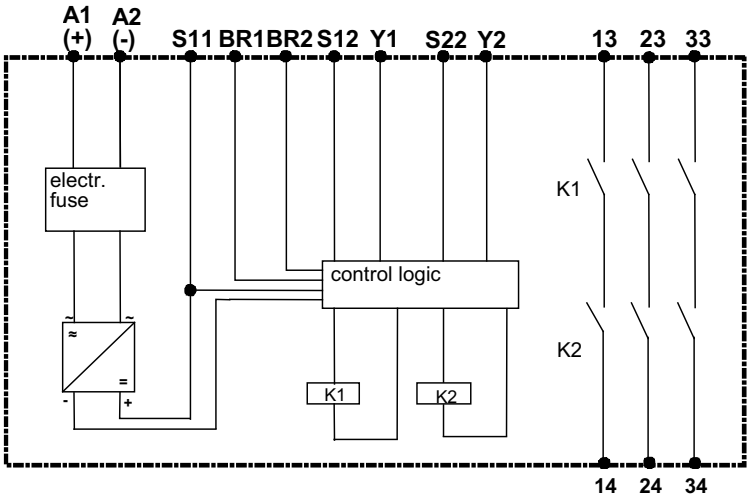
Safety Relay Combination
Series SCR

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 mm² solid wire 2 x 1,0 mm² strand with wire end ferrule DIN VDE 46228
Max. conductor length (input circuit)	100 m each conductor
Conductor cross-section	2 x 1,5 mm²
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
Switching current	6 A
Max. switching capacity	1500 VA (ohms load)
Mechanical life	10^7 operations
Electrical life	10^5 operations (DC 24V/2A)
Creapage and clearance distances (DIN VDE 0160)	at pollution grade 2 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
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)

Approvals	
	TÜV
	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

Technical modifications and errors excepted.
The technical datasheet corresponds to the technical state as of 2017-06-21 and will not be removed in case of changes.