

Technical data electromechanical impulse switches

	CE	CE	CE
Contacts	XS12	S09/S12	S81/S91
Contact material/contact gap	3 mm/AgSnO ₂ ¹⁾	3 mm/AgSnO ₂	2 mm/AgSnO ₂
Spacing of control connections/contact	> 6 mm	> 6 mm	> 6 mm
Test voltage contact to contact	2000V	2000V	2000V
Test voltage contact to solenoid	4000V	4000V	4000V
Rated switching capacity	25 A/250V AC, 16 A/400V AC	16 A/250V AC, 10 A/400V AC	10 A/250V AC, 6 A/400V AC
Incandescent lamp and halogen lamp load 230V ²⁾	3600W	2300W	2300W
Fluorescent lamp load with KVG in lead-lag or non compensated	5500VA	3500VA	2300VA
Fluorescent lamp load with KVG shunt-compensated or with EVG	1000VA	500VA	500VA
Compact fluorescent lamp with EVG and energy saving lamps	I on ≤ 140A/10ms ³⁾	I on ≤ 140A/10ms ³⁾	I on ≤ 70A/10ms ³⁾
HQL and HQL non compensated	500W	500W	–
Max. switching current DC1: 12V/24V DC	12 A	8A	8A
Life at rated load for incandescent lamps 1000W and 100/h	> 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
Max. operating cycles	10 ³ /h	10 ³ /h	10 ³ /h
Switch position indication	yes	yes	yes
Manual control	yes	yes	yes
Terminal cross-section	12 mm ²	12 mm ²	6 mm ²
Maximum conductor cross-section	6 mm ²	6 mm ²	2.5 mm ²
Screw head	slotted /Phillips, pozidriv		
Shock-hazard protection (on the device)	VDE 0106 part 100	VDE 0106 part 100	VDE 0106 part 100
Solenoid			
Time on at rated voltage 1- and 2-pole	100% ⁴⁾	100% ⁴⁾	100% ⁴⁾
Time on at rated voltage 3- and 4-pole max. continuous excitation of the coil	impulse control 60s	impulse control 60s	
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 Unenn	0.9 to 1.1 x Unenn	0.9 to 1.1 x Unenn
Coil power loss AC+ DC ±20%	1- + 2-p. 5 - 6W; 3- + 4-p. 12-15W	1- + 2-p. 5 - 6W; 3- + 4-p. 12-15W	5W
Min. command duration	50ms	50ms	50ms
Max. parallel capacitance (length) of single control lead at 230V AC	0.06 μF (approx. 200m)	0.06 μF (approx. 200m)	0.06 μF (approx. 200m)
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 230V control switches	5 mA	5 mA	5 mA
With 1 μF/250V AC capacitor in parallel with coil	10 mA	10 mA	10 mA
With 2.2 μF/250V AC capacitor in parallel with coil	15 mA	15 mA	15 mA
Compliance with	EN 60669	EN 60669	EN 60669

¹⁾ Contact spacing of NC contacts 1,2mm. ²⁾ For lamps with 200W max. ³⁾ A 40-fold inrush current must be calculated for electronic ballast devices. For steady loads of 1200W or 600W use the current-limiting relay SBR12 or SBR61. Product group G, page G8. ⁴⁾ Whenever several impulse switches are continuously energised make sure there is adequate ventilation as a function of the calculated power loss and, in addition, a ventilation clearance of approx. half a module. Use the DS12 spacer as necessary.