

## **Product Overview**

## Relays with forcibly guided contacts



















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Relays	SIS 2 / SIS 2 SEN	SIS 3 / SIS 3 SEN	SIS 4 / SIS 4 SEN	SIS 6 / SIS 6 SEN	SISF 3	SIF 3	SIF 4	SIF 6	SGR 282 ZK	SGR 282 ZK Variants
Features	Small dimensions High shock resistance	Small dimensions High shock resistance	High shock resistance Large or very large excitation voltage range Low or very low coil power High contact	Very compact design High shock resistance Large or very large excitation voltage range High contact	Very flat design Small dimen- sions Wide excitation voltage range Low coil power High contact	Extremely flat design Wide switching current range	Extremely flat design Wide switching current range	Extremely flat design Wide switching current range	Overmoulded coil design also suitable for ATEX applica- tions	Overmoulded coil design also suitable for ATEX applica- tions
	Large or very large excitation voltage range Low or very low	Large or very large excitation voltage range Very low coil				SMD placement under relay possible	SMD placement under relay possible	SMD placement under relay possible	High contact reliability	High contact reliability
	coil power High contact reliability	power with sensitive coil High contact reliability	reliability	reliability	reliability					
Number of contacts	2	3	4	6	3	3	4	6	2/2	2
Contact material	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi	AgCuNi
Contact type (output contacts)	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 - 110 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC	5 VDC - 110 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC	3 VDC - 110 VDC
Coil power <sup>1</sup>	200 mW - 270 mW	400 mW - 600 mW	330 mW - 500 mW	440 mW - 660 mW	700 mW	600 mW	700 mW	660 mW	700 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 - 10 A	3 mA - 8 A	3 mA - 8 A	4 mA - 8 A	4 mA - 8 A
Test voltage open contact	1500 V <sub>ms</sub>	1500 V <sub>ms</sub>	1500 V <sub>rms</sub>	1500 V <sub>rms</sub>	1500 V <sub>rms</sub>	1500 V <sub>rms</sub>	1500 V <sub>rms</sub>	1500 V <sub>rms</sub>	1500 V <sub>rms</sub>	1500 V <sub>rms</sub>
Test voltage Between contacts	5000 V <sub>rms</sub>	4000 V <sub>rms</sub>	4000 V <sub>rms</sub>	4000 V <sub>rms</sub>	$4000~\mathrm{V_{rms}}$	4000 V <sub>rms</sub>	4000 V <sub>rms</sub>	4000 V <sub>rms</sub>	4000 V <sub>rms</sub>	4000 V <sub>rms</sub>
Test voltage coil/contcact	2500 V <sub>rms</sub>	2500 V <sub>rms</sub>	4000 V <sub>ms</sub> (SIS222, SIS312 KV2) 2500 V <sub>ms</sub> (SIS312)	2500 V <sub>rms</sub>	2500 V <sub>rms</sub>	4000 V <sub>rms</sub>	4000 V <sub>rms</sub>	4000 V <sub>rms</sub>	5000 V <sub>rms</sub>	5000 V <sub>rms</sub>
Protection class	RT III	RT III	RT III	RT III	RT III	RTII	RT II	RT II	RT II	RT II
Dimensions in mm (external)	L 29,2 B 16,6 H 16,5	L 29,2 B 16,6 H 16,5	L 48 B 16,6 H 16,5	L 48 B 16,6 H 16,5	L 29,2 B 16,6 H 13	L 33,7 B 29,4 H 10,9	L 41 B 29,4 H 10,9	L 53,6 B 33,5 H 10,9	L 30,2 B 12,7 H 25,6	L 30,2 B 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
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¹reference temperature 20°C

<sup>2</sup>between left and right contact side <sup>3</sup>between control contacts <sup>4</sup>between control and output contacts <sup>5</sup>between output contacts

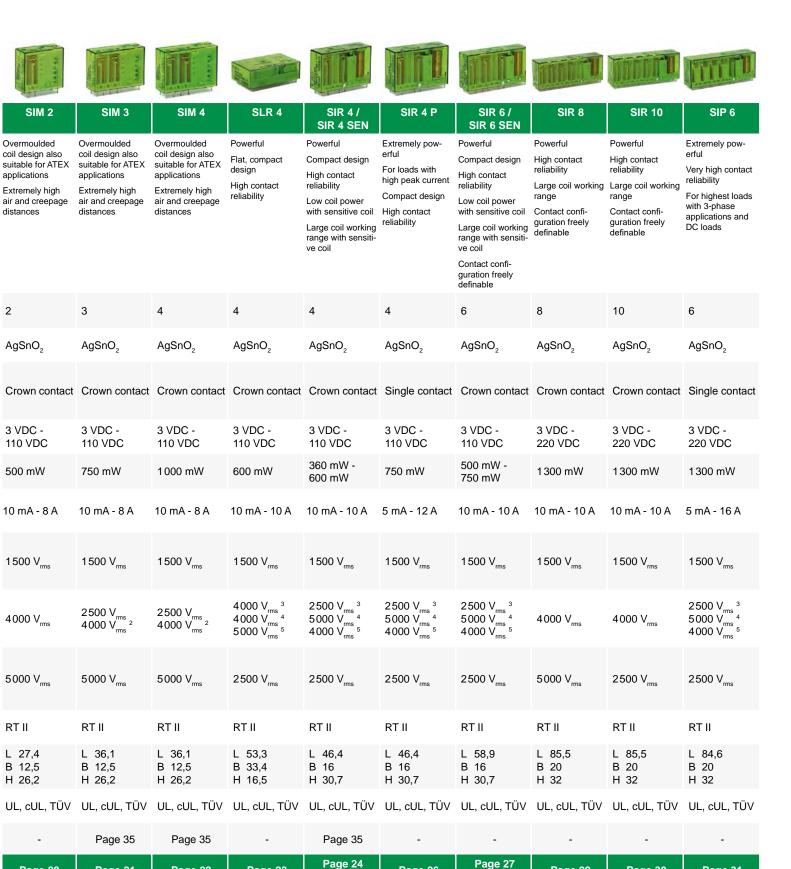
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