File Number: CGT-QP-13.0-02

Test Report

Report No:	EL01-2104002
Sample Description:	SBC for 24 kV 250A Elbow Connector
Date of Issue:	2021/04/08
Laboratory:	Chardon Taiwan Test Lab.
Address:	No. 37 Min-Chie Road Tung Lo Industrial Park Miao Li, Taiwan 366
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Approved by:

Doris Hsieh

Chardon Taiwan Laboratory Test Report

Chardon Taiwan Test Lab adhere to the highest laboratory ISO 17025 management standards.

Information

Test Type:	Verification Test
Type or Part No.	DTLLE25-50-1L / SBC
Quantity of Parts:	4 pcs
Date of Receipt:	2020/10/22
Date of Test:	2020/10/23 ~ 2020/11/02
Compliance:	ANSI/IEEE Std. C37.41-2016
Client:	Chardon Taiwan Sales & Customer Service Department
Address:	No. 37 Min-Chie Road Tung Lo Industrial Park Miao Li, Taiwan 366
Manufacturer:	Chardon Taiwan Group
Address:	No. 37 Min-Chie Road Tung Lo Industrial Park Miao Li, Taiwan 366
Test Laboratory:	Chardon Taiwan Test Laboratory
Address:	No. 37 Min-Chie Road Tung Lo Industrial Park Miao Li, Taiwan 366
Disposition of Sample:	Scrap 90 days after report date.

Summary Table

Notice:
1. There are 4 pages in this report, including the cover page; The Test Report has to be presented, if necessary, as complete copy, not part of it.
2. The contents of this report is for reference only, not for advertising, general public or any other commercial purposes.
3. The article(s)、name of the article(s) to be tested and Sampler(s) is supplied by the applicant ;「Chardon Taiwan Test Lab.」 is responsible for carrying out necessary test procedures only.
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Temperature rise test

Object

To verify the SBC that the parts meet ANSI/IEEE Std. C37.41-2016 Clause 11 Temperature rise tests.

Testing Samples

SBC	for 24 kV 250A Elbow Connector	4 PCS

Procedure and Testing Spec

The ambient temperature shall be determined by taking the reading from a thermocouple (or thermometer) placed between 30 cm (12 in) and 1 m (33 in) from the side of the device.

The smallest size of the oil cup employed in any case shall consist of a metal cylinder with 25 mm (1 in) diameter and 50 mm (2 in) height.

During the last quarter of the test period, the change of ambient air temperature shall not exceed 1 °C in 1 h.

When a fuse is immersed in an insulating liquid, the temperature of the liquid (ambient liquid temperature) shall be measured below and close to the device (that is, in the liquid that cools the device).

The test current shall be applied continuously until three consecutive temperature readings taken at 30 min intervals show a maximum variation of 1 °C in the temperature-rise above ambient.

Results

Temperature (℃)						
Cycle	Cable (50mm)	Sample No.				Room
		2010023-01	2010023-02	2010023-03	2010023-04	
1	163.2	92.8	92.2	84.9	81.4	21.8
2	163.1	91.2	92.4	84.3	80.8	21.9
3	161.7	92.1	91.3	84.8	81.2	22.0
Average	162.7	92.0	92.0	84.7	81.1	21.9
Temp. rise	140.8	70.1	70.1	62.8	59.2	N/A
Note	1. Test current: 250A 2. Installation torque: 9.5Nm					

Test photo

	
Test sample	Temperature rise tests