

Product Overview

Relays with forcibly guided contacts



Relays	SIS 2	SIS 2 SEN	SIS 3	SIS 3 SEN	SIS 4	SIS 4 SEN	SIS 6	SIS 6 SEN	SIF 3	SIF 4	SIF 6	SGR 282 ZK	
Features	Small dimensions High shock resistance Large excitation voltage Low coil power loss High switching reliability	Small dimensions High shock resistance Very large excitation voltage Very low coil power loss High switching reliability	Small dimensions High shock resistance Large excitation voltage High switching reliability	Small dimensions High shock resistance Very large excitation voltage Very low coil power loss High switching reliability	High shock resistance Large excitation voltage Low coil power loss High switching reliability	High shock resistance Very large excitation voltage Very low coil power loss High switching reliability	Very small dimensions High shock resistance Large excitation voltage High switching reliability	Very small dimensions High shock resistance Very large excitation voltage High switching reliability	Very small dimensions High shock resistance Large excitation voltage High switching reliability	Extremely flat design Large switching current range Possible component installation under the relay	Extremely flat design Large switching current range Possible component installation under the relay	Extremely flat design Large switching current range Possible component installation under the relay	Extrusion-coated coil design suitable for use in ATEX areas High switching reliability
Number of Contacts	2	2	3	3	4	4	6	6	3	4	6	2/2	
Contact Material	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	
Type of Contact	Single contact with notched crown	Single contact with notched crown	Single contact with notched crown	Single contact with notched crown	Single contact with notched crown	Single contact with notched crown	Single contact with notched crown	Single contact with notched crown	Single contact with notched crown	Single contact with notched crown	Single contact with notched crown	Single contact with notched crown	
Coil Voltage	3 VDC - 60 VDC	3 VDC - 60 VDC	3 VDC - 110 VDC	3 VDC - 60 VDC	3 VDC - 110 VDC	3 VDC - 60 VDC	3 VDC - 110 VDC	3 VDC - 60 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC	
Coil Capacity ¹	270 mW	200 mW	600 mW	400 mW	500 mW	330 mW	660 mW	440 mW	600 mW	700 mW	660 mW	700 mW	
Switching Current Range	3 mA - 6 A	3 mA - 6 A	3 mA - 6 A	3 mA - 6 A	3 mA - 6 A	3 mA - 6 A	3 mA - 6 A	3 mA - 6 A	3 mA - 10 A	3 mA - 8 A	3 mA - 8 A	4 mA - 8 A	
Test Voltage Open Contact	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	
Test Voltage between Contacts	5000 Veff	5000 Veff	4000 Veff	4000 Veff	4000 Veff	4000 Veff	4000 Veff	4000 Veff	4000 Veff	4000 Veff	4000 Veff	4000 Veff	
Test Voltage Coil/Contact	2500 Veff	2500 Veff	2500 Veff	2500 Veff	4000 Veff (SIS222, SIS312 Var 2) 2500 Veff (SIS312)	4000 Veff (SIS222, SIS312 Var 2) 2500 Veff (SIS312)	2500 Veff	2500 Veff	4000 Veff	4000 Veff	4000 Veff	5000 Veff	
Protection	RT III	RT III	RT III	RT III	RT III	RT III	RT III	RT III	RT II	RT II	RT II	RT II	
Dimensions (external) in mm	L 29.2 W 16.6 H 16.5	L 29.2 W 16.6 H 16.5	L 29.2 W 16.6 H 16.5	L 29.2 W 16.6 H 16.5	L 48 W 16.6 H 16.5	L 48 B 16,6 H 16,5	L 48 B 16,6 H 16,5	L 48 B 16,6 H 16,5	L 33.7 W 29.4 H 10.9	L 41 W 29.4 H 10.9	L 53.6 W 33.5 H 10.9	L 30.2 W 12.7 H 25.6	
Approvals	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	
Options (see catalogue)	-	-	-	-	-	-	-	-	-	-	-	Page 29	
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¹ Reference temperature 20°C

² Between left and right contact side

⁴ Between control and output contacts

³ Between control contacts

⁵ Between output contacts

Product Overview

Relays with forcibly guided contacts



SGR 282 ZK Var	SIM 2	SIM 3	SIM 4	SLR 4	SIR 4	SIR 4 SEN	SIR 4 P	SIR 6	SIR 6 SEN	SIR 8	SIR 10	SIP 6
Extrusion-coated coil design suitable for use in ATEX areas	Extrusion-coated coil design suitable for use in ATEX areas	Extrusion-coated coil design suitable for use in ATEX areas	Extrusion-coated coil design suitable for use in ATEX areas	Powerful Small, horizontal design Large switching current range	Powerful Small design High switching reliability	Powerful Small design High switching reliability	Extremely powerful Small design For loads with a high surge current	Powerful Small design High switching reliability	Powerful Small design High switching reliability	Powerful High switching reliability Wide coil working range	Powerful High switching reliability Wide coil working range	Extremely powerful High switching reliability
High switching reliability	High switching reliability Extremely high leakage and creepage distances	High switching reliability Extremely high leakage and creepage distances	High switching reliability Extremely high leakage and creepage distances	High switching reliability	High switching reliability	High switching reliability Low coil power loss	High switching reliability	Contact assignment configurable	Low coil power loss Wide coil working range Contact assignment configurable	Contact assignment configurable	Contact assignment configurable	For the highest loads during 3-phase applications and DC loads
2	2	3	4	4	4	4	4	6	6	8	10	6
AgCuNi	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂
Single contact with notched crown	Crest contact	Crest contact	Crest contact	Crest contact	Crest contact	Crest contact	Single contact	Crest contact	Crest contact	Crest contact	Crest contact	Single contact
3 VDC - 110 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC	3 VDC - 60 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC	3 VDC - 60 VDC	3 VDC - 220 VDC	3 VDC - 220 VDC	3 VDC - 220 VDC
700 mW	500 mW	750 mW	1000 mW	600 mW	600 mW	360 mW	750 mW	750 mW	500 mW	1300 mW	1300 mW	1300 mW
4 mA - 8 A	10 mA - 8 A	10 mA - 8 A	10 mA - 8 A	10 mA - 10 A	10 mA - 10 A	10 mA - 10 A	5 mA - 12 A	10 mA - 10 A	10 mA - 10 A	10 mA - 10 A	10 mA - 10 A	5 mA - 16 A
1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff	1500 Veff
4000 Veff	4000 Veff	2500 Veff 4000 Veff ²	2500 Veff 4000 Veff ²	4000 Veff ³ 4000 Veff ⁴ 5000 Veff ⁵	2500 Veff ³ 5000 Veff ⁴ 4000 Veff ⁵	2500 Veff ³ 5000 Veff ⁴ 4000 Veff ⁵	2500 Veff ³ 5000 Veff ⁴ 4000 Veff ⁵	2500 Veff ³ 5000 Veff ⁴ 4000 Veff ⁵	2500 Veff ³ 5000 Veff ⁴ 4000 Veff ⁵	4000 Veff	4000 Veff	2500 Veff ³ 5000 Veff ⁴ 4000 Veff ⁵
5000 Veff	5000 Veff	5000 Veff	5000 Veff	2500 Veff	2500 Veff	2500 Veff	2500 Veff	2500 Veff	2500 Veff	5000 Veff	2500 Veff	2500 Veff
RT II	RT II	RT II	RT II	RT II	RT II	RT II	RT II	RT II	RT II	RT II	RT II	RT II
L 30.2 W 12.7 H 25.6	L 27.4 W 12.5 H 26.2	L 36.1 W 12.5 H 26.2	L 36.1 W 12.5 H 26.2	L 53.3 W 33.4 H 16.5	L 46.4 W 16 H 30.7	L 46.4 W 16 H 30.7	L 46.4 W 16 H 30.7	L 58.9 W 16 H 30.7	L 58.9 W 16 H 30.7	L 85.5 W 20 H 32	L 85.5 W 20 H 32	L 84.6 W 20 H 32
UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV	UL, cUL, TÜV
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