

	ESR12NP-230V +8..230V UC <sup>a)</sup>	ESR12M-8..230V UC <sup>b)</sup> ER12-100-8..230V UC <sup>a)</sup> ER12-200-8..230V UC <sup>a)</sup> ER12-110-8..230V UC <sup>a)</sup> ER12-001-8..230V UC <sup>a)</sup> ER12-002-8..230V UC <sup>a)</sup>	ER12-002-230V ER61-8..230V UC <sup>a)</sup> ESR61NP-8..230V UC <sup>b)</sup> ESR61M 8..230V UC <sup>a)</sup> ETR61NP-230V	ER12-001- 230V ER61-230V	KR09 -12V UC, -24V UC, -230V
<b>Contacts</b>					
Contact material/contact gap	AgSnO <sub>2</sub> /0,5 mm				
Spacing of control connections/contact	3 mm	6 mm	3 mm ETR61NP: 6 mm	6 mm ER61: 3 mm	6 mm
Spacing of control connections C1-C2 or A1-A2/contact	6 mm	6 mm	ESR61NP+M: 6 mm	–	–
Test voltage contact/contact	–	ESR12M: 4000V ER12-200/110: 2000V	ER12-002: 2000V ESR61M: 2000V	–	–
Test voltage control connections/contact Test voltage C1-C2 or A1-A2/contact	2000 V 4000 V	4000V –	2000 V ESR61NP+M+ETR61NP: 4000V	4000 V –	4000 V –
Rated switching capacity	16 A/250 V AC	16 A/250 V AC	10 A/250 V AC	16 A/250 V AC	6 A/250 V AC
Incandescent lamp and halogen lamp load 230 V <sup>1)</sup>	3600 W	2000 W	2000 W	3600 W	500 W
Fluorescent lamp load with KVG in lead- lag circuit or non compensated	3600 VA	1000 VA	1000 VA	1600 VA	600 VA
Fluorescent lamp load with KVG shunt-compensated or with EVG	1000 VA	500 VA	500 VA	500 VA	300 VA
Compact fluorescent lamps with EVG and energy saving lamps	30x7 W 20x20 W	I <sub>on</sub> ≤ 70A/ 10ms <sup>2)</sup>	I <sub>on</sub> ≤ 70A/10ms <sup>2)</sup> ESR61NP: 15x7 W, 10x20 W	I <sub>on</sub> ≤ 70A/ 10ms <sup>2)</sup>	52 W
Max. switching current DC1: 12 V/24 V DC	–	8 A	not ESR: 8 A	8 A	6 A
Life at rated load, cos φ = 1 or for incandescent lamps 1000 W at 100/h	> 10 <sup>5</sup>	> 10 <sup>5</sup>	> 10 <sup>5</sup>	> 10 <sup>5</sup>	> 10 <sup>5</sup>
Life at rated load, cos φ = 0,6 and 100/h	> 4 x 10 <sup>4</sup>	> 4 x 10 <sup>4</sup>	> 4 x 10 <sup>4</sup>	> 4 x 10 <sup>4</sup>	–
Max. operating cycles	10 <sup>3</sup> /h	10 <sup>3</sup> /h	10 <sup>3</sup> /h, ER12: 10 <sup>4</sup> /h	10 <sup>4</sup> /h	10 <sup>4</sup> /h
Contact position indication	LED (not series 61)				
Terminal cross-section	12 mm <sup>2</sup> , series 61: clamping screw M3				
Maximum conductor cross-section	6 mm <sup>2</sup> , series 61: 2,5 mm <sup>2</sup>				
Screw head	slotted/Phillips, pozidriv, series 61: slotted				
Shock-hazard protection (on the device)	VDE 0106 part 100				
<b>Electronics</b>					
Time on	100 %	100 %	100 %	100 %	100 %
Max./min. temperature at mounting location	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C
Stand by loss (active power)	0,5 W	only ESR12M: 0,5 W	only ESR61NP + ETR61NP: 0,5 W	–	–
Control current 230V control input local ±20%	10 mA	–	10 mA, ESR61M: –	10 mA	–
Control current universal control voltage all control voltages mA ± 20%	–	4 (not ESR12M)	ER12+ER61: 2, ESR61M: 4	–	–
Control current at 8/12/24/230V (<10s) mA ± 20%	2/4/9/5(100)	only ESR12M: 0,1/0,1/0,2/1	only ESR61NP: 2/4/9/5(100) only ETR61NP: 10 mA/24 V DC	–	–/15/10/11
Max. parallel capacitance (approx. length) of control lead at 230V AC	3 nF (10 m)	0,5 nF (2 m) ESR12M: ⊖ 0,06 μF (200 m)	⊖ 0,06 μF (200 m) ER61+ESR61M: 0,5 nF (2 m)	⊖ 0,06 μF (200 m)	⊖ 0,06 μF (200 m)

<sup>a)</sup> Bistable relay as relay contact. The relay contact can be open or closed when putting into operation. It will be synchronised at first operation. <sup>b)</sup> Bistable relay as relay contact. The switched consumer may not be connected to the mains before the automatic synchronisation after installation has terminated.

<sup>1)</sup> For lamps with 200 W max. <sup>2)</sup> A 40-fold inrush current must be expected for electronic ballast devices. For steady loads of 1200 W or 600 W use the current-limiting relay SBR12 or SBR61. Product group G, page G3.