

Contacts	S09 / S12	S91 / S81	XS12
Contact material/contact gap	AgSnQ / 3 mm	AgSnQ / 2 mm	AgSnQ / 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 HQI 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 / crosshead, pozidriv	slotted / crosshead, pozidriv	slotted / crosshead, 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 mm²⁾ Contact spacing of NC contacts 1.2 mm³⁾ 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. Product group G, page G4.⁴⁾ Whenever several impulse switches are continuously energised make sure there is adequate ventilation and, in addition, a ventilation rate of approx. half a module. Use the D52 spacer as necessary.