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| - 1 | | 11 | | |

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| Report No. | L0560(E)/62 | |
|-------------------------------------|---|--|
| | | |
| Operation No. | 6207BL0590 | |
| Name and address of customer | SEANG NGARM GROUP (2535) CO., LTD. | |
| | 123-125-127 Chakawat rd. Samphantawong, Samphantawong Bangkok 10100 | |
| Sample description | Sample was submitted and identified by/on behalf of the customer | |
| | as following: | |
| | ELECTRICAL PLASTIC ENCLOSURES | |
| | Trademark: PRI PRODUCTS | |
| | Model: PR4 | |
| | Size: 350X510X180mm | |
| | 1 set (1 unit) | |
| Sample No. | BL0590 | |
| Sample characteristic and condition | Normal | |
| Sample received date | July 23, 2019 | |
| Test date | August 8, 2019 – August 8, 2019 | |
| Issue date | August 15, 2019 | |
| Test standard | IEC 60529:2001 (IP44) | |
| Test report | Details of the test report as shown on the following pages. | |
| c | | |

Summary of testing

The test results comply with standard

| Tested by (name + signature) | Mr. Nopparat Charoen | |
|---|---|--|
| Approved by (name + signature) | Mr. Rachen Muongon | P |
| Certified by (name, function + signature) | Mr. Arthit Wussanamongkol Division manager, Operation division 1 | antity du ma: atânso uná Electrical and electronics institute |







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Sample photo



Possible test case verdicts:

N

P : test object does meet the requirement

F : test object does not meet the requirement

: test case does not apply to the test object







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Test method

The sample was tested and complies with the IP44 requirement, Protection against access to hazardous parts, Protection against solid foreign objects and Protection against water test.

Protected against access to hazardous parts with a wire test (IP4X)

The test wire of 1.0 mm Ø shall not penetrate and adequate clearance shall be kept.

Protected against solid foreign objects of 1.0 mm. Ø and greater (IP4X)

The object probe of 1.0 mm \emptyset is pushed against or inserted through any opening of the enclosure with 1 N \pm 10%

Protected against splashing water test (IPX4)

The test is made using of test devices described in figure 4 The oscillating tube has spray holes over the whole 180° of the semicircle and total flow rate is adjusted as specified in table 9 of IEC 60529:2001

The tube is caused to oscillate through an angle of almost 360°, 180° on either side of the vertical, the time for one complete oscillation being about 12 s. The test duration of the test is 10 min.

The support for the enclosure under test is perforated so as to avoid acting as a baffle and the enclosure is sprayed from every direction by oscillating the tube to the limit of its travel in each direction.

The tube radius is 400 mm.

The flow rate is 1.80 lite/min.

Distance from spray holes to enclosure surface 200 mm.







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Test Result

| Degree of protection | | | | Result / Remark | Vordist |
|----------------------|------|---|---|--|---------|
| Degree | | Test | Definition | nesutt/ hemaik | Verdict |
| IP44 | IP4X | Protected against access to hazardous parts with a wire Protected against solid foreign objects of 1.0 mm Ø and greater | The access probe of 1.0 mm Ø shall not penetrate The object probe of 1.0mm Ø, shall not penetrate at all | The access probe of 1.0 mm Ø, not penetrate to the enclosure. The object probe of 1.0 mm Ø, not penetrate to the enclosure. | P |
| | IPX4 | Protected against splashing water | Water splashed against the enclosure from any direction shall have no harmful effects. | No water was found inside the enclosure. | Р |







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Attached photo

Photo No.1: Front view

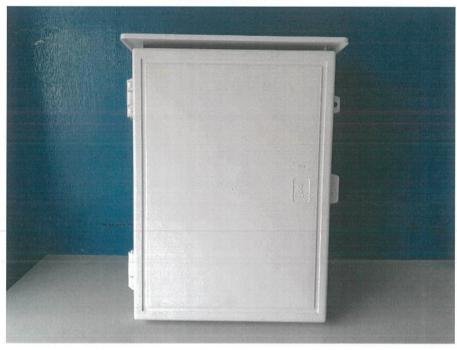


Photo No.2: Back view



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Attached photo

Photo No.3: Side view

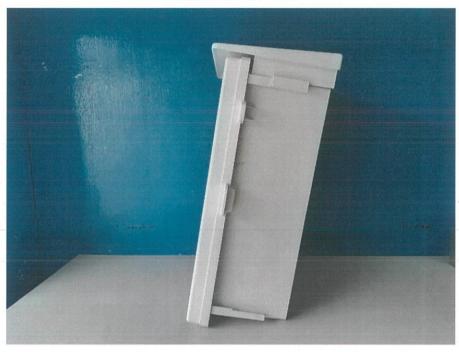
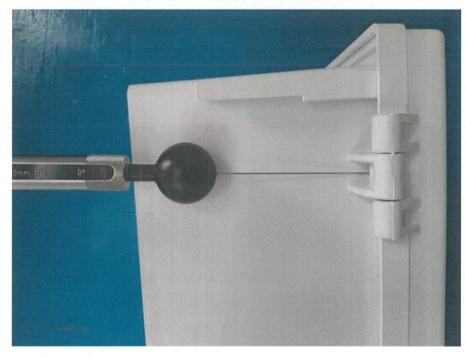


Photo No.4: IP4X test wire of Ø 1.0 mm



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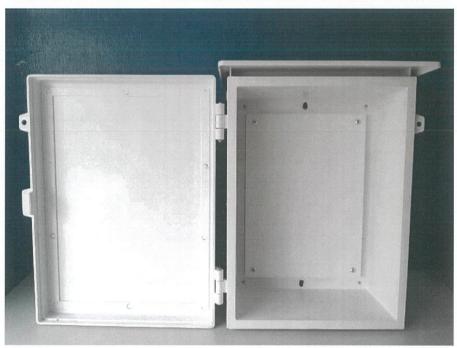
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Attached photo

Photo No.5: IPX4 Water test



Photo No.6: After test









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Attached photo

Photo No.7: After test

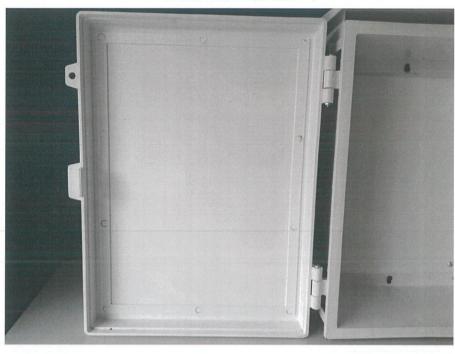
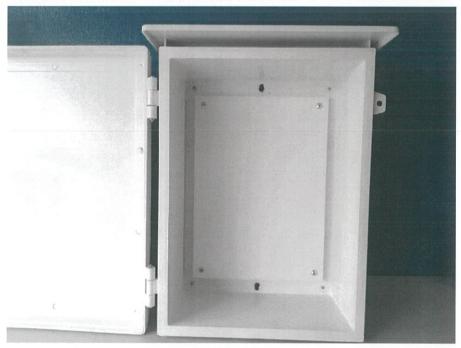


Photo No.8: After test









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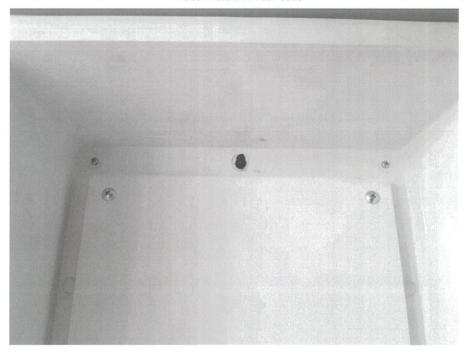
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Attached photo

Photo No.9: After test



Photo No.10: After test



- End of report -