# K-LOK 400A

**KUPO K-LOK 400A SINGLE-POLE CAM-TYPE CONNECTOR SHORT-CIRCUIT WITHSTAND TEST**

| ASSOCIATED THIRD-PARTY REPORT NUMBER | TEST PERIOD |
| --- | --- |
| **Intertek Report No. 2608B1785SHA-001** | **2026-09-10 to 2026-11-03** |

## 01 PURPOSE AND SCOPE

### Purpose

To evaluate the short-circuit withstand capability of K-LOK 400A single-pole cam-type connectors under fault conditions — verifying no risk of fire, discharge of parts, or exposure of live parts at 600 V / 35 kA prospective short-circuit current — and to assess acceptance against the criteria of UL 508, Table 56.1.

### Scope

This test applies to K-LOK 400A single-pole cam-type connectors, in-line versions,each assembled with AWG 4/0 Type W single-conductor cable, tested in mating configurations: in-line male + in-line female.

## 02 TEST BASIS AND ACCEPTANCE CRITERIA

### Acceptance statement

This test was conducted in accordance with UL 508:2024 Ed.19, Clause 52, as requested by the client. Acceptance is based on criteria (a)–(e) of UL 508, Table 56.1. The standard serves solely as the test basis for this short-circuit withstand verification and does not constitute UL 508 certification of the complete connector series.

## 03 TESTED SAMPLES

| ITEM | PRODUCT PART NUMBER | CONFIGURATION |
|---|---|---|
| 1 | KL-400LMBK + KL-400LFBK | In-line male + in-line female pair, assembled with AWG 4/0 Type W single-conductor cable |

Applicant and manufacturer: KUPO CO., LTD.
Sample numbers: A260910-22-001~003
Sample receipt date: 2026-09-10

## 04 TEST PARAMETERS AND CONDITIONS

| PARAMETER | CONDITION |
|---|---|
| Test voltage | 600 V AC |
| Prospective short-circuit current | 35 kA |
| Energization duration | 60 ms (3 cycles) |
| Energization mode | Continuous, without interruption |
| Connected cable | AWG 4/0 Type W single-conductor cable |

## 05 EVALUATION SUMMARY

| CRITERION | ASSESSMENT |
|---|---|
| With reference to UL 508:2024 Ed.19 Clause 52, a full voltage of 600 V and a prospective short-circuit current of 35 kA were applied for 3 cycles (60 ms, continuous energization, no interval), assessed against criteria (a)–(e) of UL 508, Table 56.1. | PASS |

### Conclusion

All tested samples passed the reported short-circuit test. The results apply to the tested samples, mating configurations and conditions specified in Intertek Report No. 2608B1785SHA-001.

## 06 TEST RESULTS

| NO. | ACCEPTANCE CRITERION | RESULT |
|---|---|---|
| a | The solid AWG wire connected between the live pole and enclosure shall not open. | PASS |
| b | The door or cover shall not be blown open and shall remain openable. Openings caused by enclosure deformation shall comply with 7.17.1 for accessibility of live parts under normal operating conditions. | PASS |
| c | Conductors and terminal connectors shall not be damaged and no conductor shall pull out. Bus bars, insulators and connectors, including stab-in assemblies, shall not be damaged; bus bars shall not shift or pull out of mounts or terminals. | PASS |
| d | Insulating bases shall not break or crack to an extent that impairs the integrity of live-part mounting. | PASS |
| e | Ejection of parts or any risk of fire shall not occur. | PASS |

Test basis: UL 508:2024, Edition 19, Clause 52.
Acceptance criteria: UL 508, Table 56.1, items (a)-(e).

### Report source

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