



中国认可
国际互认
检测
TESTING
CNAS L0153

No. DY194463

TEST REPORT

Name of product	Enclosure for DIN Rail Devices
Type Specification	DIN-EN-2×18, DIN-EN-3×18, DIN-EN-3×18-MMOE, DIN-EN-6×18, DIN-EN-6×18-MMOE
Applicant	Crestron Electronics, Inc.
Testing category	Commission Test



CHINA NATIONAL QUALITY SUPERVISION AND TESTING CENTER FOR SMART GRID TRANSMISSION AND DISTRIBUTION EQUIPMENT(CEST)



国家智能电网输配电设备质量监督检验中心（广东）

China National Quality Supervision And Testing Center for
Smart Grid Transmission And Distribution Equipment (CEST)

检测报告

TEST REPORT

Page 1 of 21

产品名称 Name of product	Enclosure for DIN Rail Devices	生产日期/有效日期 Date of manufacturing/expiry	_____/____
型号、规格、商标、等级 Type, Specification, Trade mark, Class	DIN-EN-2×18, DIN-EN-3×18, DIN-EN-3×18-MMOE, DIN-EN-6×18, DIN-EN-6×18-MMOE CRESTRON	编号/批号 Batch No.	_____/____
受检单位 Inspected unit	____	检测/抽样单号 No. of testing/sampling plan	YDY19/001856/ ____
受检单位 地址 Address of inspected unit	____	检测类别 Testing category	Commission Test
委托单位(申请人) Applicant	Crestron Electronics, Inc.	抽样地点 Location of sampling	____
生产单位 Factory	Crestron Electronics, Inc.	抽样基数 Basic quantity of sampling	____
生产单位 地址 Address of factory	15 Volvo Dr, Rockleigh Nj 07647, United States	来样方式 Way of sample incoming 送/抽样者 Personnel performing sending/sampling	Customer Sampling sending(Zesheng Li)
样品数量 Quantity of sample	5 sets	到/抽样日期 Date of receipt of sample/ sampling	Dec. 17, 2019/ ____
样品状态 Status of sample	Good condition	签发日期 Date of issue	Feb. 12, 2020
检测依据 Testing reference	IEC 62208: 2011 Empty enclosures for low-voltage switchgear and controlgear assemblies-General requirements		
判定依据 Judging reference	____		
检测结论 Conclusion	See test result attached.		
备注 Notes	Type: 5-1: DIN-EN-2×18, 5-2: DIN-EN-3×18, 5-3: DIN-EN-3×18-MMOE, 5-4: DIN-EN-6×18, 5-5: DIN-EN-6×18-MMOE.		

批准:

Approved by:

审核:

Reviewed by:

主检:

Tested by:



检测报告

TEST REPORT

List of test items

No.	Test Item	Clause/Subclause	Verdict
1	Marking(5-1 ~ 5-5)	9.3	Pass
2	Static loads(5-1)	9.4	Pass
3	Static loads(5-2)	9.4	Pass
4	Static loads(5-3)	9.4	Pass
5	Static loads(5-4)	9.4	Pass
6	Static loads(5-5)	9.4	Pass
7	Lifting(5-1)	9.5	Pass
8	Lifting(5-2)	9.5	Pass
9	Lifting(5-3)	9.5	Pass
10	Lifting(5-4)	9.5	Pass
11	Lifting(5-5)	9.5	Pass
12	Degree of protection against external mechanical impacts (IK code) (5-1)	9.7	Pass
13	Degree of protection against external mechanical impacts (IK code) (5-2)	9.7	Pass
14	Degree of protection against external mechanical impacts (IK code) (5-3)	9.7	Pass
15	Degree of protection against external mechanical impacts (IK code) (5-4)	9.7	Pass
16	Degree of protection against external mechanical impacts (IK code) (5-5)	9.7	Pass
17	Degree of protection (IP code) (5-1)	9.8	Pass
18	Degree of protection (IP code) (5-2)	9.8	Pass
19	Degree of protection (IP code) (5-3)	9.8	Pass
20	Degree of protection (IP code) (5-4)	9.8	Pass
21	Degree of protection (IP code) (5-5)	9.8	Pass
22	Resistance to abnormal heat and fire(5-1 ~ 5-5)	9.9.3	Pass
23	Continuity of the protective circuit (5-1)	9.11	Pass
24	Continuity of the protective circuit (5-2)	9.11	Pass
25	Continuity of the protective circuit (5-3)	9.11	Pass
26	Continuity of the protective circuit (5-4)	9.11	Pass
27	Continuity of the protective circuit (5-5)	9.11	Pass
28	Resistance to corrosion(5-1 ~ 5-5)	9.13	Pass
	Blank below		

检测报告

TEST REPORT

TEST REPORT			
Clause number	Requirement – Test	Result – Remark	Verdict
9.3	Marking	5-1 ~ 5-5	Pass
	<p>Marking made by moulding, pressing, engraving or similar, including labels with a laminated plastic covering, shall not be submitted to the following test.</p> <p>The test is made by rubbing the marking by hand for 15 s with a piece of cloth soaked in water and then for 15 s with a piece of cloth soaked with petroleum spirit.</p> <p>After the test the marking shall be legible to normal or corrected vision without additional magnification.</p>	<p><u>Plastic/printing</u></p> <p><u>Complied</u></p> <p><u>Complied</u></p>	
9.4	Static loads	5-1	Pass
	<p>The enclosure fitted with all its required components to support the permissible load is loaded with a weight of 1.25 times the permissible load as declared by the manufacturer.</p> <p>The loads are arranged on the controlgear supports: 1.25×11.3 (kg)</p> <p>The loads are arranged on the enclosure cover: 1.25×2.5 (kg)</p> <p>The loads are retained for 1 h in the closed position.</p> <p>For enclosures constructed of insulating material and metallic enclosures with parts (hinges, locks, etc.) of insulating material, this shall be carried out at 70 °C.</p> <p>The closed door is opened five times through 90°, resting at least 1 min in the open position.</p> <p>After the test: 1. With the test loads in place 2. The enclosure shall show no cracks or permanent distortions 3. During the test no deflections which could impair any of its characteristics.</p>	<p>14.2</p> <p>3.2</p> <p>1 h</p> <p>—</p> <p><u>Complied</u></p> <p><u>Complied</u></p> <p><u>Complied</u></p> <p><u>Complied</u></p>	

检测报告

TEST REPORT

TEST REPORT			
Clause number	Requirement – Test	Result – Remark	Verdict
9.4	Static loads	5-2	Pass
	<p>The enclosure fitted with all its required components to support the permissible load is loaded with a weight of 1.25 times the permissible load as declared by the manufacturer.</p> <p>The loads are arranged on the controlgear supports:</p> <p style="text-align: right;"><u>1.25×13.6 (kg)</u></p> <p>The loads are arranged on the enclosure cover: <u>1.25×2.5(kg)</u></p> <p>The loads are retained for 1 h in the closed position.</p> <p>For enclosures constructed of insulating material and metallic enclosures with parts (hinges, locks, etc.) of insulating material, this shall be carried out at 70 °C.</p> <p>The closed door is opened five times through 90°,resting at least 1 min in the open position.</p> <p>After the test: 1. With the test loads in place</p> <p>2.The enclosure shall show no cracks or permanent distortions</p> <p>3.During the test no deflections which could impair any of its characteristics.</p>	<p style="text-align: center;"><u>17</u></p> <p style="text-align: center;"><u>3.2</u></p> <p style="text-align: center;"><u>1 h</u></p> <p style="text-align: center;">—</p> <p style="text-align: center;">—</p> <p style="text-align: center;"><u>Complied</u></p> <p style="text-align: center;"><u>Complied</u></p> <p style="text-align: center;"><u>Complied</u></p>	
9.4	Static loads	5-3	Pass
	<p>The enclosure fitted with all its required components to support the permissible load is loaded with a weight of 1.25 times the permissible load as declared by the manufacturer.</p> <p>The loads are arranged on the controlgear supports:</p> <p style="text-align: right;"><u>1.25×13.6 (kg)</u></p> <p>The loads are arranged on the enclosure cover: <u>1.25×2.5(kg)</u></p> <p>The loads are retained for 1 h in the closed position.</p> <p>For enclosures constructed of insulating material and metallic enclosures with parts (hinges, locks, etc.) of insulating material, this shall be carried out at 70 °C.</p> <p>The closed door is opened five times through 90°,resting at least 1 min in the open position.</p> <p>After the test: 1. With the test loads in place</p> <p>2.The enclosure shall show no cracks or permanent distortions</p> <p>3.During the test no deflections which could impair any of its characteristics.</p>	<p style="text-align: center;"><u>17</u></p> <p style="text-align: center;"><u>3.2</u></p> <p style="text-align: center;"><u>1 h</u></p> <p style="text-align: center;">—</p> <p style="text-align: center;">—</p> <p style="text-align: center;"><u>Complied</u></p> <p style="text-align: center;"><u>Complied</u></p> <p style="text-align: center;"><u>Complied</u></p>	

检测报告

TEST REPORT

TEST REPORT			
Clause number	Requirement – Test	Result – Remark	Verdict
9.4	Static loads	5-4	Pass
	<p>The enclosure fitted with all its required components to support the permissible load is loaded with a weight of 1.25 times the permissible load as declared by the manufacturer.</p> <p>The loads are arranged on the controlgear supports:</p> <p style="text-align: right;"><u>1.25×20 (kg)</u></p> <p>The loads are arranged on the enclosure cover: <u>1.25×2.5(kg)</u></p> <p>The loads are retained for 1 h in the closed position.</p> <p>For enclosures constructed of insulating material and metallic enclosures with parts (hinges, locks, etc.) of insulating material, this shall be carried out at 70 °C.</p> <p>The closed door is opened five times through 90°,resting at least 1 min in the open position.</p> <p>After the test:1. With the test loads in place</p> <p>2.The enclosure shall show no cracks or permanent distortions</p> <p>3.During the test no deflections which could impair any of its characteristics.</p>	<p style="text-align: center;"><u>25</u></p> <p style="text-align: center;"><u>3.2</u></p> <p style="text-align: center;"><u>1 h</u></p> <p style="text-align: center;">—</p> <p style="text-align: center;">—</p> <p style="text-align: center;"><u>Complied</u></p> <p style="text-align: center;"><u>Complied</u></p> <p style="text-align: center;"><u>Complied</u></p>	
9.4	Static loads	5-5	Pass
	<p>The enclosure fitted with all its required components to support the permissible load is loaded with a weight of 1.25 times the permissible load as declared by the manufacturer.</p> <p>The loads are arranged on the controlgear supports:</p> <p style="text-align: right;"><u>1.25×20 (kg)</u></p> <p>The loads are arranged on the enclosure cover: <u>1.25×2.5(kg)</u></p> <p>The loads are retained for 1 h in the closed position.</p> <p>For enclosures constructed of insulating material and metallic enclosures with parts (hinges, locks, etc.) of insulating material, this shall be carried out at 70 °C.</p> <p>The closed door is opened five times through 90°,resting at least 1 min in the open position.</p> <p>After the test:1. With the test loads in place</p> <p>2.The enclosure shall show no cracks or permanent distortions</p> <p>3.During the test no deflections which could impair any of its characteristics.</p>	<p style="text-align: center;"><u>25</u></p> <p style="text-align: center;"><u>3.2</u></p> <p style="text-align: center;"><u>1 h</u></p> <p style="text-align: center;">—</p> <p style="text-align: center;">—</p> <p style="text-align: center;"><u>Complied</u></p> <p style="text-align: center;"><u>Complied</u></p> <p style="text-align: center;"><u>Complied</u></p>	
9.5	Lifting	5-1	Pass
	<p>This test only applies to enclosures with provisions for lifting.</p> <p>The enclosure is loaded as in 9.4 and with its door closed, is lifted with the specified lifting means and in the manner defined by the enclosure manufacturer.</p> <p>From the standstill position, the enclosure is raised up three times in</p>	<p style="text-align: center;"><u>Test weight: 17.4kg</u></p>	

检测报告

TEST REPORT

TEST REPORT			
Clause number	Requirement – Test	Result – Remark	Verdict
	<p>a vertical plane returning to the standstill position.</p> <p>The enclosure is raised up and suspended for 30 min at a height of ≥ 1 m for 30 min without any movement.</p> <p>Following this test, the enclosure is raised to a height of ≥ 1 m and moved $(10 \pm 0,5)$ m horizontally, then set down. This cycle, which should be carried out for $1 \text{ min} \pm 5 \text{ s}$ is repeated three times at uniform speed.</p> <p>After the test, with the test loads in place, the enclosure shall show no cracks or permanent distortions and during the test no deflections which could impair any of its characteristics.</p>	<p><u>Complied</u></p> <p><u>Complied</u></p>	
9.5	Lifting	5-2	Pass
	<p>This test only applies to enclosures with provisions for lifting.</p> <p>The enclosure is loaded as in 9.4 and with its door closed, is lifted with the specified lifting means and in the manner defined by the enclosure manufacturer.</p> <p>From the standstill position, the enclosure is raised up three times in a vertical plane returning to the standstill position.</p> <p>The enclosure is raised up and suspended for 30 min at a height of ≥ 1 m for 30 min without any movement.</p> <p>Following this test, the enclosure is raised to a height of ≥ 1 m and moved $(10 \pm 0,5)$ m horizontally, then set down. This cycle, which should be carried out for $1 \text{ min} \pm 5 \text{ s}$ is repeated three times at uniform speed.</p> <p>After the test, with the test loads in place, the enclosure shall show no cracks or permanent distortions and during the test no deflections which could impair any of its characteristics.</p>	<p><u>Test weight: 20.2kg</u></p> <p><u>Complied</u></p> <p><u>Complied</u></p>	
9.5	Lifting	5-3	Pass
	<p>This test only applies to enclosures with provisions for lifting.</p> <p>The enclosure is loaded as in 9.4 and with its door closed, is lifted with the specified lifting means and in the manner defined by the enclosure manufacturer.</p> <p>From the standstill position, the enclosure is raised up three times in a vertical plane returning to the standstill position.</p> <p>The enclosure is raised up and suspended for 30 min at a height of ≥ 1 m for 30 min without any movement.</p> <p>Following this test, the enclosure is raised to a height of ≥ 1 m and moved $(10 \pm 0,5)$ m horizontally, then set down. This cycle, which</p>	<p><u>Test weight: 20.2kg</u></p>	

检测报告

TEST REPORT

TEST REPORT			
Clause number	Requirement – Test	Result – Remark	Verdict
	<p>should be carried out for 1 min \pm 5 s is repeated three times at uniform speed.</p> <p>After the test, with the test loads in place, the enclosure shall show no cracks or permanent distortions and during the test no deflections which could impair any of its characteristics.</p>	<p><u>Complied</u></p> <p><u>Complied</u></p>	
9.5	Lifting	5-4	Pass
	<p>This test only applies to enclosures with provisions for lifting.</p> <p>The enclosure is loaded as in 9.4 and with its door closed, is lifted with the specified lifting means and in the manner defined by the enclosure manufacturer.</p> <p>From the standstill position, the enclosure is raised up three times in a vertical plane returning to the standstill position.</p> <p>The enclosure is raised up and suspended for 30 min at a height of \geq 1 m for 30 min without any movement.</p> <p>Following this test, the enclosure is raised to a height of \geq 1 m and moved (10 \pm 0,5) m horizontally, then set down. This cycle, which should be carried out for 1 min \pm 5 s is repeated three times at uniform speed.</p> <p>After the test, with the test loads in place, the enclosure shall show no cracks or permanent distortions and during the test no deflections which could impair any of its characteristics.</p>	<p><u>Test weight: 28.2kg</u></p> <p><u>Complied</u></p> <p><u>Complied</u></p>	
9.5	Lifting	5-5	Pass
	<p>This test only applies to enclosures with provisions for lifting.</p> <p>The enclosure is loaded as in 9.4 and with its door closed, is lifted with the specified lifting means and in the manner defined by the enclosure manufacturer.</p> <p>From the standstill position, the enclosure is raised up three times in a vertical plane returning to the standstill position.</p> <p>The enclosure is raised up and suspended for 30 min at a height of \geq 1 m for 30 min without any movement.</p> <p>Following this test, the enclosure is raised to a height of \geq 1 m and moved (10 \pm 0,5) m horizontally, then set down. This cycle, which should be carried out for 1 min \pm 5 s is repeated three times at uniform speed.</p> <p>After the test, with the test loads in place, the enclosure shall show no cracks or permanent distortions and during the test no deflections which could impair any of its characteristics.</p>	<p><u>Test weight: 28.2kg</u></p> <p><u>Complied</u></p> <p><u>Complied</u></p>	

检测报告

TEST REPORT

TEST REPORT			
Clause number	Requirement – Test	Result – Remark	Verdict
9.7	Degree of protection against external mechanical impacts (IK code)	5-1	Pass
	IK <u>07</u> Impact energy: <u>2</u> (J) —Three times to each exposed surface in normal use whose largest dimension is not above 1 m —Five times to each exposed surface in normal use whose largest dimension is greater than 1 m After the test: 1. The enclosure shall continue to provide the IP code and dielectric strength; 2. Removable covers can be removed and reinstalled, doors opened and closed	<u>IK07</u> <u>2</u> <u>Complied</u> <u>Complied</u>	
9.7	Degree of protection against external mechanical impacts (IK code)	5-2	Pass
	IK <u>07</u> Impact energy: <u>2</u> (J) —Three times to each exposed surface in normal use whose largest dimension is not above 1 m —Five times to each exposed surface in normal use whose largest dimension is greater than 1 m After the test: 1. The enclosure shall continue to provide the IP code and dielectric strength; 2. Removable covers can be removed and reinstalled, doors opened and closed	<u>IK07</u> <u>2</u> <u>Complied</u> <u>Complied</u>	
9.7	Degree of protection against external mechanical impacts (IK code)	5-3	Pass
	IK <u>07</u> Impact energy: <u>2</u> (J) —Three times to each exposed surface in normal use whose largest dimension is not above 1 m —Five times to each exposed surface in normal use whose largest dimension is greater than 1 m After the test:	<u>IK07</u> <u>2</u>	

检测报告

TEST REPORT

TEST REPORT			
Clause number	Requirement – Test	Result – Remark	Verdict
	1. The enclosure shall continue to provide the IP code and dielectric strength; 2. Removable covers can be removed and reinstalled, doors opened and closed	<u>Complied</u> <u>Complied</u>	
9.7	Degree of protection against external mechanical impacts (IK code)	5-4	Pass
	IK <u>07</u> Impact energy: <u>2</u> (J) —Three times to each exposed surface in normal use whose largest dimension is not above 1 m —Five times to each exposed surface in normal use whose largest dimension is greater than 1 m After the test: 1. The enclosure shall continue to provide the IP code and dielectric strength; 2. Removable covers can be removed and reinstalled, doors opened and closed	<u>IK07</u> <u>2</u> <u>Complied</u> <u>Complied</u>	
9.7	Degree of protection against external mechanical impacts (IK code)	5-5	Pass
	IK <u>07</u> Impact energy: <u>2</u> (J) —Three times to each exposed surface in normal use whose largest dimension is not above 1 m —Five times to each exposed surface in normal use whose largest dimension is greater than 1 m After the test: 1. The enclosure shall continue to provide the IP code and dielectric strength; 2. Removable covers can be removed and reinstalled, doors opened and closed	<u>IK07</u> <u>2</u> <u>Complied</u> <u>Complied</u>	

检测报告

TEST REPORT

TEST REPORT			
Clause number	Requirement – Test	Result – Remark	Verdict
9.8	Degree of protection (IP code)	5-1	Pass
	<p>The degree of protection provided in accordance with 8.2.2 shall be verified in accordance with IEC 60529;</p> <p>IP <u>20</u></p> <p>First characteristic numeral:</p> <p>The jointed test finger of 12 mm Ø, 80mm length shall have adequate clearance form hazardous parts.</p> <p>Test force is: 10±1 N</p> <p>- The object probe, sphere of 12.5 mm Ø shall not fully penetrate</p> <p>Test force is: 30±3 N</p> <p>Second characteristic numeral:</p>	<p><u>2</u></p> <p><u>Complied</u></p> <p><u>10</u></p> <p><u>Complied</u></p> <p><u>30</u></p> <p><u>0</u></p>	
9.8	Degree of protection (IP code)	5-2	Pass
	<p>The degree of protection provided in accordance with 8.2.2 shall be verified in accordance with IEC 60529;</p> <p>IP <u>20</u></p> <p>First characteristic numeral:</p> <p>The jointed test finger of 12 mm Ø, 80mm length shall have adequate clearance form hazardous parts.</p> <p>Test force is: 10±1 N</p> <p>- The object probe, sphere of 12.5 mm Ø shall not fully penetrate</p> <p>Test force is: 30±3 N</p> <p>Second characteristic numeral:</p>	<p><u>2</u></p> <p><u>Complied</u></p> <p><u>10</u></p> <p><u>Complied</u></p> <p><u>30</u></p> <p><u>0</u></p>	
9.8	Degree of protection (IP code)	5-3	Pass
	<p>The degree of protection provided in accordance with 8.2.2 shall be verified in accordance with IEC 60529;</p> <p>IP <u>20</u></p> <p>First characteristic numeral:</p> <p>The jointed test finger of 12 mm Ø, 80mm length shall have adequate clearance form hazardous parts.</p> <p>Test force is: 10±1 N</p> <p>- The object probe, sphere of 12.5 mm Ø shall not fully penetrate</p> <p>Test force is: 30±3 N</p> <p>Second characteristic numeral:</p>	<p><u>2</u></p> <p><u>Complied</u></p> <p><u>10</u></p> <p><u>Complied</u></p> <p><u>30</u></p> <p><u>0</u></p>	

检测报告

TEST REPORT

TEST REPORT			
Clause number	Requirement – Test	Result – Remark	Verdict
9.8	Degree of protection (IP code)	5-4	Pass
	<p>The degree of protection provided in accordance with 8.2.2 shall be verified in accordance with IEC 60529;</p> <p>IP 20</p> <p>First characteristic numeral:</p> <p>The jointed test finger of 12 mm Ø, 80mm length shall have adequate clearance form hazardous parts.</p> <p>Test force is: 10±1 N</p> <p>- The object probe, sphere of 12.5 mm Ø shall not fully penetrate</p> <p>Test force is: 30±3 N</p> <p>Second characteristic numeral:</p>	<p>2</p> <p><u>Complied</u></p> <p>10</p> <p><u>Complied</u></p> <p>30</p> <p>0</p>	
9.8	Degree of protection (IP code)	5-5	Pass
	<p>The degree of protection provided in accordance with 8.2.2 shall be verified in accordance with IEC 60529;</p> <p>IP 20</p> <p>First characteristic numeral:</p> <p>The jointed test finger of 12 mm Ø, 80mm length shall have adequate clearance form hazardous parts.</p> <p>Test force is: 10±1 N</p> <p>- The object probe, sphere of 12.5 mm Ø shall not fully penetrate</p> <p>Test force is: 30±3 N</p> <p>Second characteristic numeral:</p>	<p>2</p> <p><u>Complied</u></p> <p>10</p> <p><u>Complied</u></p> <p>30</p> <p>0</p>	
9.9.3	Resistance to abnormal heat and fire	5-1 ~ 5-5	Pass
	<p>Compliance is checked by tests in accordance with the principles of IEC 60695-2-10 and the details of IEC 60695-2-11.</p> <p>The sample is stored for 24 h In an atmosphere having a temperature between 15 °C and 35 °C and a relative humidity of between 35 % and 45 % before starting the test.</p> <p>The temperature of the tip of the glow wire shall be as follows:</p> <p>—for parts intended to retain current-carrying parts in position: (960 ± 15) °C;</p> <p>—for parts intended to be installed in hollow walls: (850 ± 15) °C;</p> <p>—for all other parts, including parts not intended to retain current-carrying parts in position including the earth terminal and parts intended to be embedded in walls which are combustion-resistant : (650 ± 15) °C.</p> <p>The duration of application shall be (30 ± 1) s.</p>	<p><u>Complied</u></p> <p>—</p> <p>—</p> <p>650°C</p> <p>30s</p>	

检测报告

TEST REPORT

TEST REPORT			
Clause number	Requirement – Test	Result – Remark	Verdict
	The specimen is considered to have withstood the glow-wire test if —there is no visible flame and no sustained glowing, or if —flames and glowing of the specimen extinguish within 30 s after removal of the glow wire. There shall be no burning of the tissue paper or scorching of the pinewood board.	<u>No visible flame</u> <u>No ignition of the tissue paper</u>	
9.11	Continuity of the protective circuit	5-1	Pass
	It shall be verified that the different exposed conductive parts of the enclosure are effectively connected to the earthing terminal or contact of the protective circuit and that the resistance of the circuit does not exceed 0,1Ω.	<u>1.89mΩ (max)</u>	
9.11	Continuity of the protective circuit	5-2	Pass
	It shall be verified that the different exposed conductive parts of the enclosure are effectively connected to the earthing terminal or contact of the protective circuit and that the resistance of the circuit does not exceed 0,1Ω.	<u>2.05mΩ (max)</u>	
9.11	Continuity of the protective circuit	5-3	Pass
	It shall be verified that the different exposed conductive parts of the enclosure are effectively connected to the earthing terminal or contact of the protective circuit and that the resistance of the circuit does not exceed 0,1Ω.	<u>1.94mΩ (max)</u>	
9.11	Continuity of the protective circuit	5-4	Pass
	It shall be verified that the different exposed conductive parts of the enclosure are effectively connected to the earthing terminal or contact of the protective circuit and that the resistance of the circuit does not exceed 0,1Ω.	<u>2.50mΩ (max)</u>	
9.11	Continuity of the protective circuit	5-5	Pass
	It shall be verified that the different exposed conductive parts of the enclosure are effectively connected to the earthing terminal or contact of the protective circuit and that the resistance of the circuit does not exceed 0,1Ω.	<u>2.44mΩ (max)</u>	

检测报告

TEST REPORT

TEST REPORT			
Clause number	Requirement – Test	Result – Remark	Verdict
9.13	Resistance to corrosion	5-1 ~ 5-5	Pass
	<p>Ferrous metallic enclosures and external ferrous metallic parts of insulating and combined enclosures shall be tested to verify that they ensure protection against corrosion.</p> <p>If it is not possible to carry out the test on the enclosure, the test shall be carried out on enclosure elements showing the same constructional detail as the enclosure itself: material, thickness, layer of coating, etc. In all cases hinges, locks and fastenings shall be tested.</p> <p>The enclosure subjected to the test shall be mounted as for normal use according to the manufacturer's instructions.</p> <p>The enclosure or samples shall be new and in a clean condition.</p> <p>9.13.2 Test procedure</p> <p>Enclosures shall be subjected to the following test:</p> <p>9.13.2.1 Severity test A</p> <p>This test is applicable to:</p> <ul style="list-style-type: none"> — metallic indoor enclosures; — external metallic parts of indoor enclosures; <p>internal metallic parts of indoor and outdoor enclosures upon which intended mechanical operation may depend.</p> <ul style="list-style-type: none"> — 6 cycles of 24 h each to damp heat cycling test according to IEC 60068-2-30 at (Test Db) (40±3) °C and relative humidity of 95 %; — and 2 cycles of 24h each to salt mist test according to IEC 60068-2-11;(Test Ka: Salt mist), at a temperature of (35 ± 2)°C. <p>9.13.2.2 Severity test B</p> <p>This test is applicable to:</p> <ul style="list-style-type: none"> — metallic outdoor enclosures; — external metallic parts of outdoor enclosures. <p>The test comprises two identical 12 day periods. Each 12 day period comprises:</p> <ul style="list-style-type: none"> —5 cycles of 24 h each to damp heat cycling test according to IEC 60068-2-30 (Test Db) at (40±3) °C and relative humidity of 95 %; —and 7 cycles of 24h each to salt mist test according to IEC 60068-2-11; (Test Ka: Salt mist), at a temperature of (35 ± 2)°C. <p>9.13.3 Results to be obtained</p> <p>After the test, the enclosure or samples shall be washed in running tap water for 5 min, rinsed in distilled or demineralized water then</p>	<p>Complied</p> <p><u>6 days,40°C,95%</u></p> <p><u>2 days,35°C</u></p> <p>—</p> <p>—</p>	

检测报告

TEST REPORT

TEST REPORT			
Clause number	Requirement – Test	Result – Remark	Verdict
	<p>shaken or subjected to air blast to remove water droplets. The specimen under test shall then be stored under normal service conditions for 2 h.</p> <p>Compliance is checked by visual inspection to determine that:</p> <ul style="list-style-type: none"> —there is no evidence of iron oxide, cracking or other deterioration more than that allowed by ISO 4628-3 for a degree of rusting Ri1. However, surface deterioration of the protective coating is allowed. In case of doubt associated with paints and varnishes, reference shall be made to ISO 4628-3 to verify that the samples conform to the specimen Ri1; —the mechanical integrity is not impaired; —seals are not damaged; —doors, hinges, locks, fastenings and access means work without abnormal effort 	<p><u>Complied</u></p> <p><u>Complied</u></p> <p><u>Complied</u></p> <p><u>Complied</u></p>	

检测报告

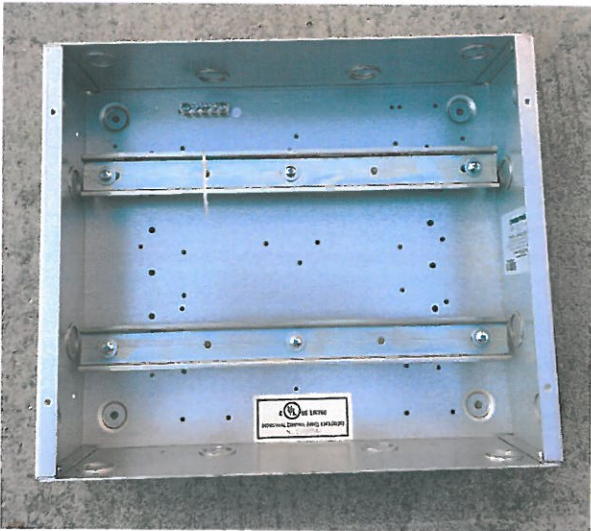
TEST REPORT

List of test photos

Sample No.:5-1, Specifications :DIN-EN-2×18



Front view



Internal structure

检测报告

TEST REPORT

Sample No.:5-2, Specifications :DIN-EN-3×18



Front view



Internal structure

检测报告

TEST REPORT

Sample No.:5-3, Specifications : DIN-EN-3×18-MMOE



Front view



Internal structure

检测报告

TEST REPORT

Sample No.:5-4, Specifications : DIN-EN-6×18



Front view

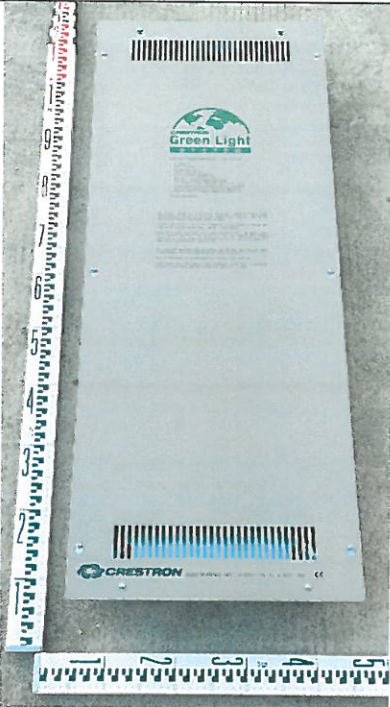


Internal structure

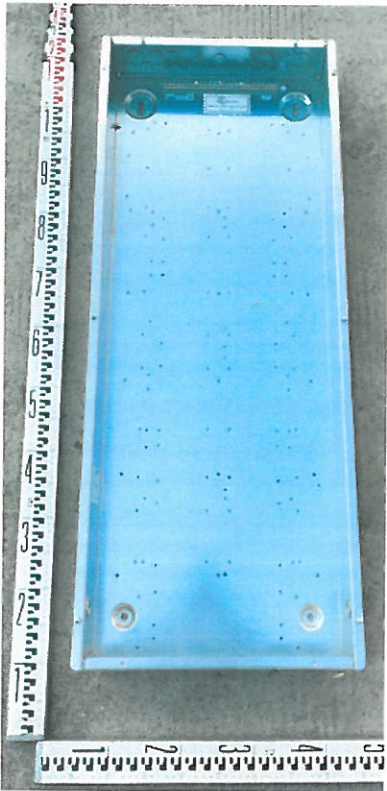
检测报告

TEST REPORT

Sample No.:5-5, Specifications : DIN-EN-6×18-MMOE



Front view



Internal structure

检测报告

TEST REPORT

Sample No.:5-1, Specifications :DIN-EN-2×18



Marking

检测报告

TEST REPORT

Notations:

1. Test address: No.68, XiHudong Road, ShiLong Town Dongguan City Guangdong Province, China
 2. Consigner address and postcode: 15 Volvo Dr, Rockleigh Nj 07647,United States
 3. Test ambient condition:Temperature: (17.0~25.0) °C, humidity: (40~58) %, other: -----
 4. Sampling sequence (when applicable):-----
 5. Explanation for deviation from the Standards (when applicable):-----
 6. Explanation for uncertainty of test results (when applicable):-----
 7. Sub-contracted items (when applicable):-----
-