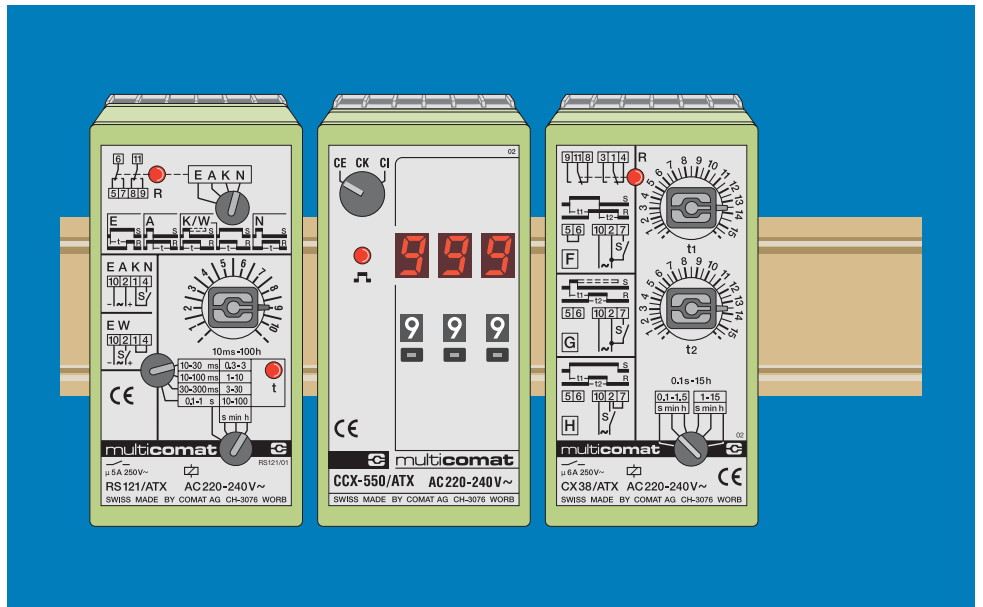


*Time Delay Relays*

# Plug-in Time Delay Relays

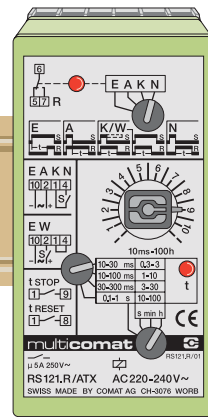
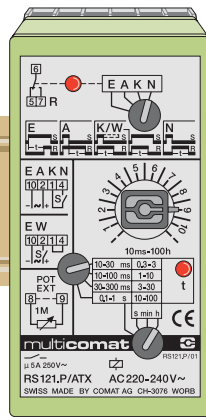
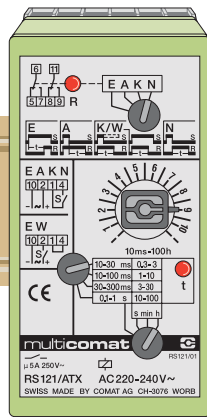
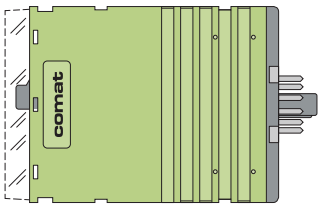
**multicomat**



- RS Series
- C Series
- CX Series



# Plug-in Time Delay Relays multicomat



## Time Delay Relays

Field proven since many years.  
The plug-in timer series from comat for highest quality requirements and unattained versatile operation.

### RS 121

#### Multifunctional Time Delay Relay

- 5 functions
- 2 change-over contacts
- potential-free triggering or sensor PNP/NPN

### RS 121.P

#### Multifunctional Time Delay Relay

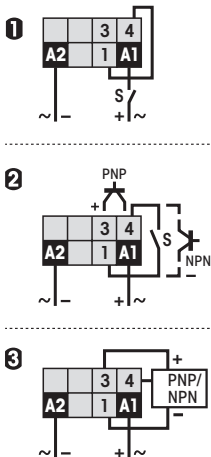
- 5 functions
- 2 change-over contacts
- potential-free triggering or sensor PNP/NPN
- with connection for remote potentiometer

### RS 121.R

#### Multifunctional Time delay Relay

- 5 functions
- with t-stop and t-Reset function
- 1 change-over contact
- potential-free triggering or sensor PNP/NPN

#### Triggering



**E-0** Triggering  
Function (page \*)

Time range  
Partial range

$\mu$  MAX

Diagram  
Connection  
with socket C11A

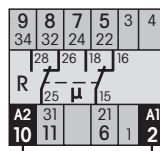
~ AC 50/60Hz	AC220-240V	ATX
	AC110-120V	ANP
~ UC AC/DC	UC24-48V	UFK
	UC12V	UCB
DC 10%	DC110-240V	DNX

Ordering no.  $\rightarrow$  RS 121/ ...

**E-003 W-0**  
**A K N-23**

10ms-100h  
ms; s; min; h

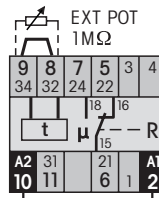
5 A 250V~



**E-003 W-0**  
**A K N-23**

10ms-100h  
ms; s; min; h

5 A 250V~



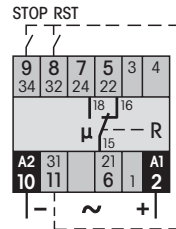
AC220-240V	ATX
AC110-120V	ANP
UC24-48V	UFK

Ordering no.  $\rightarrow$  RS 121.P/ ...

**E-003 W-0** t-STOP  
**A K N-23** t-RESET

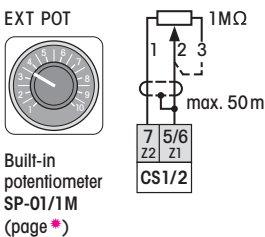
10ms-100h  
ms; s; min; h

5 A 250V~



AC220-240V	ATX
AC110-120V	ANP
UC24-48V	UFK

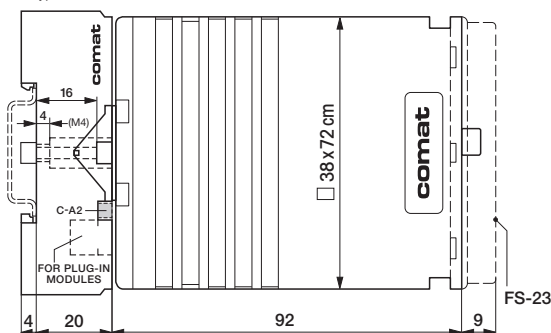
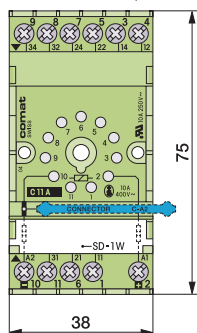
Ordering no.  $\rightarrow$  RS 121.R/ ...



#### Ordering example

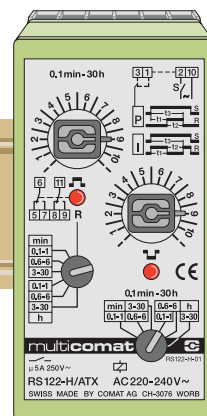
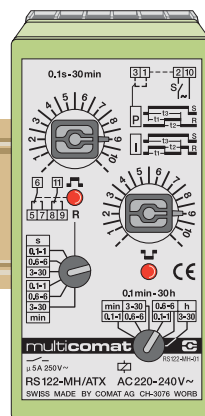
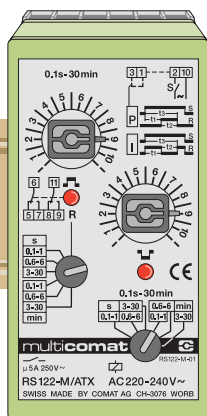
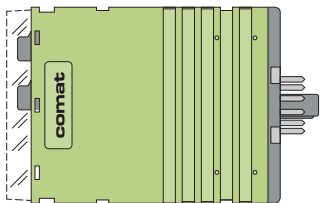
Timer RS 121/ATX  
Socket C11A

System socket C11A  
Figure: with plug-in neutral conductor connector C-A2 (standard delivery).





# Repeat Cycle Timer multicomat



### Cycle Timer

Field proven since many years.  
The plug-in timer series from comat for highest quality requirements and unattained versatile operation.

### RS 122-M

**Universal Cycle Timer**  
• pulse or interval start  
• Time range 0,1s-30min  
• 2 change-over contacts

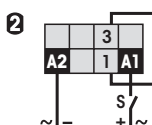
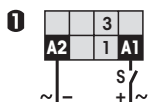
### RS 122-MH

**Universal Cycle Timer**  
• pulse or interval start  
• Time range: pulse 0,1s-30min  
interval 0,1min-30h  
• 2 change-over contacts

### RS 122-H

**Universal Cycle Timer**  
• pulse or interval start  
• Time range 0,1min-30h  
• 2 change-over contacts

### Triggering



**E-0** Triggering  
Function (page \*)

Time range

μ MAX →

Diagram  
Connection  
with socket C11A

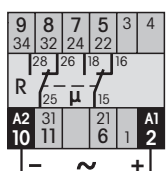
~ AC 50/60Hz	AC220-240V	ATX
	AC110-120V	ANP
~ UC AC/DC	UC24-48V	UFK
	UC12V	UCB
≡ DC 10%	DC110-240V	DNX

Ordering no. →

**I-0**  
**P-2**

t I: 0,1s-30min  
t P: 0,1s-30min

5 A 250V~



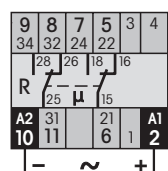
~ AC 50/60Hz	AC220-240V	ATX
	AC110-120V	ANP
~ UC AC/DC	UC24-48V	UFK
	UC12V	UCB
≡ DC 10%	DC110-240V	DNX

RS 122-M/ ...

**I-0**  
**P-2**

t I: 0,1s-30min  
t P: 0,1min-30h

5 A 250V~



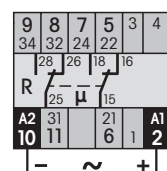
~ AC 50/60Hz	AC220-240V	ATX
	AC110-120V	ANP
~ UC AC/DC	UC24-48V	UFK
	UC12V	UCB
≡ DC 10%	DC110-240V	DNX

RS 122-MH/ ...

**I-0**  
**P-2**

t I: 0,1min-30h  
t P: 0,1min-30h

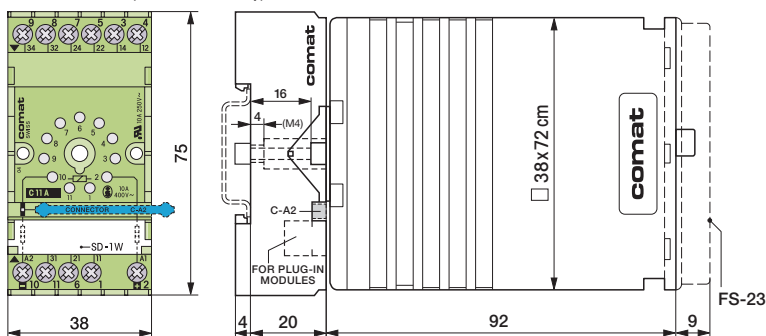
5 A 250V~



~ AC 50/60Hz	AC220-240V	ATX
	AC110-120V	ANP
~ UC AC/DC	UC24-48V	UFK
	UC12V	UCB
≡ DC 10%	DC110-240V	DNX

RS 122-H/ ...

**System socket C11A**  
Figure: with plug-in neutral conductor connector C-A2 (standard delivery).

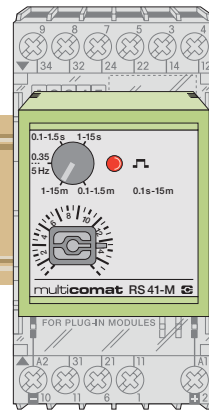
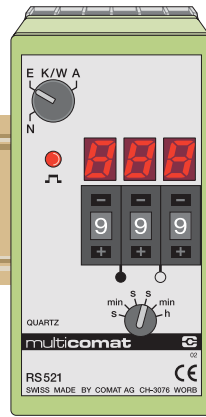
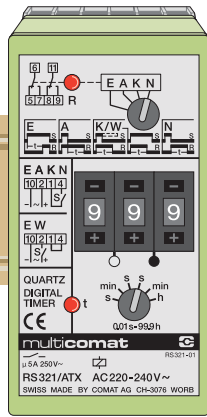
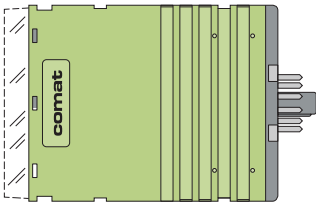


### Ordering example

Timer RS 122-M/ATX  
Socket C11A



Plug-in Time Delay Relay multicomat



Time Delay Relay

11-pole plug-in time relay for highest requirement in regard to quality and performance. Application-oriented, universal employment, operator friendly.

RS 321

Digital Multifunction Time Delay Relay

- 5 functions
- 2 change-over contacts
- potential-free triggering

RS 521

Digital Multifunction Time Delay Relay

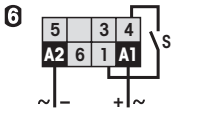
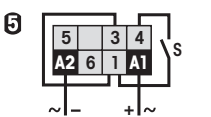
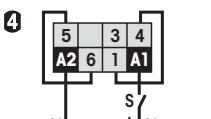
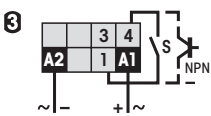
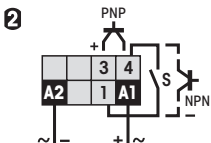
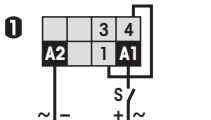
- digital time elapse display
- time stop function
- 2 change-over contacts
- potential-free triggering

RS 41-M

Economy Multifunction Time Delay Relay

- 5 functions
- 1 change-over contact
- potential-free triggering
- with front cover

Triggering



E-0 Triggering

Function (page \*)

Time range  
Partial range

μ<sup>1</sup> MAX

Diagram  
Connection  
with socket C11A

~ AC 50/60Hz

~ UC AC/DC

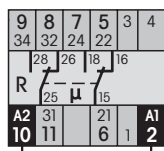
≡ DC <math>\leq 10\%</math>

Ordering no. →



0,01s-99,9h  
s; min; h

5 A 250V~



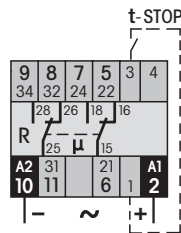
- AC220-240V ATX
- AC110-120V ANP
- UC24-48V UFK
- UC12V UCB
- DC110-240V DNX

RS 321/ ....



0,01s-99,9h  
s; min; h

5 A 250V~



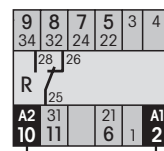
- AC110-240V ANX
- UC24-48V UFK
- DC110-240V DNX

RS 521/ ....



0,1s-15min  
s; min

6 A 250V~



- AC220-240V ATX
- AC110-120V ANP
- UC24-48V UFK

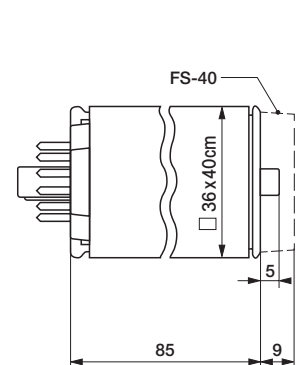
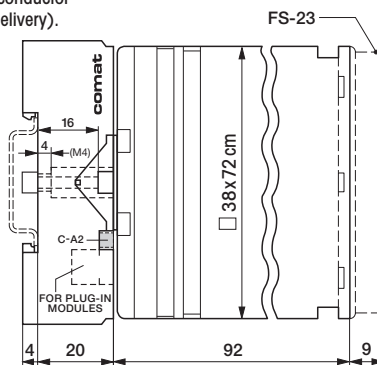
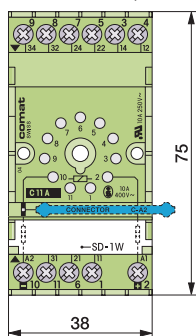
RS 41-M/ ....

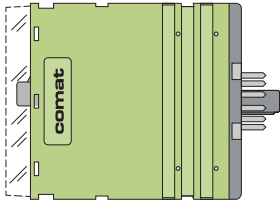
Ordering example

Timer RS 321/ATX  
Socket C11A

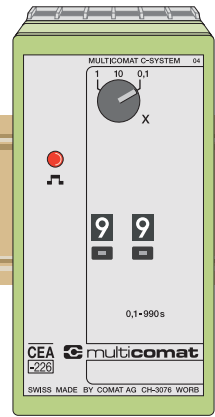
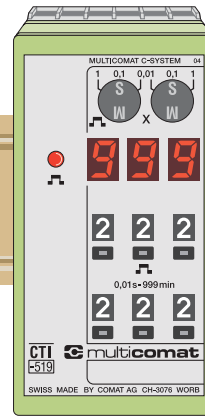
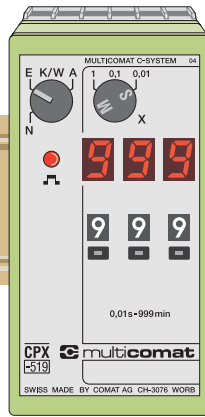
System socket C11A

Figure: with plug-in neutral conductor connector C-A2 (standard delivery).





# Plug-in Time Delay Relay multicomat



### Time Delay Relay

Field proven since many years. The plug-in timer series from comat for highest quality requirements and unattained versatile operation.

### CPX-519

- Digital Multifunctional Time Delay Relay**
- with digital time elapsed display
  - 5 functions
  - 2 change-over contacts
  - potential-free triggering

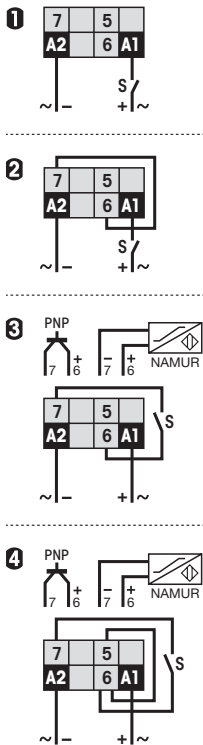
### CTI-519

- Digital Cycle Timer**
- Rest interval can be set separately
  - digital time elapsed display
  - 2 change-over contacts
  - potential-free triggering

### CEA-226

- Time Delay Relay**
- 2 change-over contacts
  - potential-free triggering

### Triggering



**E-1** Triggering  
Function (page \*)

**Time range**  
Partial range

**μ MAX**

**Diagram**  
Connection with socket C11A

**~ AC 50/60Hz**

**~ UC AC/DC**

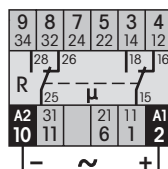
**≡ DC 10%**

**Ordering no. →**

**E-23 W-2**  
**A-K-N-3**

**0,01s-999 min**  
s; min

**6 A 250V~**



**AC110-240V ANX**

**UC24-48V UFK**

**UC12V UCB**

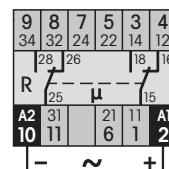
**DC110-240V DNX**

**CPX-519/ ...**

**I-23**

**2x 0,01s-999 min**  
s; min

**6 A 250V~**



**AC110-240V ANX**

**UC24-48V UFK**

**UC12V UCB**

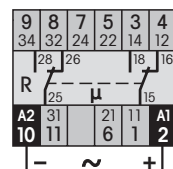
**DC110-240V DNX**

**CTI-519/ ...**

**E-23**  
**A-4**

**0,1s-990 s**  
s

**6 A 250V~**



**AC220-240V ATX**

**AC110-120V ANP**

**UC24-48V UFK**

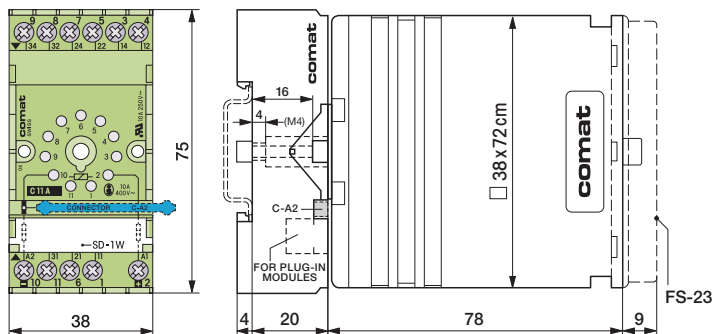
**UC12V UCB**

**DC110-240V DNX**

**CEA-226 / ...**

### System socket C11A

Figure: with plug-in neutral conductor connector C-A2 (standard delivery).

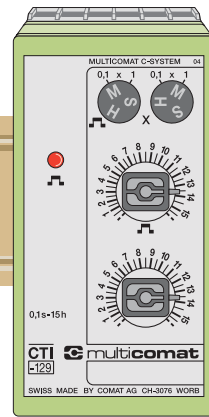
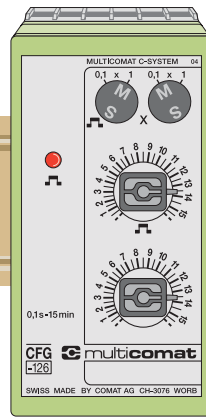
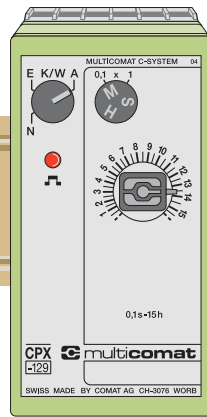
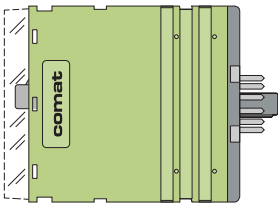


### Ordering example

Timer CPX-519/ANX  
Socket C11A



# Plug-in Time Delay Relay multicomat



### Time Delay Relay

Field proven since many years. The plug-in timer series from comat for highest quality requirements and unattained versatile operation.

### CPX-129

#### Multifunctional Time Delay Relay

- 5 functions
- 2 change-over contacts
- potential-free triggering

### CFG-126

#### Multifunctional Time Delay Relay with 3 double functions

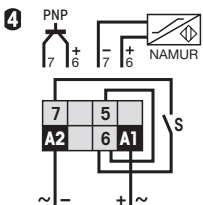
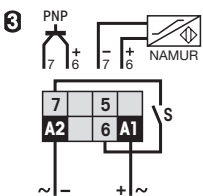
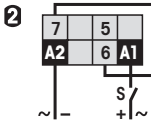
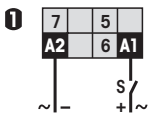
- individual setting of t1/t2
- 2 change-over contacts
- potential-free triggering

### CTI-129

#### Multifunctional Cycle Timer

- Reset interval can be set separate
- 2 change-over contacts

### Triggering



### E-0 Triggering

Function (page \*)

Time range  
Partial range

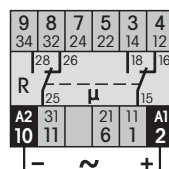
μ MAX

Diagram  
Connection  
with socket C11A



0,1s-15h  
s; min; h

6 A 250V~



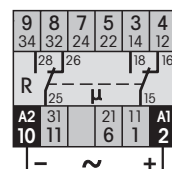
2x 0,01s-15min  
s; min

6 A 250V~



2x 0,1s-15h  
s; min; h

6 A 250V~



~ AC 50/60Hz	AC220-240V	ATX
	AC110-120V	ANP
~ UC AC/DC	UC24-48V	UFK
	UC12V	UCB
	DC 110-240V	DNX

~ AC 50/60Hz	AC220-240V	ATX
	AC110-120V	ANP
~ UC AC/DC	UC24-48V	UFK
	UC12V	UCB
	DC 110-240V	DNX

~ AC 50/60Hz	AC220-240V	ATX
	AC110-120V	ANP
~ UC AC/DC	UC24-48V	UFK
	UC12V	UCB
	DC 110-240V	DNX

Ordering no. → CPX-129/ ...

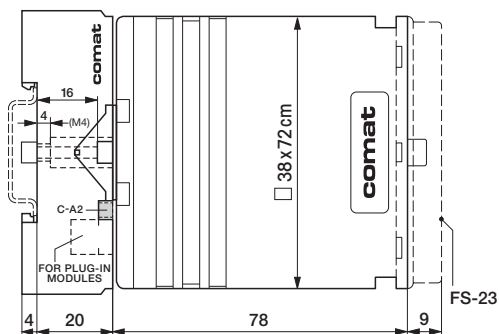
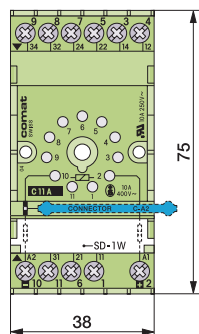
CFG-126/ ...

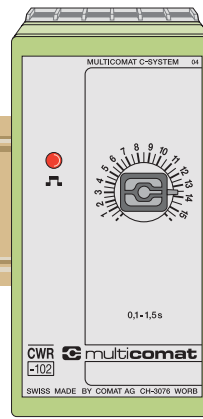
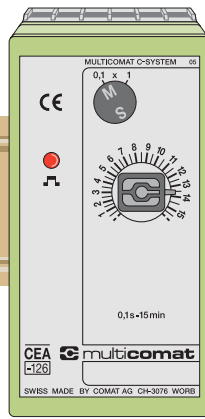
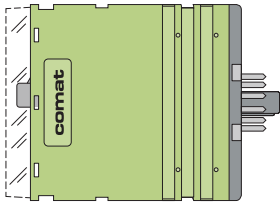
CTI-129/ ...

### Ordering example

Timer CPX-129/ATX  
Socket C11A

System socket C11A  
Figure: with plug-in neutral conductor connector C-A2 (standard delivery).





**Time Delay Relays**

Field proven since many years.  
The plug-in timer series from comat for highest quality requirements and unattained versatile operation.

**CEA-126**

**Multifunctional Time Delay Relays**

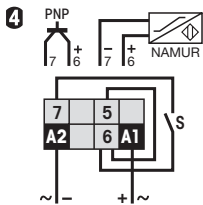
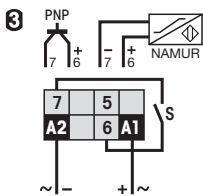
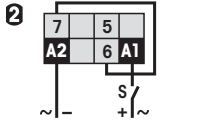
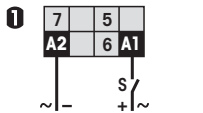
- on delay or off delay
- 2 change-over contacts
- potential-free triggering

**CWR-102**

**Single Shot Relay**

- 3 functions
- function t1 = t2
- 2 change-over contacts
- potential-free triggering

**Triggering**



**E-1** Triggering  
Function (page \*)

**Time range**  
Partial range

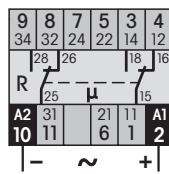
μ MAX

**Diagram**  
Connection  
with socket C11A

**E-23**  
**A-4**

**0,1s-15 min**  
s; min

**6 A 250V~**



**~ AC 50/60Hz**

**AC220-240V**

**AC110-120V**

**~ UC AC/DC**

**UC24-48V**

**UC12V**

**≡ DC <math>\pm 10\%</math>**

**AC220-240V**

**AC110-120V**

**UC24-48V**

**UC12V**

**DC110-240V**

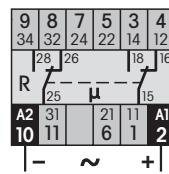
**Ordering no. →**

**CEA-126/ ...**

**W-2 N-4**  
**Q-3**

**0,1-1,5s**

**6 A 250V~**



**AC220-240V**

**AC110-120V**

**UC24-48V**

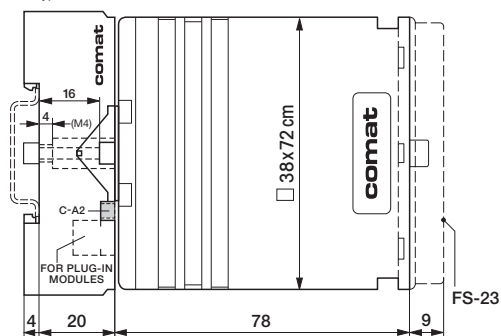
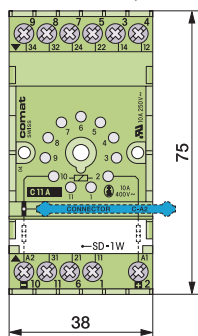
**UC12V**

**DC110-240V**

**CWR-102/ ...**

**System socket C11A**

Figure: with plug-in neutral conductor connector C-A2 (standard delivery).

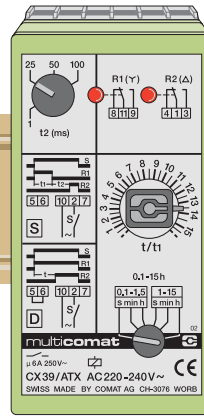
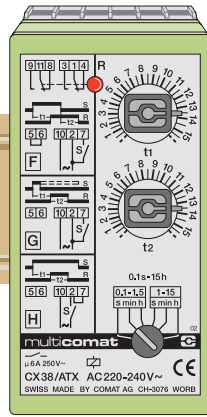
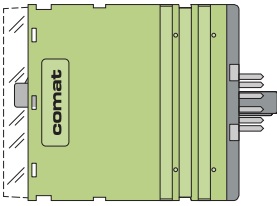


**Ordering example**

**Timer CEA-126/ATX  
Socket C11A**



# Plug-in Time Delay Relay multicomat



### Time Delay Relays

Electronic Timer Relay with mains triggering and 2 change-over contacts. Digital timing generated with RC-Oscillator and frequency conductor with LED indication of relay function.

### CX 38

#### Multifunctional Time Delay Relays

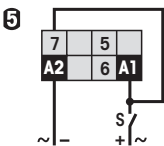
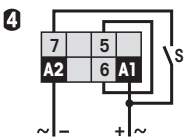
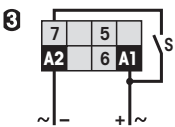
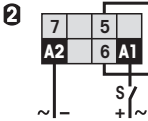
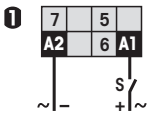
- 3 functions
- delay time ranges can be set individual
- 2 change-over contacts
- mains triggering

### CX 39

#### Star-Delta Timer

- adjustable  $\lambda$  -  $\Delta$  change-over pause.
- On delay with instantaneous contacts (R1 = immediately / R2 = t)
- 2 change-over contacts

### Triggering

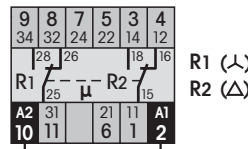
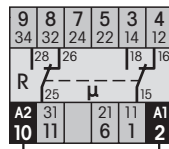


**E** **0** Triggering  
Function (page \*)

Time range  
Partial range

$\mu$  MAX

Diagram  
Connection  
with socket C11A



~ AC 50/60Hz	AC220-240V	ATX
	AC110-120V	ANP
~ UC AC/DC	UC24-48V	UFK
	UC12V	UCB
== DC $\nabla$ 10%	DC110-240V	DNX

~ AC 50/60Hz	AC220-240V	ATX
	AC110-120V	ANP
~ UC AC/DC	UC24-48V	UFK
	UC12V	UCB
== DC $\nabla$ 10%	DC110-240V	DNX

Ordering no.  $\rightarrow$  CX 38/ ...

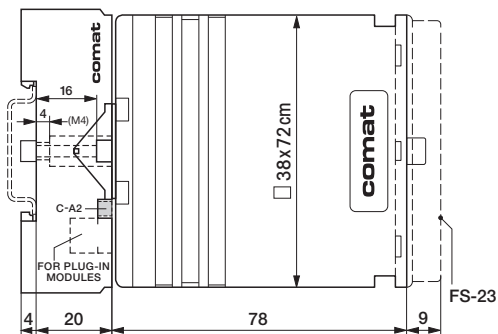
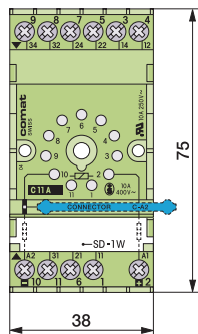
CX 39/ ...

### Ordering example

Timer CX 38/ATX  
Socket C11A

### System socket C11A

Figure: with plug-in neutral conductor connector C-A2 (standard delivery).







**Kühn Controls AG**

**Notes:**

You want more information about this product, please call us: tel: +49 (0)7082-940000 or send us a fax: +49 (0)7082-940001, or email: [sales@kuehn-controls.de](mailto:sales@kuehn-controls.de) or visit our Website: [www.kuehn-controls.de](http://www.kuehn-controls.de)