Type	MFZ12DX-230V MFZ12DBT [b] MFZ12DDX [b] MFZ12DX-UC [b] RVZ/AVZ/TGI/ EAW12DX [b]	MFZ12NP PTN12	MFZ12-230V A2Z12-UC [b]	MFZ61DX [b]	S2U12DDX [b] SU12DBT/1+1 [b] S2U12DBT [b] SU62PF-BT/UC [b]	ASSU-BT [b]
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	$AgSnO_2$/0.5 mm
Spacing of control connections/contact Spacing of control connections C1-C2/contact	6 mm –	3 mm 6 mm	6 mm –	6 mm –	6 mm –	–
Test voltage contact/contact	–	–	A2Z12: 4000 V	–	2000 V	–
Test voltage control connections/contact Test voltage C1-C2/contact	4000 V –	2000 V 4000 V	4000 V –	4000 V –	4000 V –	–
Rated switching capacity	10 A/250 V AC MFZ12DX/230V: 16 A/250 V AC	16 A/250 V AC	10 A/250 V AC	10 A/250 V AC	16 A/250 V AC S2U12DBT, SU62PF-BT/UC: 10 A/250 V AC	16 A/250 V AC
230 V LED lamps	up to 200 W [5] I on ≤ 120 A/5 ms	up to 200 W [5] I on ≤ 30 A/20 ms	up to 200 W [5] I on ≤ 120 A/5 ms	up to 200 W [5] I on ≤ 120 A/5 ms	up to 600 W [5] I on ≤ 120 A/5 ms SU62PF-BT/UC: bis zu 200 W [5] I on ≤ 120 A/5 ms	up to 400 W [5] I on ≤ 120 A/5 ms
Incandescent lamp and halogen lamp load [1] 230 V, I on ≤ 70 A/10 ms	2000 W [3]	2300 W [3]	1000 W [3]	2000 W [3]	2000 W [3]	2300 W [3]
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	1000 VA [3]	1000 VA [3]	500 VA [3]	1000 VA [3]	1000 VA [3]	1000 VA [3]
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	500 VA [3]	500 VA [3]	250 VA [3]	500 VA [3]	500 VA [3]	500 VA [3]
Compact fluorescent lamps with EVG* and energy saving lamps ESL	15x7 W 10x20 W [3][4][5]	15x7 W 10x20 W [3][5]	I on ≤ 35 A/10 ms [2][3][5]	15x7 W 10x20W [3][4][5]	15x7 W 10x20 W [3][4][5]	15x7 W 10x20 W [3][4][5]
Max. switching current DC1: 12 V/24 V DC	8 A	–	8 A	8 A	8 A	–
Life at rated load, cos φ = 1 for incandescent lamps 1000 W at 100/h	$>10^5$	$>10^5$	$>10^5$	$>10^5$	$>10^5$	$>10^5$
Life at rated load, cos φ = 0,6 at 100/h	$>4x10^4$	$>4x10^4$	$>4x10^4$	$>4x10^4$	$>4x10^4$	$>4x10^4$
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)	–
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)	–
Screw head	slotted/crosshead, pozidriv	slotted/crosshead, pozidriv	slotted/crosshead, pozidriv	slotted/crosshead	slotted/crosshead, pozidriv	–
Type of enclosure/terminals	IP50/IP20	IP50/IP20	IP50/IP20	IP30/IP20	IP50/IP20	IP44
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 ºC	< 0.2% per ºC	< 0.2% per ºC	< 0.2% per ºC	< 0.2% per ºC	< 0.2% je °C
Repeat accuracy at 25ºC	±0.1%	±0.1%	±0.1%	±0.1%	±0.1%	±0.1%
Control voltage dependence from 0.9 to 1.1x 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	7 days
Standby loss (active power) 230 V	MFZ12DX/230V: 0.02-0.6 W MFZ12DBT: 0.3 W; MFZ12DDX: 0.5 W; MFZ12DX-UC: 0.4- 0.6 W; RVZ/AVZ/TGI/EAW12: 0.4 W	0.5 W	0.4 W	0.4 W	0.3 W S2U12DDX: 0.5 W	0.3 W
Standby loss (active power) 12 V/24 V	0.02 W/0.04 W; MFZ12DDX: 0.05 W/0.1 W	–	–	0.02 W/0.04 W	0.03 W/0.06 W S2U12DBT, SU12DBT: 0.1 W	–
Control current 230 V-control input local ±20%	–	2mA	2mA; A2Z12: –	–	–	–
Control current universal control voltage 8/12/24/230 V (<10 s) ± 20%	0.05/0.1/ 0.2/1 mA	2/4/9/5 (100) mA	A2Z12: 0.05/ 0.1/0.2/1 mA	0.05/0.1/ 0.2/1 mA	0.04/0.05/ 0.1/1.2 mA	–
Max. parallel capacitance (approx. length) of the control leads at 230 V AC	0.2 µF (600 m)	0.01 µF (30 m) C1-C2: 0.03 µF (100 m)	0.01 µF (30 m); A2Z12: 0.2 µF (600 m)	0.2 µF (600 m)	0.2 µF (600 m)	–

* 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 150 W max. [2] 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. 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! [5] Usually applies for dimmable 230 V LED lamps and dimmable energy saving lamps. Due to different lamp electronics and depending on the manufacturer, the maximum number of lamps may be limited, especially if the wattage of the individual lamps is very low (e.g. with 2 W 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.

Compliance with: EN 61000-6-3, EN 61000-6-1, EN 60 669 (S2U12DDX: EN 60730-1)