

	MFZ12DDX^{b)} MFZ12DX^{b)} RVZ/AVZ/TGI/ EAW12DX^{b)}	MFZ12NP PTN12	MFZ12-230V A2Z12-UC	MFZ61DX^{b)}	S2U12DDX^{b)}	MFZ12PMD
Contacts						
Contact material/contact gap	AgSnO ₂ / 0.5 mm	AgSnO ₂ / 0.5 mm	AgSnO ₂ / 0.5 mm	AgSnO ₂ / 0.5 mm	AgSnO ₂ / 0.5 mm	Power MOSFET
Spacing of control connections/contact Spacing of control connections C1-C2/ contact	6 mm –	3 mm 6 mm	6 mm –	6 mm –	6 mm –	6 mm –
Test voltage control connections/contact Test voltage C1-C2/contact	4000V –	2000V 4000V	4000V –	4000V –	4000V –	4000V –
Rated switching capacity	10 A/250 V AC	16 A/250 V AC	10 A/250 V AC	10 A/250 V AC	16 A/250 V AC	400 W
Incandescent lamp and halogen lamp load ¹⁾ 230V, I on ≤ 70A/10ms	2000W ³⁾	2300W ³⁾	1000W ³⁾	2000W ³⁾	2000W ³⁾	400W
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	1000VA ³⁾	1000VA ³⁾	500VA ³⁾	1000VA ³⁾	1000VA ³⁾	–
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	500VA ³⁾	500VA ³⁾	250VA ³⁾	500VA ³⁾	500VA ³⁾	–
Compact fluorescent lamps with EVG* and energy saving lamps ESL	15x7W 10x20W ⁴⁾	15x7W 10x20W	I on ≤ 35A/10ms ²⁾	15x7W 10x20W ⁴⁾	15x7W 10x20W ^{3),4)}	100W
Max. switching current DCI: 12V/24V DC	8A	–	8A	8A	8A	–
Life at rated load, cos φ = 1 for incandescent lamps 1000W at 100/h	> 10 ⁵	> 10 ⁵	> 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	> 4 x 10 ⁴	> 4 x 10 ⁴	∞
Maximum conductor cross-section (3-fold terminal)	6 mm ² (4 mm ²)	6 mm ² (4 mm ²)	6 mm ² (4 mm ²)	4 mm ²	6 mm ² (4 mm ²)	6 mm ² (4 mm ²)
Two conductors of same cross-section (3-fold terminal)	2.5 mm ² (1.5 mm ²)	2.5 mm ² (1.5 mm ²)	2.5 mm ² (1.5 mm ²)	1.5 mm ²	2.5 mm ² (1.5 mm ²)	2.5 mm ² (1.5 mm ²)
Screw head	slotted/cros- shead, pozidriv	slotted/cros- shead, pozidriv	slotted/cros- shead, pozidriv	slotted/cros- shead	slotted/cros- shead, pozidriv	slotted/cros- shead, pozidriv
Type of enclosure/terminals	IP50/IP20	IP50/IP20	IP50/IP20	IP30/IP20	IP50/IP20	IP50/IP20
Electronics						
Time on	100%	100%	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	+50°C/-20°C	+50°C/-20°C
Temperature dependence	< 0.2% per °C	< 0.2% per °C	< 0.2% per °C	< 0.2% per °C	< 0.2% per °C	< 0.2% per °C
Repeat accuracy at 25°C	±0.1%	±0.1%	±0.1%	±0.1%	±0.1%	±0.1%
Control voltage dependence from 0.9 to 1.1 x rated voltage	none	none	none	none	none	none
Stored energy time in the event of power failure (then total reset)	≥ 0.2 seconds	≥ 0.2 seconds	≥ 0.2 seconds	≥ 0.2 seconds	7 days	≥ 0.2 seconds
Standby loss (active power) 230V	MFZ12DDX: 0.5W; MFZ12DX: 0.4-0.6W; RVZ/AVZ/TGI/ EAW12: 0.4W	0.5W	0.4W	0.4W	0.4W	0.3W
Standby loss (active power) 12V/24V	0.02W/0.04W; MFZ12DDX: 0.05W/0.1W	–	–	0.02W/0.04W	0.03W/0.06W	–
Control current 230V-control input local ±20%	–	2mA	2mA; A2Z12: –	–	–	–
Control current universal control voltage 8/12/24/230V (<10s) ± 20%	0.05/0.1/ 0.2/1mA	2/4/9/5 (100) mA	A2Z12: 0.05/ 0.1/0.2/1mA	0.05/0.1/ 0.2/1mA	0.04/0.05/ 0.1/1.2mA	10 (100)mA
Max. parallel capacitance (approx. length) of the control leads at 230V AC	0.2 μF (600m)	0.01 μF (30m) C1-C2: 0.03 μF (100m)	0.01 μF (30m); A2Z12: 0.2 μF (600m)	0.2 μF (600m)	0.2 μF (600m)	0.9 μF (3000m)

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

^{b)} Bistable relay as relay contact. The switched consumer may not be connected to the mains before the short automatic synchronisation after installation has terminated. ¹⁾ For lamps with a load of 150W max. ²⁾ 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. See chapter 14, page 14-8. ³⁾ The maximum load can be used from a delay time or clock cycle of 5 minutes. The maximum load is reduced for shorter times as follows: up to 2 seconds 15%, up to 2 minutes 30%, up to 5 minutes 60%.

⁴⁾ When using DX types close attention must be paid that zero passage switching is activated!