

| Contacts | S09/S12/SS12 | S91/S81 | XS12 |
|--|--|---------------------------------|--|
| Contact material/contact gap | AgSnO ₂ /3 mm | AgSnO ₂ /2 mm | AgSnO ₂ /3 mm ¹⁾ |
| Spacing of control connections/contact | > 6 mm | > 6 mm | > 6 mm |
| Test voltage contact/contact | 2000 V | 2000 V | 2000 V |
| Test voltage control connections/contact | 4000 V | 4000 V | 4000 V |
| Rated switching capacity | 16 A/250 V AC 10 A/400 V AC | 10 A/250 V AC 6 A/400 V AC | 25 A/250 V AC 16 A/400 V AC |
| Incandescent lamp and halogen lamp load ²⁾ 230 V | 2300 W | 2300 W | 2300 W |
| Fluorescent lamp load with KVG* in lead-lag circuit or non compensated | 2300 VA | 2300 VA | 3600 VA |
| Fluorescent lamp load with KVG* shunt-compensated or with EVG* | 500 VA | 500 VA | 1000 VA |
| Compact fluorescent lamps with EVG* and energy saving lamps ESL | I on ≤ 140 A/10 ms ³⁾ | I on ≤ 70 A/10 ms ³⁾ | I on ≤ 140 A/10 ms ³⁾ |
| HQL and HQL non compensated | 500 W | – | 500 W |
| Max. switching current DC1: 12V/24V DC | 8 A | 8 A | 12 A |
| Life at rated load cos φ = 1 or incandescent lamps 1000 W at 100/h | > 10 ⁵ | > 10 ⁵ | > 10 ⁵ |
| Life at rated load, cos φ = 0.6 at 100/h | > 4 x 10 ⁴ | > 4 x 10 ⁴ | > 4 x 10 ⁴ |
| Max. operating cycles | 10 ³ /h | 10 ³ /h | 10 ³ /h |
| Switch position indication | yes | yes | yes |
| Manual control | yes | yes | yes |
| Maximum conductor cross-section | 6 mm ² | 4 mm ² | 6 mm ² |
| Two conductors of same cross-section | 2.5 mm ² | 1.5 mm ² | 2.5 mm ² |
| Screw head | slotted/croshead, pozidriv | slotted/croshead, pozidriv | slotted/croshead, pozidriv |
| Type of enclosure/terminals | IP50/IP20 | IP50/IP20 | IP50/IP20 |
| Solenoid | | | |
| Time on at rated voltage 1- and 2-pole, without S09 | 100% ⁴⁾ | 100% | 100% ⁴⁾ |
| Time on at rated voltage 4-pole as well as S09 | impulse control | – | impulse control |
| Max./min. temperature at mounting location | +50°C/-5°C | +50°C/-5°C | +50°C/-5°C |
| Control voltage range | 0.9 to 1.1 x rated voltage | 0.9 to 1.1 x rated voltage | 0.9 to 1.1 x rated voltage |
| Coil power loss AC+ DC ± 20% | 1- and 2-pole 5 - 6 W; 4-pole 12 - 15 W | 5 W | 1- and 2-pole 5 - 6 W; 4-pole 12 - 15 W |
| Min. command duration | 50 ms | 50 ms | 50 ms |
| Max. parallel capacitance (length) of single control lead at 230 V AC | 0.06 μF (approx. 200 m) | 0.06 μF (approx. 200 m) | 0.06 μF (approx. 200 m) |
| Max. voltage induced at the control inputs | 0.2 x rated voltage | 0.2 x rated voltage | 0.2 x rated voltage |
| Glow lamps in parallel with the 230 V control switches | 5 mA | 5 mA | 5 mA |
| With 1 μF/250 V AC capacitor in parallel with coil | 10 mA | 10 mA | 10 mA |
| With 2.2 μF/250 V AC capacitor in parallel with coil | 15 mA | 15 mA | 15 mA |

* EVG = electronic ballast units; KVG = conventional ballast units

¹⁾ Contact distance of the NC contacts 1.2 mm.

²⁾ Contact spacing of NC contacts 1.2 mm.

³⁾ A 40-fold inrush current must be calculated for electronic ballast devices. For steady loads of 1200 W or 600 W use the current-limiting relay SBR12 or SBR61. See chapter 14, page 14-8.

⁴⁾ Whenever several impulse switches are continuously energised make sure there is adequate ventilation and, in addition, a ventilation clearance of approx. half a module. Use the DS12 spacer as necessary.

To comply with DIN VDE 0100-443 and DIN VDE 0100-534, a Type 2 or Type 3 surge protection device (SPD) must be installed.