

	PL-SAMDU	PL-AMD10V	PL-SAM1L PL-SAM1LT	PL-SAM2L	PL-SAM2
Contacts					
Contact material/contact gap	Power MOSFET	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	–	–	3 mm	3 mm	3 mm
Test voltage control connections/contact	–	–	2000 V	2000 V	2000 V
Rated switching capacity each contact	–	600 VA ⁴⁾	10 A/250 V AC	5 A/250 V AC	3 A/250 V AC
Incandescent lamp and halogen lamp load ¹⁾ 230V, I _{on} ≤ 70A/10ms	up to 300 W ²⁾	–	2000 W	1000 W	–
Inductive load cos φ = 0.6/230 V AC inrush current ≤ 35 A	up to 300 W ⁴⁾	–	650 W	650 W ⁵⁾	650 W ⁵⁾
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	–	–	1000 VA	500 VA	–
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	–	600 VA ⁴⁾	500 VA	250 VA	–
Compact fluorescent lamps with EVG* and energy saving lamps	–	–	up to 400 W	–	–
Dimmable 230V LED lamps	up to 300 W ³⁾	–	up to 400 W	–	–
Service life at rated load, cos φ = 1 or incandescent lamps 500W at 100/h	–	> 10 ⁵	> 10 ⁵	> 10 ⁵	> 10 ⁵
Service 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
Max. operating cycles	–	10 ³ /h	10 ³ /h	10 ³ /h	10 ³ /h
Connection type	Plug-in terminals	Plug-in terminals	Plug-in terminals	Plug-in terminals	Plug-in terminals
Minimum conductor cross-section	0.2 mm ²	0.2 mm ²	0.2 mm ²	0.2 mm ²	0.2 mm ²
Maximum conductor cross-section	1.5 mm ²	1.5 mm ²	1.5 mm ²	1.5 mm ²	1.5 mm ²
Conductor stripping	8-9 mm	8-9 mm	8-9 mm	8-9 mm	8-9 mm
Type of enclosure/terminals	IP30/IP20	IP30/IP20	IP30/IP20	IP30/IP20	IP30/IP20
Electronics					
Time on	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
Standby loss (active power)	0.6 W	0.5 W	0.5 W	0.5 W	0.5 W
Local control current at 230V control input	0.4 mA	–	0.4 mA	0.4 mA	0.4 mA
Max. parallel capacitance (approx. length) of local control lead at 230V AC	3 nF (10 m)	–	3 nF (10 m)	3 nF (10 m)	3 nF (10 m)

¹⁾ Applies to lamps of max. 150W.

²⁾ Also transformers electronically (C load).

³⁾ Generally applies to 230V LED lamps. Due to different lamp electronics, switch on/off problems and a restriction in the maximum number of lamps, however, the dimming ranges may be limited depending on the manufacturer; in particular when the connected load is very low (e.g. with 5W LEDs). The comfort position LC1 at SAMDU optimizes the dimming range, which however results in a maximum capacity of only up to 150W. In this comfort position, no wound (inductive) transformers should be dimmed.

⁴⁾ Fluorescent lamps or LV halogen lamps with electronic ballast.

⁵⁾ All actuators with 2 contacts: Inductive load cos φ = 0.6 as sum of both contacts 1000W max.

⁶⁾ A maximum of 2 transformers of the same type.

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

Powerline communication in the B/C-Band (5 kb/s) corresponds to FCC, CENELEC EN 50065-1 and LONWORKS protocol