

Contacts	ES12 ^{a)}	ESR12NP	ESR12M ^{b)}	ES12Z ^{b)} ES12Z-4x ^{b)}	ES61 ^{a)} ESR61M ^{a)}	ESR61NP ^{b)}
Contact material/contact gap	AgSnO ₂ /0,5 mm	AgSnO ₂ /0,5 mm	AgSnO ₂ /0,5 mm	AgSnO ₂ /0,5 mm	AgSnO ₂ /0,5 mm	AgSnO ₂ /0,5 mm
Spacing of control connections/contact control connections C1-C2 or A1-A2/contact	6 mm –	3 mm 6 mm	6 mm –	6 mm –	3 mm ESR61M: 6 mm	3 mm 6 mm
Test voltage contact/contact	ES12-200/110: 2000 V	–	4000 V	4000 V	ESR61M: 2000 V	–
Test voltage control connection/contact Test voltage C1-C2 or A1-A2/contact	4000 V –	2000 V 4000 V	4000 V –	4000 V –	2000 V 4000 V	2000 V 4000 V
Rated switching capacity	16 A/250 V AC	16 A/250 V AC	16 A/250 V AC	16 A/250 V AC	10 A/250 V AC	10 A/250 V AC
Incandescent lamp and halogen lamp load 230 V ¹⁾	2000 W	3600 W	2000 W	2000 W	2000 W	2000 W
Fluorescent lamp load with KVG in lead-lag or non compensated	1000 VA	3600 VA	1000 VA	1000 VA	1000 VA	1000 VA
Fluorescent lamp load with KVG shunt-compensated or with EVG	500 VA	1000 VA	500 VA	500 VA	500 VA	500 VA
Compact fluorescent lamp with EVG and energy saving lamps	I on ≤ 70 A/ 10 ms ²⁾	30 x 7 W 20 x 20 W	I on ≤ 70 A/ 10 ms ²⁾	I on ≤ 70 A/ 10 ms ²⁾	I on ≤ 70 A/ 10 ms ²⁾	15 x 7 W 10 x 20 W
Max. switching current DC1: 12 V/24 V DC	8 A	–	8 A	8 A	8 A	–
Life at rated load, cos φ = 1 resp. for incandescent lamps 1000 W at 100/h	> 10 ⁵	> 10 ⁵	> 10 ⁵	> 10 ⁵	> 10 ⁵	> 10 ⁵
Life at rated load, cos φ = 0,6 and 100/h	> 4 x 10 ⁴	> 4 x 10 ⁴	> 4 x 10 ⁴	> 4 x 10 ⁴	> 4 x 10 ⁴	> 4 x 10 ⁴
Max. operating cycles	10 ³ /h	10 ³ /h	10 ³ /h	10 ³ /h	10 ³ /h	10 ³ /h
Terminal cross-section 2-fold/3-fold	12 mm ² / –	12 mm ² / –	12 mm ² / 7 mm ²	12 mm ² / 7 mm ²	M3	M3
Maximum conductor cross-section 2-fold/3-fold	6 mm ² / –	6 mm ² / –	6 mm ² / 4 mm ²	6 mm ² / 4 mm ²	2,5 mm ²	2,5 mm ²
Screw head	slotted/Phillips, pozidriv				slotted	slotted
Shock-hazard protection (on the device)	VDE 0106 part 100				–	–
Electronic						
Time on (also for central on/off)	100 %	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	+50°C/-20°C
Standby loss (active power)	–	0,5 W	0,5 W	0,5 W	–	0,5 W
Control current 230 V-control input local	25 mA	10 mA	–	–	25 mA ESR61M: –	10 mA
Control current universal control voltage all control voltages (< 5 s) ± 20 % 8/12/24/230 V (< 10 s) ± 20 %	– 1,5 mA (15 mA) –	– – 2/4/9/5 (100) mA	– – 0,1/0,1/ 0,2 / 1 mA	– – 0,6/1/2/10 mA	– 1,5 mA (15 mA) ESR61M: 4 mA	– – 2/4/9/5 (100) mA
Control current central 8/12/24/230 V (< 10 s) ± 20 %	–	–	–	2/4/9/5 (100) mA	–	–
Max. parallel capacitance (approx. length) of single control lead at 230 V AC	⊕ 0,3 μF (1000 m) A1 - A2: 0,06 μF (200 m)	0,3 μF (1000 m) –	0,3 μF (1000 m) –	0,3 μF (1000 m) –	0,3 μF (1000 m) ESR61M: 0,5 nF (2 m)	⊕ 0,06 μF (200 m) A1 - A2: 0,3 μF (1000 m)
Max. parallel capacitance (approx. length) of central control lead at 230 V AC	–	–	–	0,9 μF (3000 m)	–	–

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

¹⁾ For lamps with 200 W max. ²⁾ 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.