

- Installation Relays
- Stair case lighting time

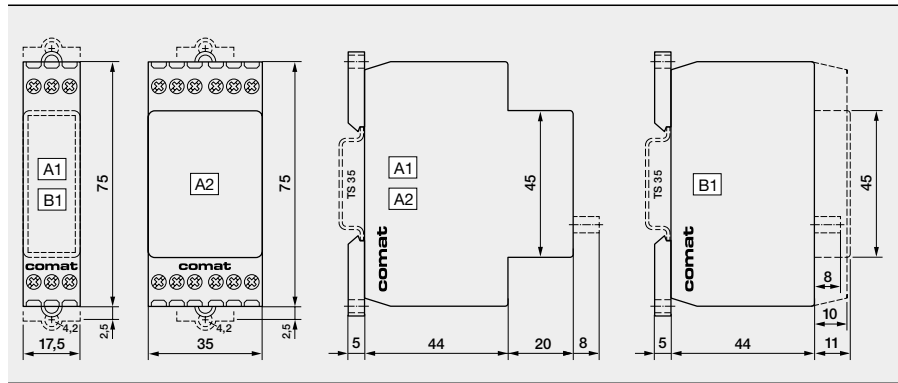
**CR 8 01**



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## Power Relays Step-on Step-off Relays

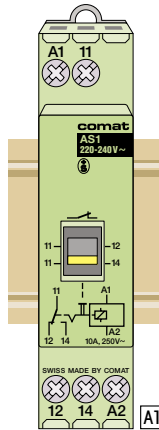
## Staircase Lighting Timers



**if** This series has been awarded the if mark for outstanding industrial design.

As a particular and common characteristic the comat light control devices/staircase lighting timers of the series AL2, AL3, AL4 and AL5 have a twin-contact output with one side of the early make contact made of tungsten. A tungsten contact with its extremely high melting point can conduct exceptionally high currents, i.e. up to 600A until, in the case of short-circuit the fuse connected in series triggers. Or up to 120A for 20ms, as can appear when switching compensated fluorescent lamps or other gas discharge lamps. With this characteristic a welding of contacts can be reliably prevented.

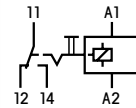
The devices in the AL4 and AL5 series are made for central control of switching functions and can also be used for the operation with extra-low voltages: The professional solution for installations in schools, homes, authorities, industrial environments connected to a control central or to various illuminated push buttons (LED or glow lamps) up to 40 mA.



### AS1 Step-on Step-off Relays

- Power change-over contacts 10A, 250V~
- Remanence relay, manual operation
- Mechanical output status

AC ~	UC ≈
50/60 Hz	~/~/~
220-240V	48-60V
110-127V	24-36V
	12-15V
-15/+10%, 0,25-0,5W nom	

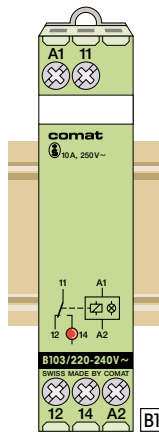


1) | 10A, 250V~

μ AgCdO  
2200VA, ≤ 150W (DC)  
2x10<sup>7</sup> mechanical life

1) Values for resistive loads

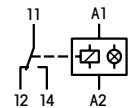
Ex. of order: 1 Step-on Step-off Relay AS1/AC220-240V



### B103 Power Relays

- Power change-over contacts 10A, 250V~
- Freewheel diode and DC reverse-polarity protection
- LED output status

AC ~	UC ≈
50/60 Hz	~/~/~
220-240V	24, 48V
110-127V	8-12V
-15/+10%, 0,8-1,25W nom	

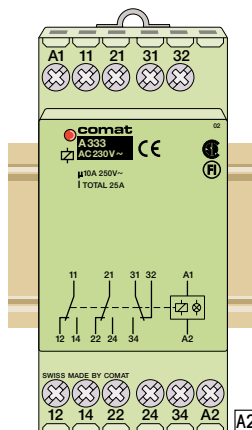


1) | 10A, 250V~

μ AgCdO  
2200VA, ≤ 200W (DC)  
2x10<sup>7</sup> mechanical life

1) Values for resistive loads

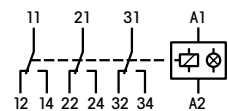
Ex. of order: 1 Power Relay B103/AC220-240V



### A333 Power Relays

- Power change-over contacts 10A, 250V~
- Freewheel diode and DC reverse-polarity protection
- LED output status

AC ~	DC ≈
50/60 Hz	~/~/~
230, 110V	24, 48V
24, 48V	12V
-15/+10%, 2,2VA/1,2W nom	



1) | 10A, 250V~

μ AgCdO  
1500VA, ≤ 200W (DC)  
2x10<sup>7</sup> mechanical life

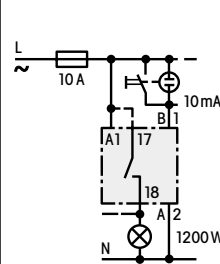
1) Values for resistive loads

Ex. of order: 1 Power Relay A333/AC220V

### AL1 Staircase Lighting Timers

- For small to medium-sized installations
- Single contact 10A, 250V~
- 30s-10min running time, infinitely adjustable
- subsequent time operation from zero, manual ON

t AL1	30s - 10min
AC ~	50/60 Hz
220-240, 110-127V	-15/+10%, 1 W nom
1)   10A, 250V~	μl AgCdO
2200VA, ≤ 200W (DC)	2x10 <sup>7</sup> mechanical life
1) Values for resistive loads	

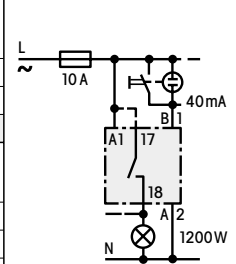


Ex. of order: 1 Staircase Lighting Timer AL1/AC220-240V

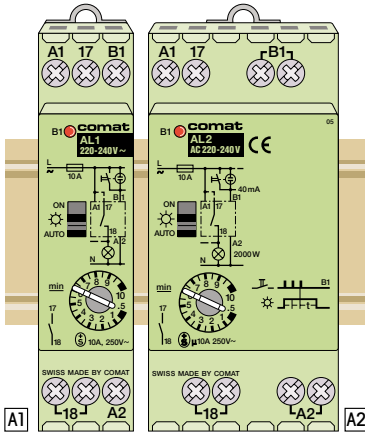
### AL2 Staircase Lighting Timers (120A)

- With special contact for high lamp loads
- 120A special early make contact
- 30s-10min running time, infinitely adjustable
- subsequent time operation from zero, manual ON

t AL2	30s - 10min
AC ~	50/60 Hz
220-240, 110-127V	-15/+10%, 1 W nom
1)   10A, 250V~	μl Tungsten/AgCdO
2200VA, ≤ 200W (DC)	3x10 <sup>7</sup> mechanical life
1) Values for resistive loads	



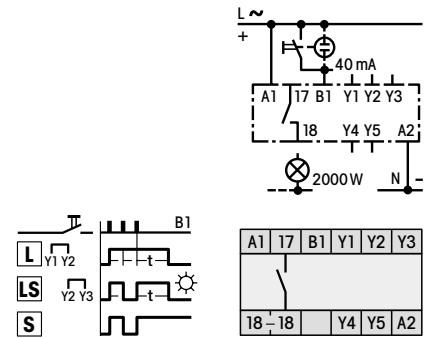
1 Staircase Lighting Timer AL2/AC220-240V



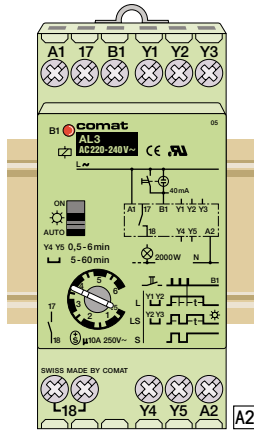
### AL3 Universal Staircase Lighting Timers 10(120)A

- With stepping switch functions LS and S
- 120A special early make contact
- 30s-1h running time, infinitely adjustable
- subsequent time operation from zero, manual ON

AC ~	50/60 Hz	UC ≈	24V	t AL3	0,5 - 60min
220 - 240V	110 - 127V	48 - 60V	-15/+10%, 1 W nom	0,5 - 6 min	5 - 60 min
1)   10A, 250V~				μl Tungsten/AgCdO	
2200VA, ≤ 200W (DC)				3x10 <sup>7</sup> mechanical life	
1) Values for resistive loads					



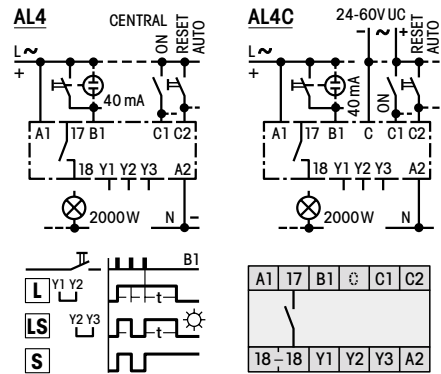
Example of order: 1 Staircase Lighting Timer AL3/AC220-240V



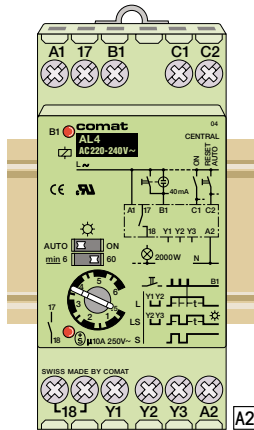
### AL4 (C) Staircase Lighting Timers for central control 10(120)A

- Two-way lighting control on-off, stepping switch
- 120A special early make contact
- 30s-1h running time, infinitely adjustable
- subsequent time operation from zero, manual ON

AC ~	50/60 Hz	UC ≈	24V*	t AL4, AL4C	0,5 - 60min
220 - 240V	110 - 127V	48 - 60V*	* only AL4 not AL4C	0,5 - 6 min	5 - 60 min
1)   10A, 250V~				μl Tungsten/AgCdO	
2200VA, ≤ 200W (DC)				3x10 <sup>7</sup> mechanical life	
1) Values for resistive loads					



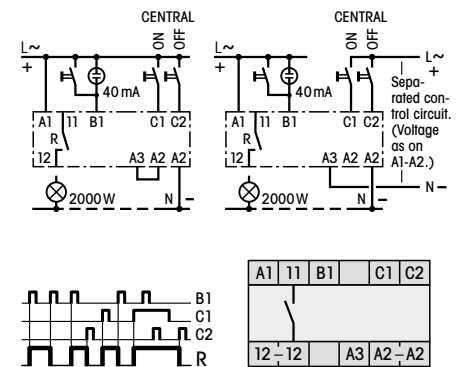
Example of order: 1 Staircase Lighting Timer AL4/AC220-240V



### AL5 Power step-on step-off relay for central control 10(120)A

- Stepping switch funct. S
- Central ON-OFF
- 120A special early make contact
- Output status
- Neon lamps by AC control

AC ~	50/60 Hz	UC ≈	24V	t AL5	0,5 - 60min
230V	48 - 60V	-15/+10%, 1,2 W nom	1)   10A, 250V~	μl Tungsten /AgCdO	
2200VA, ≤ 200W (DC)				3x10 <sup>7</sup> mechanical life	
1) Values for resistive loads					



Example of order: 1 Power step-on step-off relay AL5/AC 230V

