

CSATEST REPORT Electrical Equipment Master Contract-Report-Project: 260274-C386213-4847778





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Date of issue:	August 31, 2015		
Applicant:	Hangzhou Hikvision Digital Technology Co., Ltd.		
Address:	No.555 Qianmo Road, Binjiang District Hangzhou 310052, China		
Standard:	NEMA 250-2014 Enclosures for Electrical Equipment(1000 Volts Maximum).		
Test Report Form No:	N/A		
Test report Originator:	CSA.		
Test procedure:	WMTC		
Non-standard test method:	N/A		
Type of test object:	Intelligence Dome Camera, Speed dome		
Trademark:	HIKVISION		
Model/type reference:	(i)DS-2AB6VWXYZ-JKLMN		
Manufacturer:	Same as applicant		
Address:	No. 700 Dongliu Road, Binjiang District, Hangzhou 310052, China		
Rating:	24V ac, 60W max		



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HISTORY

Edition 1: August-31-15; CSA Project 260274-C386213-4847778, Shanghai Issued by Alvin Kuang				
CB Testing Laboratory	CSA INTERNATIONAL			
Address	CCIC-CSA International Certification Co., Ltd. Shanghai Branch			
Testing location	1st Floor, Building 4, Qilai Industrial City, 889 Yishan Road, Shanghai, 200233 China			
Testing location/procedure	. CBTL RMT SMT WMTC MTP			
Test By	Gao Hui	Gias Hui		
Approved By	Alvin Kuang	Alinthong		
Address	Jiangsu Electronic Information Product Quality Supervision & Inspection Institute No.100 Jinshui Road, WuXi, Jiangsu, P.R.China			



Intelligence Dome Camera (i)DS-2AB6VWXYZ-JKLMN

Item No.	Enclosure Material	Material No.	Sample quantity	Remarks
(i)DS-2AB6VWXYZ- JKLMN	Steel Institute(AISI) Type 316 stainless steel	505717168	1	Non-ventilated and no opening

1.Test Summary

Item	Test Specification		
1.Waterproof Test(Hosedown)	Quantity:1Test Condition: The test method is described in NEMA 250-2014. According to the Section 5.7.1, the enclosure and its external mechanisms shall be subjected to a stream of water from a hose 	Pass	



	Quantity: 1	
2.External Icing Test	Quantity:1Test Condition:The test method is described in NEMA 250-2014.According to the Section 5.6.1, the enclosure shall be mountedin a room which can be cooled to $-7 \mathbb{C}$. A metal test bar that is25.4 mm in diameter by 600 mm long shall be mounted in ahorizontal position in a location where it will receive the samegeneral water spray as the enclosure under test.Provisions shall be made for spraying the entire enclosure fromabove with water at an angle of approximately 45 degrees fromvertical. The water shall be between $0 \mathbb{C}$ and $3 \mathbb{C}$.The room temperature shall be lowered to $35 \mathbb{F}$. The spray ofwater shall be started and continued for at least one hour,maintaining the room temperature between $1 \mathbb{C}$ and $3 \mathbb{C}$. At theend of this time, the room temperature shall be lowered tobetween $-7 \mathbb{C}$ and $-3 \mathbb{C}$ while continuing the water spray. (Therate of change in the room temperature is not critical and shall bewhatever is obtainable within the given range, with the coolingmeans employed.) The water spray shall be controlled so as tocause ice to build up on the bar at a rate of approximately 6.35mm/hour and shall be continued until 20 mm of ice has formedon the top surface of the bar. The spray shall then bediscontinued, but the room temperature shall be maintainedbetween $-7 \mathbb{C}$ and $-3 \mathbb{C}$ for 3 hours to assure that all parts of theenclosure and ice coatings have been equalized to a constanttemperature. Test Criterion: According to the Section 5.6.2, Types 4X enclosure	Pass
3.Outdoor Corrosion protection Test	Quantity:1Test Condition: The test method is described in NEMA 250-2014. According the Section 5.8, 5.9 and 5.10, the sample shall be subjected to the test describe below, The test apparatus shall consist of a fog chamber, a salt-solution reservoir, a supply of compressed air, atomizing nozzles, support for the enclosure, provision for heating the chamber, and means of control. It shall not permit drops of solution that accumulate on the ceiling or cover of the chamber to fall on the enclosure being tested, shall not permit drops of solution that fall from the enclosure to be 	Pass



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weight of salt in 95 parts by weight of either distilled water or	
water containing not more than 200 parts per million of total	
solids. The salt shall be sodium chloride that is substantially free	
of nickel and copper and that contains, when dry, not more than	
0.1 percent of sodium iodide and not more than 0.3 percent of	
total impurities.	
The compressed air supply to the nozzle(s) for atomizing the	
salt solution shall be free of oil and dirt and shall be maintained	
between 69 and 172 kPa.	
The temperature of the salt spray chamber shall be maintained	
between 33 °C and 36 °C (92 °F and 97 °F). The nozzle(s) shall be	
directed or baffled so that none of the spray can impinge directly	
on the enclosure being tested.	
The chamber shall be closed and the spray operated	
continuously except for the short daily interruption necessary to	
inspect, rearrange, or remove the test specimens, to check and	
replenish the solution in the reservoir, and to make necessary	
recordings.	
The test shall be conducted continuously for 200 hours. At the	
end of the test, the specimens shall be removed from the	
chamber and washed in clean running water not warmer than	
38 $^{\circ}$ C (100 F) to remove salt deposits from their surface, and	
then dried immediately. Corrosion products, other than rust,	
shall be permitted to be removed by light brushing if required, to	
observe the condition of the underlying stratum.	
Test Criterion:	
According to the Section 5.10.1, an enclosure shall be	
considered to have met the requirements of this test if upon	
completion it does not show pitting, cracking.	

2.Test Equipments

Name	Mode/Type	Serial No.	Cal.
Humidity test chamber	PHV1614- DW	09102801	2014.12.29-2015.12.28
Salt corrosion chamber	NQ-0250	20148	2014.9.3-2015.9.2
Water jet equipment	RPS	20110212	2015.02.15-2016.02.14



3.Testing photos



Fig.1 sample1#(during waterproof test)

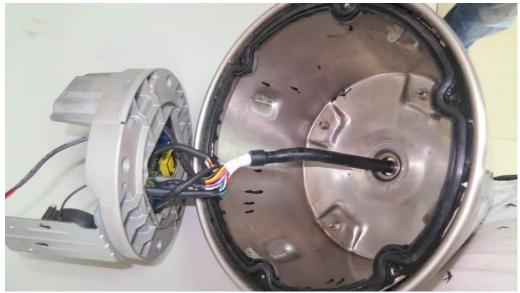


Fig.2 sample1#(after waterproof test)

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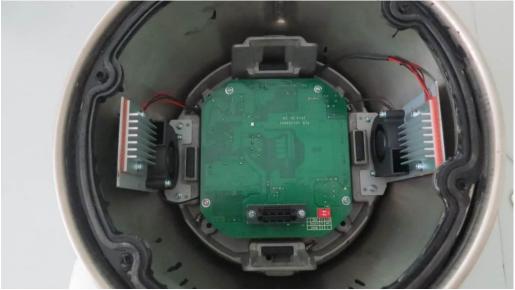


Fig.3 sample1#(after dust and waterproof test)



Fig.4 sample1#(after dust and waterproof test)





Fig.5 sample1#(before external icing test)



Fig.6 sample1#(during external icing test)





Fig.7 sample1#(after external icing test)



Fig.8 sample1#(before outdoor corrosion test)

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Fig.9 sample1#(during outdoor corrosion test)



Fig.10 sample1#(after outdoor corrosion test)

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