 R0100	**CT-MXS.22**	**1SVR 630 030 R3300**
CT-PGS	1SVR 430 253 R0100	**CT-MXS.22**	**1SVR 630 030 R3300**
Star-delta change-over timer			
CT-YDAV	1SVR 430 203 R0200	**CT-SDS.22** CT-MBS.22	**1SVR 630 210 R3300** 1SVR 630 010 R3200
CT-YDAV	1SVR 430 201 R2300	**CT-SDS.23** CT-MVS.23	**1SVR 630 211 R2300** 1SVR 630 021 R2300
CT-YDEW	1SVR 430 213 R0200	**CT-SDS.22** CT-MBS.22	**1SVR 630 210 R3300** 1SVR 630 010 R3200
Switching relays			
CT-IRS	1SVR 430 220 R9100	**CT-IRS.16**	**1SVR 430 220 R9100**
CT-IRS	1SVR 430 220 R8100	not replaced	-
CT-IRS	1SVR 430 221 R7100	**CT-IRS.14**	**1SVR 430 221 R7100**
CT-IRS	1SVR 430 220 R9300	**CT-IRS.26**	**1SVR 430 220 R9300**
CT-IRS	1SVR 430 220 R8300	not replaced	-
CT-IRS	1SVR 430 221 R7300	**CT-IRS.24**	**1SVR 430 221 R7300**
CT-IRS	1SVR 430 230 R9300	**CT-IRS.26G**	**1SVR 430 230 R9300**
CT-IRS	1SVR 430 231 R7300	**CT-IRS.24G**	**1SVR 430 231 R7300**
CT-IRS	1SVR 430 220 R9400	**CT-IRS.36**	**1SVR 430 220 R9400**
CT-IRS	1SVR 430 220 R8400	not replaced	-
CT-IRS	1SVR 430 221 R1400	**CT-IRS.35**	**1SVR 430 221 R1400**

1) available in 3th quarter 2007, until then old types available

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