

Technical data mains disconnection relays, current relay and mains monitoring relay

	CE	CE	CE
Contacts	NR12	FR12, AR12NP	FR61.1
Contact material	AgSnO ₂	AgSnO ₂	AgSnO ₂
Contact gap	0.5 mm	0.5 mm	0.5 mm
Spacing of control connections/contact	> 6 mm	-, AR12NP: > 6 mm	-
Test voltage contact to contact	-, NR12-002: 2000V	-	-
Test voltage control connection to contact	4000V	AR12NP: 4000V	-
Rated switching capacity	10A/250V AC	16A/250V AC	10A/250V AC
Incandescent lamp and halogen lamp load 230V ¹⁾	1600 W	3600 W	1000 W
Fluorescent lamp with KVG in lead-lag circuit or non compensated	1600 VA	3600 VA	1000 VA
Fluorescent lamp with KVG shunt-compensated or with EVG	500 VA	1000 VA	500 VA
Compact fluorescent lamps with EVG and energy saving lamps	I _{on} ≤ 70A/10ms ²⁾	I _{on} ≤ 70A/10ms ²⁾ AR12NP: 30x70W, 20x20W	I _{on} ≤ 70A/10ms ²⁾
Max. switching current DC1: 12V/24V DC	8 A	-	-
Life at rated load, cos φ = 1 and 100/h	>10 ⁵	>10 ⁵	>10 ⁵
Life for incandescent lamps 1000 W 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 ⁴ /h	10 ⁴ /h	10 ⁴ /h
Switching position indication/voltage indication	LED	LED	-
Terminal cross-section	12 mm ²	12 mm ²	M3
Maximum conductor cross-section	6 mm ²	6 mm ²	2.5 mm ²
Screw head	slotted/Phillips, pozidriv	slotted/Phillips, pozidriv	slotted
Shock-hazard protection (on the device)	VDE 0106 part 100	VDE 0106 part 100	VDE 0106 part 100
Electronics			
Time on	100%	100%	100%
Max./min. temperature at mounting location	+ 50 °C/- 20 °C	+ 50 °C/- 20 °C	+ 50 °C/- 20 °C
Control voltage range	180-250V/50-60Hz	0.9 to 1.1 x rated voltage	0.9 to 1.1 x rated voltage
Stand by loss (activ power)	0.8 W	0.8 W	0.8 W
Max. parallel capacitance (length) of control lead	0.06 μF (approx. 200m)	0.06 μF (approx. 200m)	0.06 μF (approx. 200m)
Compliance with	EN 61000-6-3, EN 61000-6-1 and EN 60669		

¹⁾ Applies to lamps with max. 200 W

²⁾ A 40-fold inrush current must be expected for electronic ballast devices.