

C6700 - C6702 with solid state output

Electronic safety relays with solid-state output C 67xx

- Solid-state outputs – no contacts – no wear
- Low weight & small size – Space and weight advantage
- Positively guided standard contactors operate as switching elements

C 67xx safety relays are solely used to monitor the sensors connected (e.g. limit switches resp. EMERGENCY-STOP-buttons) and actuators (positively guided standard contactors).

The basic unit C 6700 itself does not feature safe outputs. Only when the unit is used together with positively guided actuators (e.g. contactors B6, B7) the complete circuit fulfills up to category 3 to EN 954-1.

Us = 24VDC; Ue = 24VDC; Ie = 0.5ADC 13.

The safety relay C 6701 with solid-state outputs can be used directly to switch off connected devices up to category 3 or 4 to EN 954-1. Us = 24VDC; Ue = 24VDC; Ie = 1.5ADC 13.

The safety relay C 6702 with solid-state outputs can also be used to directly switch off connected devices up to category 3 to EN 954-1 and stop categories 0 and 1 at a width of 22.5 mm only.

Time delay settable from 0.05-3 or 0.5-30s. Us = 24VDC; Ue = 24VDC; Ie = 1.5ADC 13.

Type	Supply voltage V_c	Package unit piece	Weight 1 piece kg/lb	Catalog number	List Price
C 6700 C 6701 C 6702 C 6702	24VDC	1	0.150/0.33	1SAR510120R0003 1SAR511320R0003 1SAR543320R0003 1SAR513320R0003	Consult factory

Technical data

	C 6700	C 6701	C 6702
Permissible ambient temperature T_U Operation / storage Degree of protection acc. to EN 60 529 Rated insulation voltage V_i	-25...+60 °C / -40...+80 °C IP40, IP20 at terminals 50V		
Rated impulse withstand voltage V_{imp} Rated control supply voltage V_S Rated power consumption Operational voltage range Shock resistance (half-sine) acc. to IEC 60068 Weight Recovery time after EMERGENCY STOP Recovery time after power failure Release time after EMERGENCY STOP	500V 24VDC 1.5W 0.9...1.15 x V_S 8g/10ms 150g/0.33lb min. 20ms — < 30ms	2kV 24VDC 1.3W 0.9...1.15 x V_S 8g/10ms 150g/0.33lb min. 30ms 7 s min. 30ms	2kV 24VDC 1.3W 0.9...1.15 x V_S 8g/10ms 150g/0.33lb min. 30ms — 30ms / 0.05...3s or 0.5...30s adjustable
Recovery time after power failure Response time Response time monitored start Response time Auto-start Short circuit protection	max. 25ms — < 125ms < 250ms no fusing necessary	— max. 40ms — — no fusing necessary	— max. 40ms — — no fusing necessary

Utilization category acc. to IEC 60947-5-1:

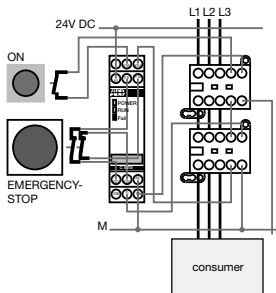
		Rated operational voltage V_e	Rated operational current I_e
C 6700	DC-13	24V	0.5A (per output, 60 °C)
C 6701	DC-13	24V	2.0A
C 6702	DC-13	24V	2.0A



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- Solid-state control of actuators, therefore no wear
- No contact failure at currents of 17V, 1mA
- Short circuit proof
- High switching frequencies
- 24VDC sensor supply
- Economical

Internal standard circuit diagram of a safe circuit in accordance to C 6700



Internal standard circuit diagram of safety relay C 6701 with solid-state output.

