

Contacts	BZR12DDX	NR12	AR12DX/FR12	FR61
Contact material	AgSnO <sub>2</sub> /0.5 mm	AgSnO <sub>2</sub> /0.5 mm	AgSnO <sub>2</sub> /0.5 mm	AgSnO <sub>2</sub> /0.5 mm
Spacing of control connections/contact	3 mm	>6 mm	-, AR12DX: >6 mm	-
Test voltage contact to contact	2000V	-, NR12-002: 2000V	-	-
Test voltage control connection to contact	-	4000V	-, AR12DX: 4000V	-
Rated switching capacity	10A/250V AC	10A/250V AC	16A/250V AC	10A/250V AC
Incandescent lamp and halogen lamp load <sup>1)</sup> 230V, I on ≤ 70A/10ms	2000W	2000W	2300W	1000W
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	1000VA	1000VA	1000VA	1000VA
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	500VA	500VA	1000VA	500VA
Compact fluorescent lamps with EVG* and energy saving lamps ESL	15x7W, 10x20W <sup>3)</sup>	I on <_ 70A/10ms <sup>2)</sup>	I on <_ 70A/10ms <sup>2) 3)</sup> AR12DX: 15x7W, 10x20W <sup>3)</sup>	I on <_ 70A/10ms <sup>2)</sup>
230 V LED lamps	up to 200 W <sup>5)</sup> I on ≤ 120A/5 ms	up to 200 W <sup>5)</sup> I on ≤ 30A/20ms	up to 200 W <sup>5)</sup> I on ≤ 30A/20ms	up to 200 W <sup>5)</sup> I on ≤ 30A/20ms
Max. switching current DC1: 12V/24V DC	8A	8A	-	-
Life at rated load, cos φ = 1 at 100/h and incandescent lamps 1000W at 100/h	>10 <sup>5</sup>	>10 <sup>5</sup>	>10 <sup>5</sup>	>10 <sup>5</sup>
Life at rated load, cos φ = 0.6 at 100/h	> 4x10 <sup>4</sup>	> 4x10 <sup>4</sup>	> 4x10 <sup>4</sup>	> 4x10 <sup>4</sup>
Max. operating cycles	10 <sup>3</sup> /h	10 <sup>3</sup> /h	10 <sup>3</sup> /h	10 <sup>3</sup> /h
Switching position indication/voltage indication	Display	LED	LED	-
Maximum conductor cross-section	6 mm <sup>2</sup>	6 mm <sup>2</sup>	6 mm <sup>2</sup>	4 mm <sup>2</sup>
Two conductors of same cross-section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>
Screw head	slotted/crosshead, pozidriv	slotted/crosshead, pozidriv	slotted/crosshead, pozidriv	slotted/crosshead
Type of enclosure/terminals	IP50/IP20	IP50/IP20	IP50/IP20	IP30/IP20
<b>Electronics</b>				
Time on	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
Control voltage range	0.9 bis 1.1xUnenn	180-250V/50-60Hz	0.9 to 1.1xrated voltage	0.9 to 1.1xrated voltage
Stand by loss (active power) 230V	0.5W	0.8W	0.8W	0.8W
Stand by loss (active power) 12V <sup>4)</sup>	0.05W	-	-	-
Max. parallel capacitance (length) of control lead	0.06 μF (200m)	0.06 μF (200m)	0.06 μF (200m)	0.06 μF (200m)

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

<sup>1)</sup> Applies to lamps with max. 150 W. <sup>2)</sup> A 40-fold inrush current must be expected for electronic ballast devices. <sup>3)</sup> When using DX types close attention must be paid that zero passage switching is activated! <sup>4)</sup> Standby loss at 24V approx. two times greater than at 12V. <sup>5)</sup> Usually applies for dimmable energy saving lamps and dimmable 230V LED lamps. Due to differences in the lamps electronics, there may be a restriction on the maximum number of lamps; especially if the connected load is very low (for 5W-LEDs).

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.