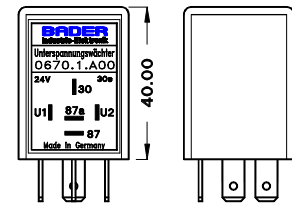
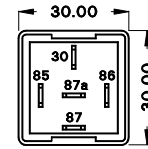
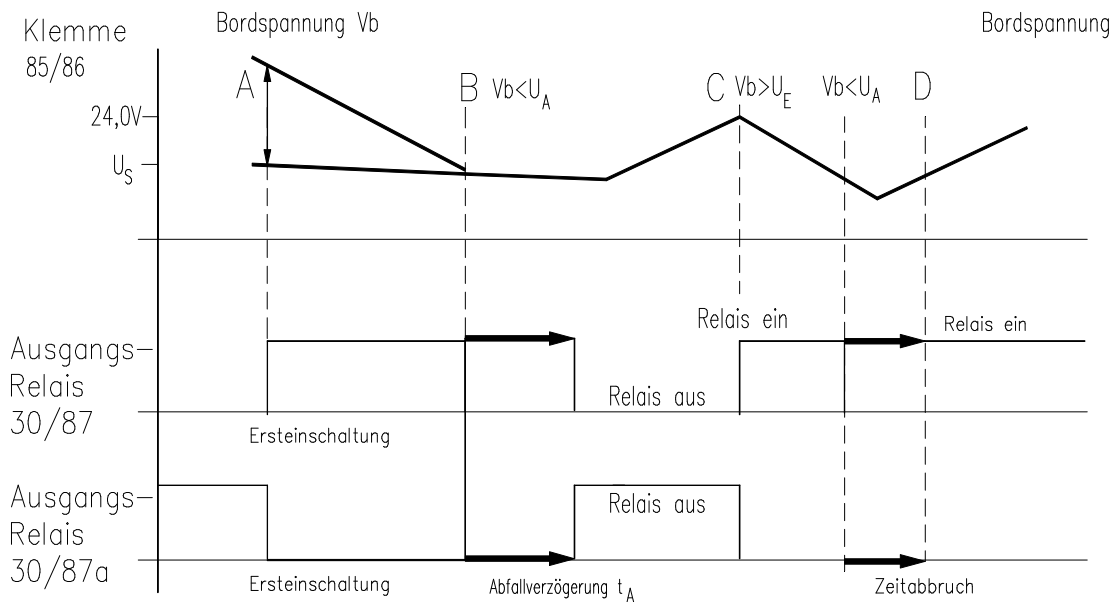


**Automobile relay, voltage controlled**

<b>Nominal voltage:</b>	12V or 24V DC
<b>Voltage range:</b>	7 to 12V DC or 18 to 34 V
<b>output:</b>	Potential free normal open contact
<b>Turn on current:</b>	10 A
<b>Turn off current:</b>	8 A
<b>Steady current/25° C:</b>	10 A
<b>Operating temperature:</b>	-25 to +70°C
<b>Storage temperature:</b>	-25 to +90°C
<b>dimensions:</b>	30 x 30 x 50mm
<b>connector:</b>	6,3 x 0,8 mm FASTON 5-pole



**Function example:**



- A Wird an den Unterspannungswächter eine Spannung über  $U_s$  angelegt (Ersteinschaltung), zieht das Relais sofort an: 30/87 zu; 30/87a offen.
- B Fällt die Bordspannung unter  $U_A$ , startet die Zeitstufe. Nach Ablauf von  $t_A$  fällt das Relais ab: 30/87 offen, 30/87a zu.
- C Steigt die Bordspannung über  $U_E$  zieht das Relais wieder an.
- D Fällt die Bordspannung unter  $U_A$  und steigt innerhalb von  $t_E$  wieder über  $U_A$ , wird die Zeitfunktion wieder zurückgesetzt. (Wichtig, z.B. bei Motorstart)

The relay is used to monitor the operation voltage when additional loads are switched, e.g. air conditioning, blowers, converters.

By connecting the operation voltage to terminal U1/U2 the relay locks as soon as the voltage is above of the start threshold  $U_s$ . When the voltage drops below the switch-off threshold  $U_A$ , the internal time function starts and the relays return to initial state after a delay time  $t_A$ .

When the operation voltage increases to the switch-on threshold  $U_E$ , the relay locks again after ending of the delay time  $t_E$ .

**Automobile relay, voltage controlled**

**Variationes:**

Order-no.	Function	$U_s$ Start-threshold	$U_A$ OFF-threshold	$U_E$ ON-threshold	$t_A$ delay time OFF-threshold	$t_e$ delay time ON-threshold
<b>0670.1.A00</b>	Undervoltage turn off  24 V with reclosing	> 22,7 V	< 21,5 V	> 26,0 V	30 sec.	1 sec.
<b>0670.2.A00</b>	Undervoltage turn off  24 V with reclosing	> 24,0 V	< 18,0 V	> 24,0 V	5 sec.	1 sec.
<b>0670.3.A00</b>	Undervoltage turn off  <i>24 V with reclosing</i>	> 23,0 V	< 21,5 V	> 23,0 V	1 sec.	1 sec.
<b>0670.4.A00</b>	Charge control  24 V <i>invers</i> with reclosing	< 27,0 V	> 27,0 V	<26,5 V	2 sec.	2 sec.
<b>0670.5.A00</b>	Voltage control  <i>24 V with reclosing</i>	> 24,5 V	< 22,0 V	> 24,5 V	10 sec.	10 sec.
<b>0670.6.A00</b>	Voltage control  <i>24 V with reclosing</i>	> 24,5 V	< 22,0 V	> 26,0 V	10 sec.	10 sec.
<b>0670.7.A00</b>	Undervoltage turn off  <i>24 V with reclosing</i>	> 24,0 V	< 22,0 V	> 24,0 V	30 sec.	1 sec.
<b>0670.8.A00</b>	Voltage control  <i>24V without reclosing</i>	> 23,0 V	< 21,5 V		3 sec.	
<b>0677.1.A00</b>	Voltage control  <i>12 V with reclosing</i>	> 11,7 V	< 10,5 V	> 13,0 V	30 sec.	1 sec.
<b>0677.2.A00</b>	Voltage control  <i>12 V without reclosing</i>	> 11,7 V	< 10,5 V	> 13,0 V	30 sec.	1 sec.
<b>0677.3.A00</b>	Voltage control  <i>12 V without reclosing</i>	> 11,7 V	< 10,5 V	> 13,0 V	3 sec.	1 sec.