

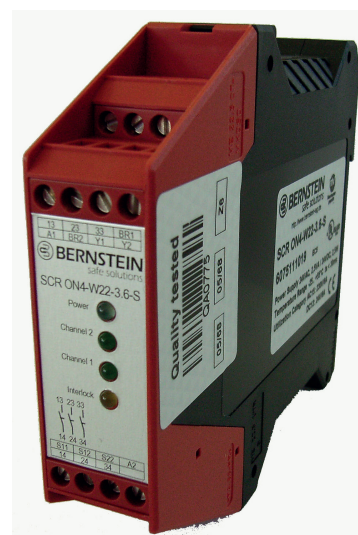
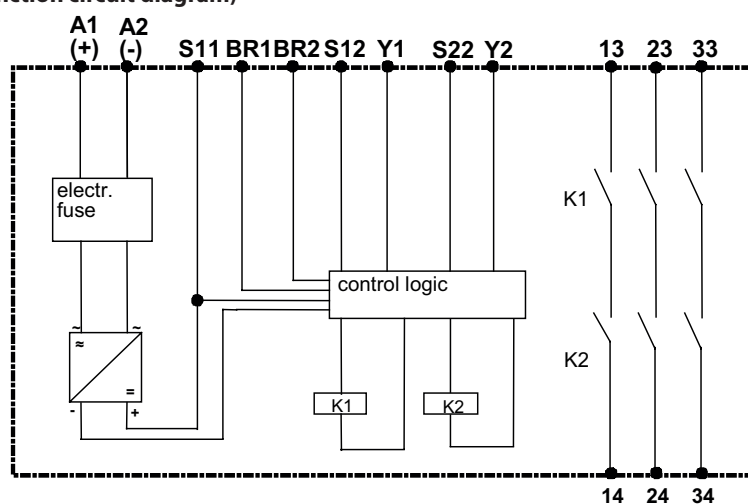
Safety Relay Combination

Series SCR

Description **SCR ON4-W22-3.6-S**

Article number **6075111020**

Assembly and function (function circuit diagram)



- A1, A2 connection operation voltage
- 13-14, 23-24, 33-34 safety circuits (N.O.)
- Y1-Y2 START-button
- S12, S22 inputs for the ESPE outputs
- BR1-BR2 bridge over BR1 and BR2 enables automatic START

Electrical Data

Supply voltage	U_e	24 V DC
Voltage range		0,9 ... 1,1 U_e
Power consumption appr.		2,5 W
Inrush current S12, S22		390 mA
Permanent current S12, S22		20 mA

Conductor data

conductor connection	2 x 2,5 mm ² solid wire 2 x 1,0 mm ² strand with wire end ferrule DIN VDE 46228
Max. conductor length (input circuit)	100 m each conductor
Conductor cross-section	2 x 1,5 mm ²
Capacity	150 nF/km
Resistance	11,7 Ohm/km

Contact data	
Contact configuration	3 N.O. contacts
Contact type	Relay forcibly guided contacts
Contact material	AgSnO ₂ flash gold or comparable material
Switching voltage	24 V DC / 240 V AC
Switching current	max. 6 A over 3 contacts
Utilization category	AC 15, U _e /I _e 230 / 240 V / 3 A DC 13, U _e /I _e 24 V / 2,5 A
Max. switching capacity	1500 VA (ohms load)
Mechanical life	10 ⁷ operations
Electrical life	10 ⁵ operations (DC 24V/2A) at pollution grade 2
Creepage and clearance distances (DIN VDE 0160)	Basis insulation: voltage category 3 Protective separation: voltage category 2
Contact protection	6,3 A brisk or 4 A inert DIN VDE 0660 part 200
Voltage on S11	24 V DC
Delay on deenergisation K1	< 30 ms

Mechanical data	
Enclosure material	Polyamide PA 6.6
Dimensions (W x H x D) in mm	22,5 x 114,5 x 99
Mounting	Click-fastening for DIN-Rail

Environmental data	
Operating temperature range	-25 °C ... +55 °C (UL +40 °C)
Degree of protection, terminals	IP 20 DIN VDE 0470 part 1
Degree of protection, enclosure	IP 40 DIN VDE 0470 part 1
Shock resistance N.O./N.C. contacts	5g, 33 Hz VDE 0160

EU Conformity	
	acc. to directive 2006/42/EG (Safety-of-Machinery-Directive)
	acc. to directive 2014/30/EU (EMC-Directive)

Approvals	
	TÜV type tested
	cUL _{US}

Certifications	
Tested in accordance with	EN ISO 13849-1
Achieved level/category	Performance Level e , Kat.4
MTTFd [years]	36,16 "high"
DC	99 % "high"
CCF	achieved