



SRC30/EL

All-purpose safety emergency stop relay

Product Features:

- 3 non-delayed safety contacts
- 1 non-delayed auxiliary contact

Connection of:

- Emergency stop buttons
- Mechanical safety switches
- Non-contact safety switches
- Safety components with OSSD-Outputs
- Control: single or dual channel
- Feedback loop for external contactors or extension modules
- Cyclical monitoring of the output contacts
- LED indicator for power and status
- Automatic or manual start
- Short-circuit monitoring and ground fault monitoring
- Up to PL e, SIL 3, category 4
(EN ISO 13849-1 / EN IEC 62061 / EN 61508)

Technical Data:		
Power supply:	Operating voltage: Power consumption: Inrush current A1:	24 VDC \pm 10 % 2,6 W 5 A (approx. 250 μ s)
Pulse suppression (A1 / S12 / S14):	Switch-Off pulse / dark test: Switch -On pulse / light test:	max. 3 ms (pulse width) / 500 ms (pulse rate) max. 1 ms (pulse width) / 500 ms (pulse rate) Note: It must be ensured that any switch-on pulses (light test) sent by the signal generator do not lead to a short activation of the safety relay and should therefore basically be deactivated.
Contact configuration:	Number of NO contact: Number of NC contact:	3 NO (Safety contacts) 1 NC (Auxiliary contact)
Switching voltage:		Max. AC 250 V
Contact rating of safety contacts: (13-14, 23-24, 33-34) 6 switching cycles / min	AC: DC:	250 V, 2000 VA, 8 A for resistive load 250 V, 3 A für AC-15 30 V, 240 W, 8 A for resistive load 24 V, 3 A für DC-13
Thermal current I_{th}		Max. 5 A per contact (see total current limit curve)
Contact rating of auxiliary contact (41-42)	AC: DC:	250 V, 500 VA, 2 A for resistive load 30 V, 60 W, 2 A for resistive load
Minimum contact load:		5 V, 10 mA
External fuses:	NO contact: NC contact:	10 A gG 6 A gG
Max. switch-on delay:		< 50 ms
Max. switch-off delay:	Activation via:	A1 < 40 ms; S12 or S13/S14 < 20 ms
Recovery time:		< 500 ms
Wire width:		0,14 - 2,5 mm ²
Tightening moment:	Min.: Max:	0,5 Nm 0,6 Nm
Contact material:		AgSnO ₂
Service Life:		mech. approx. 1×10^7
Rated impulse withstand voltage:		2,5 kV (control voltage / contacts)
Dielectric strength:		4 kV (EN 60664-1)
Rated insulation voltage:		250 V
Degree of pollution / Overvoltage category		2 / 3 (EN 60664-1)
Conformity and standards:	In compliance with:	EN 60204-1 EN ISO 13849-1 EN IEC 62061 EN 61508 Parts 1-2 and 4-7 EN 81-20 EN 81-50
Housing:	Mounting: Protection: Weight:	DIN rail according to EN 60715 TH35 IP20 approx. 150g
Temperature range:	Ambient: Storage:	-15 °C ... +55 °C / +5 °F ... 131 °F -15 °C ... +85 °C / +5 °F ... 185 °F
Max. altitude:		\leq 2.000 m (above sea level)