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**Related Standards**

-  IEC International Electrotechnical Commission
-  GB China Guo Biao



Test for Switches Intended for Self-ballasted Loads

Product No: SBLL-3P20A

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**Description**

This equipment is used to test the load on-off capability of the self-ballasted lamp switch. Check whether the switch has continuous arc flash, whether the contacts are welded, whether there are long-term contact closures and disconnections, check whether there is excessive wear or other damage. The self-ballasted lamp switch should withstand the electrical and thermal stresses that occur when controlling the LED circuit and without excessive damage or other harmful effects. The SBLL-3P20A fully meets the requirements for controlling self-ballasted lamp switches of GB16915.1-2014 Clause 19.3 and IEC60669-1: 2017 Clause 19.3.

**Specifications:**

- Digital display voltage value: 0~300V, accuracy: Class 0.5. Digital display power value: 0~9KW, accuracy: Class 0.5
- Each preset switch rated voltage: AC 250V, and rated current: 10A, 13A, 16A, 20A four gears available
- Equipped with a voltage regulating device, it can reach 250V AC voltage required for switching test without connecting external voltage regulator
- Adjustable input voltage to ensure test voltage AC 250V
- All working parameters are set according to AC 250V, including W, I<sub>peak</sub>, I<sub>2t</sub> and current surge waveform. This load has preset the load conditions required by the standard before leaving the factory. As long as the test voltage is adjusted to AC 250V, the operator presses the same switch button as the rated current of the switch to be tested, it's rated power, surge waveform, I<sub>peak</sub> and I<sub>2t</sub> will meet standard requirement.
- Convenient and intuitive to use: Digital input voltage and output power, and the pointer type ammeter can observe the current impact.
- The number of work stations is 3, that is, it can test 3 switches at the same time
- Each set of equipment provides a closing control device, which is turned on at a 90-degree angle each time. This function can be used for initial equipment calibration and measurement verification
- With metering mode and metering dedicated port, built-in 90-degree closing board, convenient to measure the output waveform. The I<sub>peak</sub> current value and I<sub>2t</sub> energy value fully meet the standard requirements for equipment measurement
- With long-break/long-pass protection function, protection time:1~99s can be preset. There will be an alarm prompt if shutdown during protection
- Power supply : Single Phase AC 220V/50Hz

**Refer to the IEC Standard :** The current peak value of the type of power distribution system corresponding to the load test of this device is as in IEC60669-1:2017 Table 19:

**Table 19 – Values for I<sub>peak</sub> and I<sup>2</sup>t depending on the type of distribution system**

Rated current (A)	Distribution system [V]:	Distribution system [V]:	Distribution system [V]:	Distribution system [V]:	Distribution system [V]:	Distribution system [V]:
	220/380	220/380	120/208	120/208	220/380	120/208
	230/400	230/400	120/240	120/240	230/400	120/240
	240/415	240/415	127/220	127/220	240/415	127/220
	I <sub>peak</sub> [A]	I <sup>2</sup> t [A <sup>2</sup> s]	I <sub>peak</sub> [A]	I <sup>2</sup> t [A <sup>2</sup> s]	Rated power of the SBL circuit [W]	Rated power of the SBL circuit [W]
Up to and including 10	108	2,8	162	5,9	100	60
Above 10 up to and including 13	142	5,5	162	5,9	150	60
Above 13 up to and including 16	170	9	200	11,5	200	100
Above 16 up to and including 20	192	13	231	18,5	250	150

IEC 60669-1:2017

**Refer to the GB Standard :** The current peak value of the type of power distribution system corresponding to the load test of this device is as in GB16915.1-2014 Table 19:

3. 在 90±5° 相位角下接通模拟开关(模拟开关及控制系统由我方提供), 测量 I<sub>peak</sub> 和 I<sup>2</sup>t 值, 测量 I<sub>peak</sub> 和 I<sup>2</sup>t 值在标准值的±5%偏差内即认为验收合格, 具体测量数据标准值及项目见下表:

Table 108 – Values for I<sub>peak</sub> and I<sup>2</sup>t depending on the type of distribution system

Rated Power (W)	I <sub>peak</sub> A	I <sup>2</sup> t A <sup>2</sup> s	I <sub>peak</sub> A	I <sup>2</sup> t A <sup>2</sup> s
	Distribution system: 220/380, 230/400, 240/415	Distribution system: 220/380, 230/400, 240/415	Distribution system: 120/208, 127/220	Distribution system: 120/208, 127/220
15	22	0.08	69	0.56
30	41	0.3	109	1.9
60	73	1.2	162	5.9
100	108	2.8	200	11.5
150	142	5.5	231	18.5
200	170	9	248	24.5
250	192	13	255	30
300	209	16.5	260	35
350	223	20.5	262	39
400	235	24.5	263	43

NOTE: For values not given in the table the test values are determined by interpolation.

GB16915.1-2014 Clause 19.3

