

S P E C I F I C A T I O N

943-1C-12DS-10A

1. COIL DATA (线圈参数)

1.1	Nominal Voltage (额定电压)	12VDC
1.2	Coil Resistance (线圈电阻)	400Ω±10% at 20°C
1.3	Nominal Current (额定电流)	30mA±10% at 20°C
1.4	Operating Voltage (感动电压)	9VDCMax. at 20°C
1.5	Release Voltage (释放电压)	1.2VDCMin. at 20°C
1.6	Maximum Voltage (最大电压)	15.6VDC at 20°C
1.7	Start characteristics in high temperature be condition (高温条件下启动特性)	The coil contact rated current shall 11.4 VDC or less passed to the contact at an ambient temperature of 40°C for 2h contact shall be turned off and pick-up voltage of the relays immediately measured at the same atmospheres. (继电器在环境温度 40°C 持续 2 小时吸合, 断开后在同样环境下立即测试感动电压)
1.8	Nominal Power Consumption (线圈功耗)	360mW

2. CONTACT DATA (接点参数)

2.1	Contact Arrangement (接点形式)	1 Form C
2.2	Contact Material (接点材质)	Ag Alloy
2.3	Contact Rating (接点负载)	10A/277VAC 12A/30VDC
2.4	Max. Switching Voltage (最大通断电压)	277VAC(10A) 30VDC(12A)
2.5	Max. Switching Current (最大通断电流)	15A
2.6	Max. Switching Power (最大功率)	2770VA 360W
2.7	Min. Switching Current (最小通断电流)	100mA 5VDC
2.8	Contact Resistance (Initial Value) (接触电阻 (初始数值))	Max. 100mΩ (6VDC 1A)
2.9	Life Expectancy (寿命)	
	Electrical (电气寿命)	100,000 operations (frequency 360 operations/hr)
	Mechanical (机械寿命)	10,000,000 operations (frequency 18,000 operations/hr)

3. GENERAL DATA (基本参数)

3.1	Insulation Resistance (绝缘电阻)	Min. 100MΩ 500VDC
3.2	Dielectric Strength (介质耐压)	Trip current : 2mA Measuring frequency: 50/60Hz Testing transformer capacity: 500VA 750VAC 1min. 1500VAC 1min.
	Between Open Contact (接点间)	
	Between Contact and Coil (线圈与接点间)	
3.3	Surge Strength (冲击电压)	2500V
3.4	Operate Time (动作时间)	Max. 10ms
3.5	Release Time (开放时间)	Max. 5ms.
3.6	Operate Temperature Range (环境温度)	- 40°C ~ +85°C(No freezing 无结冰)
3.7	Relative Humidity (环境湿度)	85% at40°C
3.8	Terminal Strength (端子强度)	10N for 10 ±1Sec. by pushing and pulling the relay terminal Without looseness or bending of terminal. Clause 1.4-1.5,2.8,3.1-3.5 shall be satisfied
3.9	Shock Resistance (抗冲击) Endurance (耐久冲击性试验)	1000m/s ² ,5 shock (each direction of X,Y,Z) (a total 15 shock) Duration of the pulse: 6mm For Other procedures, refer to IEC Pub.68-2-27 Without deformation of case or excessive Looseness of terminals, Clause 1.4-1.5,2.8,3.1-3.5 shall be satisfied.
	Misoperation (误动作试验)	100m/ s ² ,3 shock(each direction of X,Y,Z) (a total 9 shock) Duration of the pulse: 6mm refer to IEC Pub.68-2-27 There shall be no contact chatter time for 1ms or more.
3.10	Vibration Resistance (抗振动) Endurance (耐久振动性试验)	Double amplitude 1.5mm,10-55Hz/min. 2h (each direction of X,Y,Z) refer to IEC Pub.68-2-27 Without deformation of case or excessive Looseness of terminals, Clause 1.4-1.5,2.8,3.1-3.5 shall be satisfied. For Other procedures, refer to IEC Pub.68-2-27
	Misoperation (误动作性试验)	Double amplitude 1.5mm.10-55Hz/min.5min. (each direction of X,Y,Z) refer to IEC Pub.68-2-27 There shall be no contact chatter time for 1ms or more.

- 3.11 Cold (耐寒)** - 40 ±3°C for 96h (refer to IEC Pcb.68-2-2)
Contact resistance 100mΩ or less.
1.4-1.5, 3.1-3.5 shall be satisfied.
- 3.12 Dry Heat (耐热)** 85 ±2°C for 96h (refer to IEC Pcb.68-2-2)
Contact resistance 100mΩ or less.
1.4-1.5, 3.1-3.5 shall be satisfied.
- 3.13 Damp Heat (耐湿性试验)** 40 ±2 °C ,90-95% for 96h
For other procedures refer to IEC Pcb.68-2-3
Contact resistance 100mΩ or less.
Insulation resistance 1000MΩ or more.
1.4-1.5, 3.1-3.5 shall be satisfied.
- 3.14 Solderability (可焊性)** Solder should be finished on dipped surface
bath melted 260 °C ±5°C for 5 sec. or 90% of he
dipped portion shall be solder at 235 ±5°C for 5
sec.
- 3.15 Resistance to Soldering Heat (耐锡热能力)** No trouble on construction and relay
performance when the relay terminal is dipped
in the soldering bath of melted solder at
260 °C ±5°C for 10 ±1 sec. or 350°C for 3 sec.
Immersion depth: 2 ±0.5mm from pieces parts
Thickness of Printed wiring board: 1.6mm
Test method ;
- 3.16 Resistance to sulfuration (耐硫化)** Mixing concentration : SO₂ 10ppm + H₂S 3ppm
Temperature (温度): 40°C
Humidity (湿度): 75%
Time (时间): 72 hours
Contact resistance value shall be relative to
twice or less to the value before the test.
- 3.17 Weight (重量)** 10g approximately
- 3.18 Safety Standard (安规论证)** UL 编号:E162117
TUV 编号:R50048093
CQC 编号:CQC02001001785

3.19 Environment-related substance to be Controlled (与环境有关的实质内容加以控制)

- ***Cadmium and cadmium compounds** (镉和镉化合物)
- ***Lead and lead compounds** (铅和铅化合物)
- ***Hexavalent chromium compounds** (六价铬化合物)
- ***PCB** (多氯联苯)
- ***PCN** (多氯化萘)
- ***CP** (氯代烷烃)
- ***Mirex(Perchlordecone)** (灭蚁灵)
- ***Other chlorinated organic compounds** (其它有机氯化物)
- ***PBB** (多溴联苯)
- ***PBDE** (多溴联苯醚)
- ***TBBP-A-bis** (四溴双酚-A-双(2,3,二溴丙醚))
- ***Other brominated organic compounds** (其它有机溴化合物)
- ***Organic tin compounds (Tributyl tin compounds, Triphenyl Tin compounds)**
有机锡化合物 (三丁锡化合物, 三苯锡化合物)
- ***Asbestos** (石棉)
- ***Azo compounds** (偶氮化合物)
- ***Formaldehyde** (甲醛)
- ***PVC and PVC blends** (聚氯乙烯和聚氯乙烯化合物)

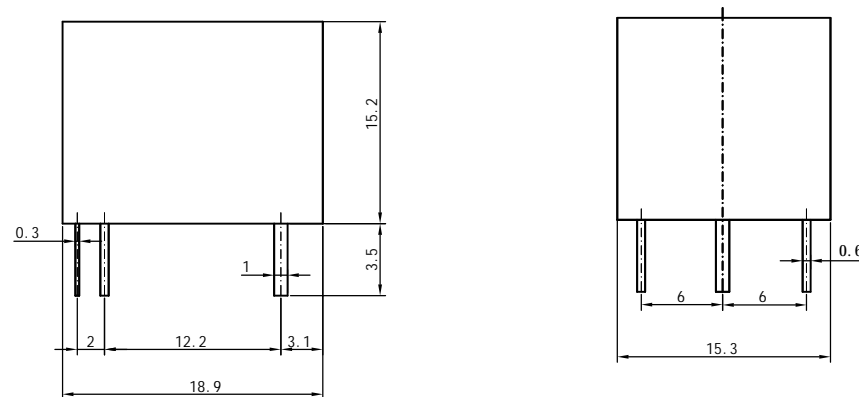
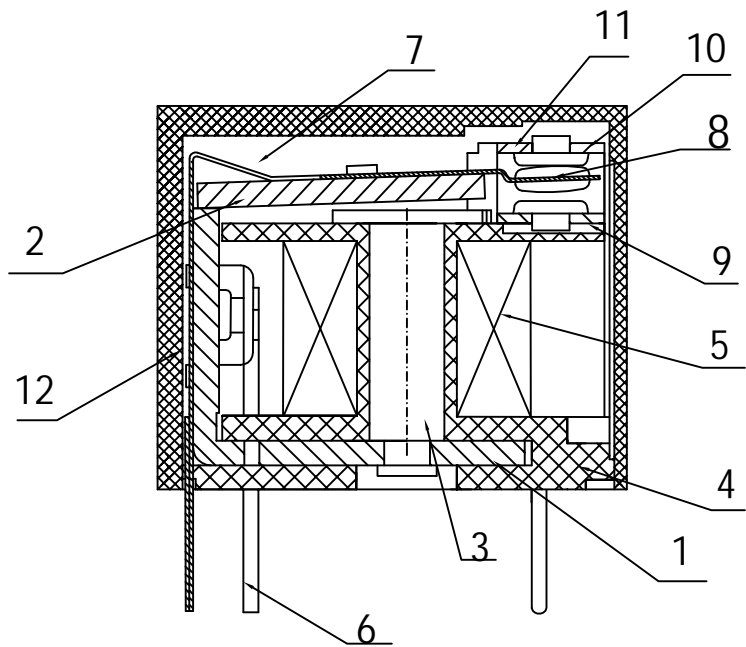
NOTICE ON MATERIAL AND MANUFACTUREING PROCESS

●Don't change written contents and append them

1. This part should not contain any substances which are specified in SS-00259-1*
2. Clarify by delivery specifications about the existence of use of the substance which are specified in SS-00259-1*
3. In order to make sorting of plastic waste easy ,material symbols is marked on the plastic part .For details on marking symbols ,refer to SS-00195-1 "Marking of plastic parts and Packaging material". Marking may be omitted in the following cases:
 - I Not enough space to apply the marking;
 - I Marking would interfere with performance or functional requirements;
 - I Marking technically not feasible due to specific production method.
4. Purchase ink, paint, wire rods, and molding resins only from the business partners that Sony approves as Green Partners.

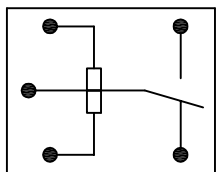
※ SS-00259-1: Management Standards for the Restrictively-used Substances included in Parts and Devices

Remark: If the supplier does not yet have a copy of SS-00195-1 and 00259-1, the local purchasing department will provide it.

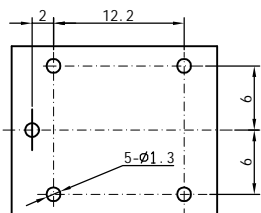


Outline Dimensions
(外形尺寸)

Dimensions: $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$
 尺寸公差: $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$



Circuit diagram
(接线图)

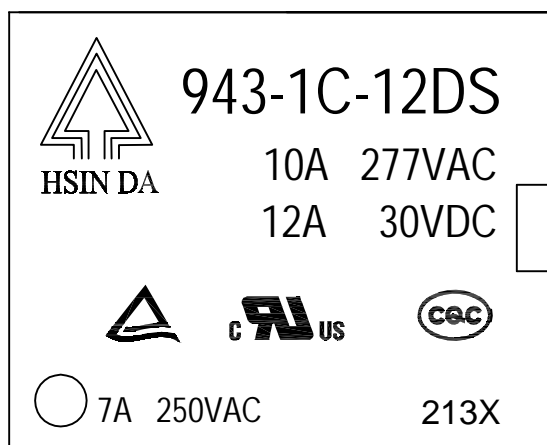


Assembling
(孔位置图)

The tolerance of PCB thru hole: $\pm 0.2\text{mm}$
 印刷电路板孔: $\pm 0.2\text{mm}$

12	Dust cover (外盖)	1	PBT	
11	NC Contact terminal (NC接点端子)	1	H62 (黄铜)	
10	Stationary contact (平接点)	2	Ag Alloy (银合金)	
9	NO Contact terminal (NO接点端子)	1	H62 (黄铜)	
8	Movable contact (中接点)	1	Ag Alloy (银合金)	
7	Movable contact arm spring (中弹片)	1	Q Sn (磷青铜)	
6	Bobbin terminal (线轮端子)		Copper alloy solder plated (铜包钢线)	
5	Copper wire (线圈)		3UEW (铜+聚酯漆)	
4	Bobbin (线轮)	1	PBT	
3	Core (铁芯)	1	DT4C (纯铁)	
2	Armature (磁极)	1	DT4E (纯铁)	
1	Yoke (支架)	1	DT4E (纯铁)	
NO.	Name (名称)	pcs	Material (材质)	Remark (备注)

943 MARKING(印刷图)



943: Model number(型号)

1C : Contact Arrangement = 1 Form C(接点形式)

12 : Coil voltage = 12V(额定电压)

D : Coil type = DC(线圈形式)

S : Sealed Type (密封型)

10A 277VAC }
12A 30VDC } Contact Rating(接点负载)
7A 250VAC }

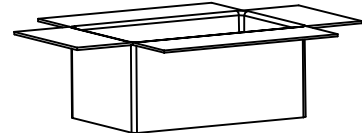
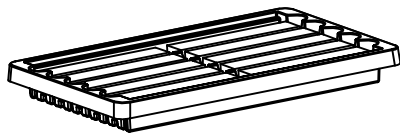
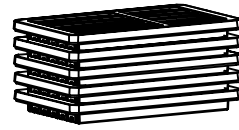
2 : Year(年)

1 : Month(月)

3 : Week (周)

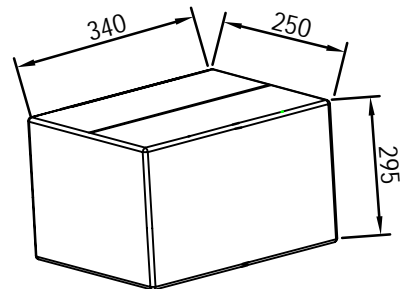
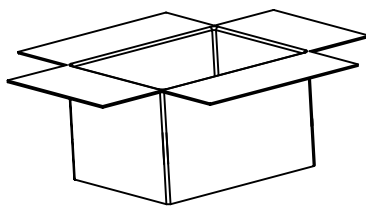
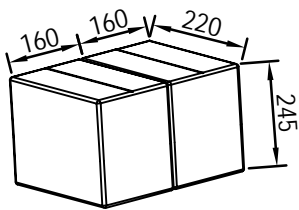
X : Production line A-Z(产线代码A-Z)

943 PACKING (包装图)



50 Pieces in one Packing Box

500 Pieces in one inside box
10 Packing Box in One inside box



1000 Pieces in one carton
2 box in One carton

序号	品名	材质
1	Packing Box 包装盒	包装盒上盖: 透明PET 包装盒下盒: 透明PET
2	Inside box 内箱	瓦楞纸板
3	Out Carton 外箱	瓦楞纸板

CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L162117-21-41214991-1
Report Reference E162117-19941214
Date 27-Jul-2021

Issued to: HSIN DA PRECISION CO LTD
10TH FL
951 CHUNG CHENG RD
CHUNG HO DIST NEW TAIPEI
Taiwan 235

This is to certify that representative samples of NRNT2 - Switches, Industrial Control - Component
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: UL 508

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>

CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L162117-21-41214991-1
Report Reference E162117-19941214
Date 27-Jul-2021

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
943, followed by 1A, 1B, or 1C, followed by 3 through 48, followed by D, may be followed by S, may be followed by F	Industrial Control Switches



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L162117-51-41214991-1
Report Reference E162117-19941214
Date 27-Jul-2021

Issued to: HSIN DA PRECISION CO LTD
10TH FL
951 CHUNG CHENG RD
CHUNG HO DIST NEW TAIPEI
Taiwan 235

This is to certify that representative samples of NRNT8 - Switches, Industrial Control Certified for Canada - Component
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: CSA C22.2 No. 14-18

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-L162117-51-41214991-1
Report Reference E162117-19941214
Date 27-Jul-2021

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
943, followed by 1A, 1B, or 1C, followed by 3 through 48, followed by D, may be followed by S, may be followed by F	Industrial Control Switches



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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Hsin Da Precision Co., Ltd.
Mr. Kejaw Huang, Vice General
Manager

Date : 11.10.2004
Our ref. : VWW ZTW2
Your ref.: 12014844/KH

10F, No. 951
Chung Cheng Rd.
Chung Ho City, Taipei Hsien 235
Taiwan, R.O.C.

OCT 12 2004

Ref : R TÜV-Mark Approval

Type of Equipment : (All-or-Nothing Electrical Relay)
Model Designation : See Certificate
Certificate No. : R 50048093 0001
Report No. : 11001469 002

Dear Mr. Kejaw Huang,

The above specified technical equipment has been tested and found to be in accordance with the relevant requirements.

Enclosed you will find the certificate of approval.

If cancellation of the certificate is submitted by November 15 in a given year, no fee will be charged for the following year.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

Please contact our office for approval of your new products.

With kind regards,

Certification Body

Dipl.-Ing. M. Kröger

Enclosure

TÜV RHEINLAND TAIWAN LTD.

7F, No. 2, Min-Chuan E. Rd., Sec.3,
Taipei 104, Taiwan, R.O.C.
Tel. (02) 2516-6040
Fax (02) 2504-5040
<http://www.twn.tuv.com>

TAICHUNG BRANCH:
10F, No. 219, Min-Chuan Rd.,
Taichung 403, Taiwan, R.O.C.
Tel. (04) 2301-9898
Fax (04) 2301-9696

KAOHSIUNG BRANCH:
33F-3, No. 80, Min-Tzu 1st Rd.,
Kaohsiung 807, Taiwan, R.O.C.
Tel. (07) 380-1722
Fax (07) 380-1728

NANKANG BRANCH:
No. 99-23, Nan-Kang Rd., Sec. 2,
Taipei 115, Taiwan, R.O.C.
Tel. (02) 2783-6650
Fax (02) 2783-7117

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50048093

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Ihr Zeichen *Client Reference*
12014844/KH

Unser Zeichen *Our Reference*
ZTW2-VWW- 11001469 002

Ausstellungsdatum
11.10.2004

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*
Hsin Da Precision Co., Ltd.
10F, No. 951
Chung Cheng Rd.
Chung Ho City, Taipei Hsien 235
Taiwan, R.O.C.

Fertigungsstätte *Manufacturing Plant*
Liyun Xinda Precision Electronics
Co., Ltd.
No.135, King Wu Road
Kunlun Economic Development
Zone of Liyang, Jiangsu 00000
P.R. China

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*



BAUART
GEPRÜFT
TYPE
APPROVED

EN 61810-1:1998
EN 61810-5:1998
EN 60255-23:1996

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (All-or-Nothing Electrical Relay)

Bezeichnung : 943-1C-12D
(Type Designation)

5

Bemessungsspannung der Spule: DC 12V
(Rated Voltage of Coil)

Bemessungsdaten der Kontakte: AC 125V/ 12A, AC 250V/7A oder
(Rated Values of Contacts) (or) DC 30V/7A

Elektrische Lebensdauer : 10,000/1,800 (AC 125V/12A)
(Electrical Lifetime) 50,000/1,800 (AC 250V/7A oder
DC 30V/7A)

Mechanische Lebensdauer : 5,000,000/18,000
(Mechanical Lifetime)

Umgebungstemperatur : -30 bis (up to) 60°C
(Ambient Temperature)

Schutzart : IP00
(Protection Degree)

Anbringungsart : Leiterplattenmontage
(Kind of Installation) (PCB mounting)



5

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althoff@de.tuv.com

Dipl.-Ing. M. Kröger

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50048093

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0002

Ihr Zeichen *Client Reference*
12014844/KH

Unser Zeichen *Our Reference*
ZTW2-VWW- 11001469 002

Ausstellungsdatum
11.10.2004

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Hsin Da Precision Co., Ltd.
10F, No. 951
Chung Cheng Rd.
Chung Ho City, Taipei Hsien 235
Taiwan, R.O.C.

Fertigungsstätte *Manufacturing Plant*

Liyan Xinda Precision Electronics
Co., Ltd.
No.135, King Wu Road
Kunlun Economic Development
Zone of Liyang, Jiangsu 00000
P.R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 61810-1:1998
EN 61810-5:1998
EN 60255-23:1996

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (All-or-Nothing Electrical Relay)

Wie Blatt (As Page) 01

Ergänzung (Addition)

Bezeichnung (Type Designation)	: 943-1X1-X2DX3-X4 series	1
X1 steht für (stands for)	: A, B, oder (or) C	1
X2 steht für (stands for)	: DC 3, 5, 6, 9, 12, 24 oder (or) 48 (V)	1
X3 steht für (stands for)	: S oder freibleibend (blank)	1
X4 steht für (stands for)	: F oder freibleibend (blank)	1

Bemessungsspannung der Spule: siehe Anlage
(Rated Voltage of Coil) (see appendix)



5

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above-mentioned requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althoff@de.tuv.com

Dipl.-Ing. M. Kröger

Industrial Services, Mobility and Transport,
Product Safety and Quality, Education and
Consulting, IT Services and Innovation



TÜV Rheinland Group

Hsin Da Precision Co., Ltd.
Mr. Kejaw Huang, Vice General
Manager
-
10F, No. 951
Chung Cheng Rd.
Chung Ho City, Taipei Hsien 235
Taiwan, R.O.C.

Date : 05.09.2005
Our ref. : ALI ZTW2
Your ref.: 12030715/KH

SEP 06 2005

Ref : R TÜV-Mark Approval

Type of Equipment : (All-or-Nothing Electrical Relay)
Model Designation : See Certificate
Certificate No. : R 50048093 0003
Report No. : 11001469 003

Dear Mr. Kejaw Huang,

We filed the new address of your factory specified in the attached
license sheet.

Enclosed please find your additional sheet for your certificate.

We appreciate your kind support and would like to offer our
assistance and continuous services in the future. Please contact our
office for approval of your new products.

With kind regards,

Certification Body

A handwritten signature in black ink, appearing to read 'B. Scheirer'.

Dipl.-Ing. B. Scheirer

Enclosure

TÜV RHEINLAND TAIWAN LTD.

7F, No. 2, Min Chuan E. Rd., Sec.3,
Taipei 104, Taiwan, R.O.C.
Tel. (02) 2516-6040
Fax (02) 2504-5040
<http://www.twn.tuv.com>

TAICHUNG BRANCH:
10F, No. 219, Min Chuan Rd.,
Taichung 403, Taiwan, R.O.C.
Tel. (04) 2301-9898
Fax (04) 2301-9696

KAOHSIUNG BRANCH:
33F-3, No. 80, Min Tzu 1st Rd.,
Kaohsiung 807, Taiwan, R.O.C.
Tel. (07) 380-1722
Fax (07) 380-1728

NANKANG BRANCH:
No. 99-23, Nan Kang Rd., Sec. 2,
Taipei 115, Taiwan, R.O.C.
Tel. (02) 2783-6650
Fax (02) 2783-7117

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50048093

Blatt *Page*
0003

Ihr Zeichen *Client Reference*
12030715/KH

Unser Zeichen *Our Reference*
ZTW2-ALI- 11001469 003

Ausstellungsdatum
05.09.2005

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Hsin Da Precision Co., Ltd.
10F, No. 951
Chung Cheng Rd.
Chung Ho City, Taipei Hsien 235
Taiwan, R.O.C.

Fertigungsstätte *Manufacturing Plant*

Liyan Xinda Precision Electronics
Co., Ltd.
No. 8, Tengfei Rd.
Kunlun Economic Development
Zone of Liyang, Jiangsu
P.R. China

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*



EN 61810-1:1998
EN 61810-5:1998
EN 60255-23:1996

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (All-or-Nothing Electrical Relay)

Wie Blatt (As Page) 01

Änderung (Change)

Fertigungsstätte: siehe oben
(Factory) (see above)



Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althoff@de.tuv.com

Dipl.-Ing. B. Scheirer

Hsin Da Precision Co., Ltd.
Ms. Kelly Wu, Sales Representative
Sales Department
10F., No. 951, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City 235
Taiwan, R.O.C.

Date : 25.08.2011
Our ref. : VWV ZTW2
Your ref.: 12054484

AUG 25 2011

Ref : R TÜV-Mark Approval

Type of Equipment : Electromechanical Elementary Relays
Model Designation : See Certificate
Certificate No. : R 50048093 0004
Report No. : 11001469 005

Dear Ms. Kelly Wu,

The above specified technical equipment has been tested and found to be in accordance with the relevant requirements.

Enclosed you will find the certificate of approval.

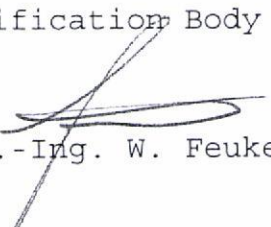
If cancellation of the certificate is submitted by November 15 in a given year, no fee will be charged for the following year.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

Please contact our office for approval of your new products.

With kind regards,

Certification Body


Dipl.-Ing. W. Feucker

Enclosure

TÜV RHEINLAND TAIWAN LTD.

11F., No. 758, Sec. 4, Bade Rd.,
Songshan Dist., Taipei City 105,
Taiwan (R. O. C.)
Tel. (02) 2172-7000
Fax (02) 2528-0018
<http://www.twn.tuv.com>

TAICHUNG BRANCH:
No. 9, Lane 36, Sec. 3, Minsheng Rd.,
Daya Township, Taichung County 428,
Taiwan R.O.C.
Tel. (04) 2560-2998
Fax (04) 2566-3598

KAOHSIUNG BRANCH:
33F-3, No. 80, Min Tzu 1st Rd.,
Kaohsiung 807, Taiwan, R.O.C.
Tel. (07) 380-1722
Fax (07) 380-1728

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50048093

Blatt *Page*
0004

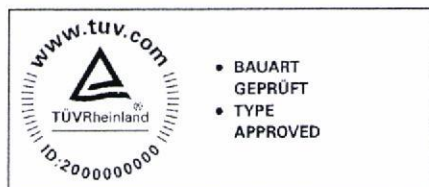
Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i> (day/mo/yr)
12054484	ZTW2-VWV- 11001469 005	25.08.2011	

Genehmigungsinhaber *License Holder*
Hsin Da Precision Co., Ltd.
10F., No. 951, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City 235
Taiwan, R.O.C.

Fertigungsstätte *Manufacturing Plant*
Liyang Xinda Precision Electronics
Co., Ltd.
No. 8, Tengfei Rd.
Kunlun Economic Development
Zone of Liyang, Jiangsu
P.R. China

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
EN 61810-1:2008
IEC 61810-1:2008



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (Electromechanical Elementary Relays)

Wie Blatt (As Page) 01

Änderung (Change)

Prüfgrundlage : siehe oben
(Test Requirement) (see above)

Zertifiziertes Produkt : siehe oben
(Certified Product) (see above)

Genehmigungsinhaber : siehe oben
(License Holder) (see above)

Fertigungsstätte : siehe oben
(Factory) (see above)



ANLAGE (Appendix): 1.1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Zertifizierungsstelle

Dipl.-Ing. W. Feuker

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50048093

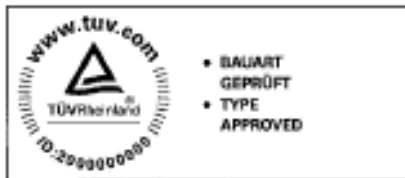
Blatt *Page*
0005

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i> (day/month/year)
12054484	ZTW2-VWW- 11001469 005	25.08.2011	

Genehmigungsinhaber *License Holder*
Hsin Da Precision Co., Ltd.
10F., No. 951, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City 235
Taiwan, R.O.C.

Fertigungsstätte *Manufacturing Plant*
Liyang Xinda Precision Electronics
Co., Ltd.
No. 8, Tengfei Rd.
Kunlun Economic Development
Zone of Liyang, Jiangsu
P.R. China

Prüfzeichen *Test Mark*



- BALIART
GEPRÜFT
- TYPE
APPROVED

Geprüft nach *Tested acc. to*

EN 61810-1:2008
IEC 61810-1:2008

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (Electromechanical Elementary Relays)

Wie Blatt (As Page) 01

Änderung für Bezeichnung : 943-1X1-X2DX3-X4 series
(Change for Type Designation)

Bezeichnung : 943-X1-X2-X3 series
(Type Designation)

X1 steht für (stands for) : 1A, 1B oder (or) 1C

X2 steht für (stands for) : 3DS, 5DS, 6DS, 9DS, 12DS,
18DS, 24DS oder (or) 48DS

X3 steht für (stands for) : Nil oder (or) F

Bemessungsspannung der Spule: DC, 3, 5, 6, 9, 12, 18, 24
(Rated Voltage of Coil) oder (or) 48V

Bemessungsdaten der Kontakte: a) AC 250V/5A, DC 30V/5A (für
(Rated Values of Contacts) N.O. Kontakt (for N.O.
contact))

Fortsetzung auf Blatt (Continued on Page) 06

ANLAGE (Appendix): 1.1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüferundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety



Zertifizierungsstelle

Dipl.-Ing. W. Feucker

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50048093

Blatt *Page*
0006

Ihr Zeichen *Client Reference*
12054484

Unser Zeichen *Our Reference*
ZTW2-VVW- 11001469 005

Ausstellungsdatum
25.08.2011

Date of Issue
(day/mo/yr)

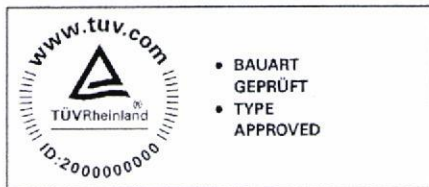
Genehmigungsinhaber *License Holder*

Hsin Da Precision Co., Ltd.
10F., No. 951, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City 235
Taiwan, R.O.C.

Fertigungsstätte *Manufacturing Plant*

Liyang Xinda Precision Electronics
Co., Ltd.
No. 8, Tengfei Rd.
Kunlun Economic Development
Zone of Liyang, Jiangsu
P.R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 61810-1:2008
IEC 61810-1:2008

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (Electromechanical Elementary Relays)

Wie Blatt (As Page) 01

Fortsetzung (Continuation)

Bemessungsdaten der Kontakte: b) AC 250V/7A, DC 30V/7A (für
(Rated Values of Contacts) N.O. Kontakt (for N.O.
contact))

c) AC 250V/7A (X1= 1C)

Elektrische Lebensdauer : a) 100,000 (1,200/h)
(Electrical Lifetime) b) 50,000 (1,200/h)
c) 20,000 (900/h)

Mechanische Lebensdauer : 5,000,000 (18,000/h)
(Mechanical Lifetime)

Umgebungstemperatur : -40 bis (up to) +85°C
(Ambient Temperature)

Schutzart : IP00
(Protection Degree)

Anbringungsart : Leiterplattenmontage
(Kind of Installation) (PCB mounting)



ANLAGE (Appendix): 1.1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Zertifizierungsstelle

Dipl.-Ing. W. Feuker

Hsin Da Precision Co., Ltd.
Ms. Kelly Wu, Sales Representative
Sales Department
10F., No. 951, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City 235
Taiwan, R.O.C.

Date : 06.11.2017
Our ref. : VWW ZTW2
Your ref.: 12097757

Ref : R TÜV-Mark Approval

Type of Equipment : Electromechanical Elementary Relays
Model Designation : See Certificate
Certificate No. : R 50048093 0007
Report No. : 11001469 006

Dear Ms. Kelly Wu,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area.

With kind regards,

Certification Body


Dipl.-Ing. W. Feucker

Enclosure

TÜV RHEINLAND TAIWAN LTD.

11F., No. 758, Sec. 4, Bade Rd.,
Songshan Dist., Taipei City 105,
Taiwan R. O. C.
Tel. (02) 2172-7000
Fax (02) 2528-0018
<http://www.tuv.com>

TAICHUNG BRANCH:
No. 9, Lane 36, Sec. 3, Minsheng Rd.,
Daya Dist., Taichung City 428
Taiwan, R. O. C.
Tel. (04) 2560-2998
Fax (04) 2566-3598

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50048093

Blatt *Page*
0007

Ihr Zeichen *Client Reference*
12097757

Unser Zeichen *Our Reference*
ZTW2-VWW- 11001469 006

Ausstellungsdatum
06.11.2017

Date of Issue
(day/month/year)

Genehmigungsinhaber *License Holder*

Hsin Da Precision Co., Ltd.
10F., No. 951, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City 235
Taiwan, R.O.C.

Fertigungsstätte *Manufacturing Plant*

Liyang Xinda Precision Electronics
Co., Ltd.
No. 8, Tengfei Rd.
Kunlun Economic Development
Zone of Liyang, Jiangsu
P. R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 61810-1:2015
IEC 61810-1:2015

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (Electromechanical Elementary Relays)

Wie Blatt (As Page) 01

Änderung (Change)

Prüfgrundlage : siehe oben
(Test Requirement) (see above)



ANLAGE (Appendix): 1.2

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

Zertifizierungsstelle

Dipl.-Ing. W. Feuker

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Hsin Da Precision Co., Ltd.
Ms. Daphne Lee

Date : 22.06.2021
Our ref. : ZTW1
Your ref.: 238045173

10F., No. 951, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City 235
Taiwan, R.O.C.

Ref : R TÜV-Mark Approval

Type of Equipment : Electromechanical Elementary Relays
Model Designation : See Certificate
Certificate No. : R 50048093 0008
Report No. : 11001469 008

Dear Ms. Daphne Lee,


We filed the new address of your factory specified in the attached
license sheet.

Enclosed please find your additional sheet for your certificate.

We appreciate your kind support and would like to offer our
assistance and continuous services in the future. Please contact our
office for approval of your new products.

With kind regards,

Certification Body



Dipl.-Ing. Th. Illing

Enclosure

TÜV RHEINLAND TAIWAN LTD.

11F., No. 758, Sec. 4, Bade Rd.,
Songshan Dist., Taipei City 105,
Taiwan, R. O. C.
Tel. (02) 2172-7000
Fax (02) 2172-1322
<http://www.tuv.com>

NEW TAIPEI BRANCH:
No. 458-18 & 458-19,
Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244,
Taiwan, R. O. C.
Tel. (02) 2172-1000
Fax (02) 2172-1322

TAICHUNG BRANCH:
3F., No. 497, Zhongming South Rd.,
West Dist., Taichung City 403,
Taiwan, R. O. C.
Tel. (02) 2172-7000
Fax (02) 2172-1322

KAOHSIUNG BRANCH:
27F.-3, No.80, Minzu 1st Rd.,
Sanmin Dist., Kaohsiung City 807,
Taiwan, R. O. C.
Tel. (07) 262-6000
Fax (07) 380-0577

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50048093

Blatt *Page*
0008

Ihr Zeichen *Client Reference*
238045173

Unser Zeichen *Our Reference*
ZTW1-- 11001469 008

Ausstellungsdatum
22.06.2021

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Hsin Da Precision Co., Ltd.
10F., No. 951, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City 235
Taiwan, R.O.C.

Fertigungsstätte *Manufacturing Plant*

Mingguang Xinda Electronics Co., Ltd
20 Zhongning Road, Mingguang,
Chuzhou,
239400 Anhui
P.R. China

Prüfzeichen *Test Mark*



Bauart geprüft
Sicherheit
Regelmäßige
Produktions-
überwachung

www.tuv.com
ID 2000000000

Geprüft nach *Tested acc. to*

EN 61810-1:2015
IEC 61810-1:2015

Zertifiziertes Produkt (*Geräteidentifikation*)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (Electromechanical Elementary Relays)

wie Blatt (as page) 01

Änderung
(Change)

Fertigungsstätte: siehe oben
(Factory) (see above)

ANLAGE (Appendix): 1.2

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety



Zertifizierungsstelle

Dipl.-Ing. Th. Illing

Hsin Da Precision Co., Ltd.
Frau Daphne Lee

10F., No. 951, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City 235
Taiwan, R.O.C.

Date : 08.09.2021
Our ref. : ZTW1
Your ref.: 238047472

Ref : R TÜV-Mark Approval

Type of Equipment : Electromechanical Elementary Relays
Model Designation : See Certificate
Certificate No. : R 50048093 0009
Report No. : 11001469 009

Dear Frau Daphne Lee,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

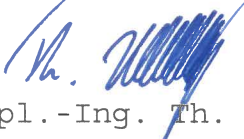
Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area.

With kind regards,

Certification Body



Dipl.-Ing. Th. Illing

Enclosure

TÜV RHEINLAND TAIWAN LTD.

11F., No. 758, Sec. 4, Bade Rd.,
Songshan Dist., Taipei City 105,
Taiwan, R. O. C.
Tel. (02) 2172-7000
Fax (02) 2172-1322
<http://www.tuv.com>

NEW TAIPEI BRANCH:
No. 458-18 & 458-19,
Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244,
Taiwan, R. O. C.
Tel. (02) 2172-1000
Fax (02) 2172-1322

TAICHUNG BRANCH:
3F., No. 497, Zhongming South Rd.,
West Dist., Taichung City 403,
Taiwan, R. O. C.
Tel. (02) 2172-7000
Fax (02) 2172-1322

KAOHSIUNG BRANCH:
27F.-3, No.80, Minzu 1st Rd.,
Sanmin Dist., Kaohsiung City 807,
Taiwan, R. O. C.
Tel. (07) 262-6000
Fax (07) 380-0577

Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 50048093

Blatt Page
0009

Ihr Zeichen Client Reference
238047472

Unser Zeichen Our Reference
ZTW1-- 11001469 009

Ausstellungsdatum
08.09.2021

Date of Issue
(day/mo/yr)

Genehmigungsinhaber License Holder

Hsin Da Precision Co., Ltd.
10F., No. 951, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City 235
Taiwan, R.O.C.

Fertigungsstätte Manufacturing Plant

Mingguang Xinda Electronics Co., Ltd
20 Zhongning Road, Mingguang,
Chuzhou,
239400 Anhui
P.R. China

Prüfzeichen Test Mark



Geprüft nach Tested acc. to

EN 61810-1:2015
IEC 61810-1:2015

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (Electromechanical Elementary Relays)

wie Blatt (as page) 01

Ergänzung für Bezeichnung : 943-X1-X2-X3 Series
(Addition for Type Designation)

Hinweis: Zusätzliche Zulassung der Kontaktbelas basierend
auf der Norm IEC 60730-1: 2013+A1:2015; EN 60730-1: 2016,
Abschnitt 17.5, 17.7, 17.8, 17.14* and EN 60335-1: 2012/A2
:2019; IEC 60335-1: 2010/A2: 2016, Abschnitt 24.1.4, 24.1.9.

(*Beinhaltet nicht die Erwärmungsprüfung nach der Prüfung
der elektrischen Lebensdauer.) unter den Bemessungswerten:

- a) AC 220V, 5A, N.O. Kontakt / Umschaltung Kontakt, 10k
Zyklen bei 85 °C
 - b) DC 26V, 5A, N.O. Kontakt / Umschaltung Kontakt, 10k
Zyklen bei 85 °C
 - c) AC 220V, 7A, N.O. Kontakt / Umschaltung Kontakt, 50k
Zyklen bei 85 °C
 - d) DC 26V, 7A, N.O. Kontakt / Umschaltung Kontakt, 50k
Zyklen bei 85 °C
 - e) AC 220V, 7A, Umschaltung Kontakt, 20k Zyklen bei 85 °C
- Fortsetzung auf Blatt (Continued on Page) 10

ANLAGE (Appendix): 1.3

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität
des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen
in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich
beachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

This certificate is based on our Testing and Certification Regulation and states the conformity
of the product with the standards and testing requirements as indicated above. Any additional
requirements in countries where the product is going to be marketed have to be considered
additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety



Zertifizierungsstelle

Dipl.-Ing. Th. Illing

Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 50048093

Blatt Page
0010

Ihr Zeichen Client Reference
238047472

Unser Zeichen Our Reference
ZTW1-- 11001469 009

Ausstellungsdatum
08.09.2021

Date of Issue
(day/mo/yr)

Genehmigungsinhaber License Holder

Hsin Da Precision Co., Ltd.
10F., No. 951, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City 235
Taiwan, R.O.C.

Fertigungsstätte Manufacturing Plant

Mingguang Xinda Electronics Co., Ltd
20 Zhongning Road, Mingguang,
Chuzhou,
239400 Anhui
P.R. China

Prüfzeichen Test Mark



Bauart geprüft
Sicherheit
Regelmäßige
Produktions-
überwachung
www.tuv.com
ID 2000000000

Geprüft nach Tested acc. to

EN 61810-1:2015
IEC 61810-1:2015

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (Electromechanical Elementary Relays)

wie Blatt (as page) 01

Fortsetzung (Continuation)

(Remark: Additional contact rating approval based on standard IEC 60730-1: 2013+A1:2015; EN 60730-1: 2016, Clause 17.5, 17.7, 17.8, 17.14* and EN 60335-1: 2012/A2:2019; IEC 60335-1: 2010/A2:2016, Clause 24.1.4, 24.1.9. (*Does not include the heating test after the electrical endurance life test.) under rating:

- a) AC 220V, 5A, N.O. contact / change-over contact, 10k cycles at 85 °C
- b) DC 26V, 5A, N.O. contact / change-over contact, 10k cycles at 85 °C
- c) AC 220V, 7A, N.O. contact / change-over contact, 50k cycles at 85 °C
- d) DC 26V, 7A, N.O. contact / change-over contact, 50k cycles at 85 °C
- e) AC 220V, 7A, change-over contact, 20k cycles at 85 °C)

ANLAGE (Appendix): 1.3

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

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Fax: (+49/221)8 06 - 39 35 <http://www.tuv.com/safety>



Zertifizierungsstelle

Dipl.-Ing. Th. Illing



产品认证证书

证书编号: CQC02001001785

申请人名称及地址

溧阳欣大精密电子有限公司
江苏省溧阳市昆仑经济开发区腾飞路8号

制造商名称及地址

溧阳欣大精密电子有限公司
江苏省溧阳市昆仑经济开发区腾飞路8号

生产企业名称及地址

溧阳欣大精密电子有限公司 (V000865)
江苏省溧阳市昆仑经济开发区腾飞路8号

产品名称和系列、规格、型号

继电器

943/943A系列 (单元及规格详见附页) 触点负载: 15A 277VAC; 10A 277VAC; 12A 125VAC; 12A 30VDC; 线圈: 5VDC, 6VDC, 9VDC, 12VDC, 24VDC, 48VDC 0.36W 电气寿命: 1E4周期; 机械寿命: 5E4周期; 环境温度: -30°C-85°CRT II

产品标准和技术要求

GB 21711.1-2008

认证模式

产品型式试验+初次工厂检查+获证后监督

上述产品符合CNCA-V01-018: 2003认证规则的要求, 特发此证。

发证日期: 2016年01月06日

证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

本证书为变更证书, 证书首次颁发日期: 2002年11月08日

主任: _____



中国质量认证中心

中国·北京·南四环西路188号9区100070

<http://www.cqc.com.cn>

C 0079555



PRODUCT CERTIFICATE

No.: CQC02001001785

NAME AND ADDRESS OF THE APPLICANT

LIYANG XIN DA PRECISION ELECTRONICS CO., LTD.
No.8 tengfei Rd. Kunlun Economic Development Zone of Liyang City,jiangsu China

NAME AND ADDRESS OF THE MANUFACTURER

LIYANG XIN DA PRECISION ELECTRONICS CO., LTD.
No.8 tengfei Rd. Kunlun Economic Development Zone of Liyang City,jiangsu China

NAME AND ADDRESS OF THE FACTORY

LIYANG XIN DA PRECISION ELECTRONICS CO., LTD. (V000865)
No.8 tengfei Rd. Kunlun Economic Development Zone of Liyang City,jiangsu China

NAME, MODEL AND SPECIFICATION

relay

943/943A系列（单元及规格详见附页）触点负载：15A 277VAC;10A 277VAC;12A 125VAC;12A 30VDC;线圈：
5VDC,6VDC,9VDC,12VDC,24VDC,48VDC 0.36W 电气寿命：1E4周期；机械寿命：5E4周期；环境温度：-30℃-85℃CRT
II

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB 21711.1-2008

CERTIFICATION MODEL

Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned products have met the requirements of certification rules
CNCA-V01-018:2003.

Date of issue: Jan.06,2016

Validity of this certificate is subject to positive result of the regular follow up inspection by issuing
certification body until the expiry date.

Date of original certification: Nov.08,2002

President: _____

Wang Kejiao



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan Xilu, Beijing 100070 P.R.China
<http://www.cqc.com.cn>

C 0079555



产品认证证书

附录:

第 1 页 共 1 页

证书编号: CQC02001001785

纸号: 79555

943/943A	-	1X	-	XX	X	X	-	X
1		2		3	4	5		6

1. 产品主型号: 943/943A
2. 触点形式: 1A=1 组常开 (SPST-NO) ; 1C=1 组转换 (STDT)
3. 线圈电压: 5V、6V、9V、12V、24V、48V
4. 线圈类型: D:DC
5. 密封形式: 无=普通型; S=密封型
6. 绝缘等级: 无=B 级; F=F 级

注: 此附录与证书同时使用时有效。

主任: _____



中国质量认证中心

中国·北京·南四环西路 188 号 9 区 100070

<http://www.cqc.com.cn>

