

Type	PL-SAMDU	PL-AMD10V	PL-SAM1L PL-SAM1LT	PL-SAM2L	PL-SAM2
<b>Contacts</b>					
Contact material/contact gap	Power Mosfet	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	3 mm	3 mm
Test voltage control connections/contact	-	-	2000 V	2000 V	2000 V
Rated switching capacity each contact	-	600 VA <sup>4)</sup>	10 A/250 V AC	5 A/250 V AC	3 A/250 V AC
Incandescent lamp and halogen lamp load <sup>1)</sup> 230 V, I <sub>on</sub> ≤ 70 A/10 ms	up to 300 W <sup>2)</sup>	-	2000 W	1000 W	-
Inductive load cos φ = 0.6/230 V AC inrush current ≤ 35 A	up to 300 W <sup>6)</sup>	-	650 W	650 W <sup>5)</sup>	650 W <sup>5)</sup>
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 <sup>4)</sup>	500 VA	250 VA	-
Compact fluorescent lamps with EVG* and energy saving lamps	-	-	up to 400 W	-	-
Dimmable 230 V LED lamps	up to 300 W <sup>3)</sup>	-	up to 400 W	-	-
Service life at rated load, cos φ = 1 or incandescent lamps 500 W at 100/h	-	>10 <sup>5</sup>	>10 <sup>5</sup>	>10 <sup>5</sup>	>10 <sup>5</sup>
Service 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
Connection type	Plug-in terminals	Plug-in terminals	Plug-in terminals	Plug-in terminals	Plug-in terminals
Minimum conductor cross-section	0.2 mm <sup>2</sup>	0.2 mm <sup>2</sup>	0.2 mm <sup>2</sup>	0.2 mm <sup>2</sup>	0.2 mm <sup>2</sup>
Maximum conductor cross-section	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>
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
<b>Electronics</b>					
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 230 V control input	0.4 mA	-	0.4 mA	0.4 mA	0.4 mA
Max. parallel capacitance (approx. length) of local control lead at 230 V AC	3 nF (10 m)	-	3 nF (10 m)	3 nF (10 m)	3 nF (10 m)

<sup>1)</sup> Applies to lamps of max. 150 W.

<sup>2)</sup> Also transformers electronically (C load).

<sup>3)</sup> Generally applies to 230 V 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 5 W LEDs). The comfort position LC1 at SAMDU optimizes the dimming range, which however results in a maximum capacity of only up to 150 W. In this comfort position, no wound (inductive) transformers should be dimmed.

<sup>4)</sup> Fluorescent lamps or LV halogen lamps with electronic ballast.

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

<sup>6)</sup> A maximum of 2 transformers of the same type.

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

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