

Technical Report No.: 704202401354-00

Date: 2024-03-12

Client: Name: Hangzhou Hikvision Digital Technology Co., Ltd.
Address: No.555 Qianmo Road, Binjiang District, 310052
Hangzhou, Zhejiang, PEOPLE'S REPUBLIC OF CHINA
Contact person: yuanhaiyang6@hikvision.com

Manufacturer: Name: Hangzhou Hikvision Digital Technology Co., Ltd.
Address: No.555 Qianmo Road, Binjiang District, 310052
Hangzhou, Zhejiang, PEOPLE'S REPUBLIC OF CHINA
Contact person: yuanhaiyang6@hikvision.com

Factory: Name: 1. Hangzhou Hikvision Electronics Co., Ltd.
2. Hangzhou Hikvision Technology Co., Ltd.
3. Chongqing Hikvision Technology CO., Ltd.
Address: 1. No. 299, Qiushi Road, Tonglu Economic
Development Zone, 311500 Tonglu County, Hangzhou,
PEOPLE'S REPUBLIC OF CHINA
2. No.700 Dongliu Road, Binjiang District, 310052
Hangzhou, Zhejiang, PEOPLE'S REPUBLIC OF CHINA
3. No. 118, Haikang Road, Area C, Jianqiao Industrial
Park, Dadukou District, 401325 Chongqing, PEOPLE'S
REPUBLIC OF CHINA
Contact person: --

Test object: Product: Ethernet Switch
Model: DS-3E0524-E(C), DS-3E0524-E(C)UHK,
DS-3E0524-E(C)CKV, DS-3E0524-E(C)UVS,
DS-3E0524-E(C)KVO, DS-3E0524-E(C)HUN
Trade mark: **HIKVISION**

Test specification: EN 62368-1:2014
EN 62368-1:2014/A11:2017

Purpose of examination: Testing for compliance with specified requirements to assess conformity with the German Product Safety Act – ProdSG (27 July 2021)



- Testing for compliance with specified requirements to assess conformity with the essential safety and health requirements of the following European Directives:
 - ☒ Low Voltage Directive 2014/35/EU
 - ☐ Machinery Directive 2006/42/EC
 - ☐ Machinery Regulation (EU) 2023/1230
 - ☐ General Product Safety Directive 2001/95/EC
 - ☐ General Product Safety Regulation (EU) 2023/988
 - ☐ Radio Equipment Directive 2014/53/EU Art. 3.1(a)
 - ☐ Battery Regulation (EU) 2023/1542
- Testing and evaluation according to the test specification

Test result: The test results show that the presented product is in compliance with the above listed test specifications.

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1. Description of the test object

1.1 Picture(s)

Refer to CB test report 083-2401353-000 attachment No. 3

1.2 Function

The appliance is Ethernet Switch, with switching mode power supply and function board, housed by metal enclosure.

The product supplied by approved built-in supply unit, which has been certified separately.

The appliance used indoor for general purpose under dry condition.

Maximum ambient temperature (T_{ma}) permitted by the manufacturer's specification is 40°C.

Manufacturer's specification for intended use:

(According to the user manual)

1.3 Consideration of the foreseeable use

- ☐ Not applicable
- ☒ Covered through the applied standard
- ☐ Covered by the following comment*
- ☐ Covered by attached risk analysis

*

1.4 Technical Data

In case of functional safety of safety-related control systems (SCS):

- Listing of the software revision number(s) of all safety-related software

The following list of critical data is just an example and could be changed based on exact product type.



Model	See Page 1
Rated Input	100-240V~, 50/60Hz, Max.0.7A
Protection Class	<input checked="" type="checkbox"/> Class I; <input type="checkbox"/> Class II; <input type="checkbox"/> Class III
Degree of Protection	IP X0 Degrees of Protection Provided by Enclosure (IP Code) <input type="checkbox"/> Stationary <input checked="" type="checkbox"/> Portable
Construction	<input type="checkbox"/> Hand-held <input type="checkbox"/> Open-frame <input type="checkbox"/> Non detachable cord
Supply connection	<input type="checkbox"/> Permanent connection to fixed wiring <input checked="" type="checkbox"/> Appliance inlet <input type="checkbox"/> Not directly connected to the mains
Operation mode	<input checked="" type="checkbox"/> continuous operation; <input type="checkbox"/> Intermittent operation; <input type="checkbox"/> Short time operation;
Weight (kg)	Approx. 1.4kg

2. Order

2.1 Date of Purchase Order, Customer's Reference

2024-02-27

2.2 Test Sample(s)

- Reception date(s): 2024-02-27
- Location(s) of reception: TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch
No. 1999, Duhui Road, Shanghai, 201108, P. R.
China
- Condition of test sample(s): Normal

2.3 Testing

- Testing date(s): 2024-02-27 to 2024-03-12
- Location(s) of testing: TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch
No. 1999, Duhui Road, Shanghai, 201108, P. R.
China

2.4 Points of Non-Compliance or Exceptions of the Test Procedure

- None

3. Test Results

☒ Decision rule according to ILAC-G8:09/2019 clause 4.2.1 Binary statement for simple acceptance rule or IEC Guide 115:2023, clause 4.3.3 Simple acceptance was applied.

☐ Decision rule according to customer's requirements was applied. It is:

☐ Decision rule according to ILAC-G8:09/2019 clause 4.2.2 Binary statement with guard band - guard band length = 95 % extended measurement uncertainty, was applied.

☐ Decision rule (based on ILAC-G8:09/2019 clause 4.2.3 Non-binary statement with guard band, guard band length = 95 % extended measurement uncertainty) for an upper specification limit (A lower limit or specification with an up-per and a lower limit is treated similarly.):

- Compliance with the requirement: If a specification limit is not breached by a measurement result plus the expanded uncertainty with a 95% coverage probability, then compliance with the specification will be stated (e. g. Pass).
- Non-compliance with the requirement: If a specification limit is exceeded by the measurement result minus the expanded uncertainty with a 95% coverage probability, then non-compliance with the specification will be stated (e. g. Fail).
- Inconclusive result: If a measurement result plus/minus the expanded uncertainty with a 95 % coverage probability overlaps the limit it will be stated that it is not possible to state compliance or non-compliance.

☐ There are no statements to conformity or no results with measurand stated in this report, no decision rule has been applied.

3.1 Positive Test Results

Test specification(s)	Report no. / Rev. No.	Date	Remark
Electrical safety:	083-2401353-000	2024-03-12	N/A

3.2 Points of Non-Compliance according to the test specification

☒ None



4. Test History

N/A

5. Remarks

5.1 General

The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.

5.2 Factory surveillance cycle

Your production facility is currently on the following surveillance cycle.

- ☐ Annual (12 month)
- ☐ Bi-Annual (6 month)
- ☐ Quarterly (3 month)
- ☒ N/A

5.3 Additional information for routine tests to be performed by the factory(ies)

Routine tests for electrical appliances / equipment:

Routine test requirements for production are described in EN 62368-1:2014/A11:2017

☒ Required

☐ Not Required

Reason for non-requirement:

☐ Class III product

☐ Other:

Test Details:

☒ Dielectric Strength

☒ Ground Continuity

☐ Insulation Resistance

☐ Leakage Current

☐ Touch Current

Test Points:

BI: L/N – Plastic enclosure

RI: L/N – Secondary Circuit

Earth to farthest metal

BI: L/N – Chassis

RI: L/N – Secondary

Ground - PE

Test Values / Limit(s):

2500 Vdc

4000 Vdc

32 A ; $t \geq 1$ s ;
 $R < 0.1$ Ohm (Ω)

Vdc
 $R > 2$ MOhm (M Ω)

Vdc

mA

mA



☐ Polarity

☐ Other:

Routine tests for mechanical testing:

Routine test requirements for production are described in:

☐ Load test

☐ Pressure test

☐ Check of safety-relevant measurements / measurands

List of safety-relevant measures which shall be checked:

☐ Final check by assembling

☐ Functional check

☐ Other:

Routine test for functional safety (SCS) testing:

☐ Verification that the tested software version no. will be installed in the test object (see CDF)

☐ Verification that the SCS components are unchanged (see CDF).

6. Documentation

File	File name	Date
Data form (CDF):	083-2401353-000	2024-03-12
Photo documentation:	083-2401353-000	2024-03-12
User manual:	083-2401353-000	2024-03-12
Installation manual:	083-2401353-000	2024-03-12

7. Summary

"The test specification(s) is (are) met"



TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Tested by:

Wang Lichen

(Project Handler)

printed name, function & signature

Approved by:

Jiang Dajun

(Designated Reviewer)

printed name, function & signature

--- End of Report ---