

SPECIFICATION

Type: HRM1H-S-DC24V Relay (C Type)

1. COIL DATA

1.1	Nominal Voltage	24VDC.
1.2	Coil Resistance	1067 Ω \pm 10% at 23°C.
1.3	Nominal Current	22.5mA \pm 10% at 23°C.
1.4	Operating Voltage	18.0VDC Max.
1.5	Release Voltage	2.4VDC Min.
1.6	Maximum Coil Voltage	31.2VDC(130% of Nominal Voltage)
1.7	Nominal Operating Power	540mW

2. CONTACT DATA

2.1	Contact form	2 Form C-DPDT
2.2	Contact material	Ag Alloy
2.3	Contact rating	Resistive: 5A 250VAC/30VDC
2.4	Max. switching voltage	30VDC / 250VAC
2.5	Max. switching current	5A
2.6	Max. switching power	1250VA, 150W
2.7	Min. switching current	100mA 5VDC
2.8	Contact resistance (Initial)	Max.100m Ω at 6VDC 1A
2.9	Electrical Durability	100,000 operations at rate load (1800 ops/hour) After test, the dielectric strength shall be not less than 75% of initial value
2.10	Mechanical Durability	10,000,000 operations at no load (18,000 ops/hour)

3. GENERAL DATA

3.1	Insulation Resistance	Min.1000M Ω at 500VDC
3.2	Dielectric Strength(Leakage current: 1mA)	
	(1) Between contacts	1,000VAC, 1 min , 50/60Hz
	(2) Between Coil and Contact	4,000VAC, 1 min , 50/60Hz
3.3	Operate Time	Max. 15 ms.
3.4	Release Time	Max. 8 ms.
3.5	Operating temperature	-40 to +85°C
3.6	Storage conditions	
	(1) Storage Temperature	-40 to +85°C
	(2) Environments	Store in locations where the product is not exposed to corrosive gas such as hydrogen sulfide gas or salty air. Store in locations where the product is not exposed to the direct ray of the sun and rain, snow.

- 3.7 Temperature Rise
Coil 60k max. by resistance method when 5A current is applied to contact and 110% of rated voltage to relay coil at 85°C
- 3.8 Terminal Strength
Tensile and pushing To be free from any abnormality in both the construction and characteristics after pushing and pulling the relay terminal 2mm from the body with 1kg for 10sec.
- 3.9 Solderability Solder should be finished 95% on dipped surface. Soldering bath of melted solder at $260 \pm 5^\circ\text{C}$ for 5 ± 1 sec.
- 3.10 Resistance to soldering Heat To be free from any abnormality in both the construction and characteristics after the terminals are dipped into the soldering bath $260 \pm 5^\circ\text{C}$ for 10 ± 1 seconds and then recover the relay in a room temperature and humidity for 2 hours.
However, in the case of hand solder, it must be soldered within 3.5 ± 0.5 seconds at $350 \pm 10^\circ\text{C}$
Contact resistance shall be less than 100m Ω
- 3.11 Cold To be free from any abnormality in both the construction and characteristics after the relay is left in a temperature of $-40 \pm 3^\circ\text{C}$ for 2 hours and then recover it in room temperature and humidity for 1~2h.
However, contact resistance shall be less than 100m Ω
- 3.12 Dry Heat To be free from any abnormality in both the construction and characteristics after the relay is left in a temperature of $85 \pm 2^\circ\text{C}$ for 16 hours and then recover it in room temperature and humidity for 1~2h.
However, contact resistance shall be less than 100m Ω
- 3.13 Moisture Resistance To be free from any abnormality in both the construction and characteristics after the relay is left in a humidity of 90-95% RH , a temperature of $40 \pm 2^\circ\text{C}$ for 48 hours and then recover it in room temperature and humidity for 1~2h.
However, the insulation resistance must be 100M ohms Min and contact resistance shall be less than 100m Ω
- 3.14 Vibration
(1) Mechanical durability To be free from any abnormality in both the construction and characteristics after the relay is subjected to double amplitude 1.5mm, frequency of 10~55~10Hz in each direction for 2hs, total 6 hours.

(2) Malfunction durability (energized)	Contact must not open for 1ms or longer after the relay is subjected to a double amplitude 1.5mm, frequency of 10~55~10Hz in each direction for 5 min, total 30 min.
3.15 Shock (1) Mechanical durability	To be free from any abnormality in both the construction and characteristics after the relay is subjected to a shock of 1,000m/s ² , 6ms in each direction for 3 times, total 18 shocks.
(2) Malfunction durability (energized)	Contact must not open for 1ms or longer after the relay is subjected to a shock of 100m/s ² , 11ms in each direction for 3 times, total 18 shocks.
4	Nomenclature: $\frac{\text{HRM1}}{\text{a}} \quad \frac{\text{H}}{\text{b}} - \frac{\text{S}}{\text{c}} - \frac{\text{DC24V}}{\text{d}} \quad \text{Ⓢ}$ <ul style="list-style-type: none"> a: Relay Series. b: Coil Consumption H stands for 540mW of coil consumption c: Enclosure S: Plastic Sealed Type d: Coil Voltage DC24V e: Contact Configuration <p>Ⓢ stands for Change-over contact form</p>
5	Marking Marking Drawing No. Y-HRM1-N6-03 Case Color Black Marking Type Laser marking
6	Dimensions, circuits Outline Refer to drawing No. HKE4.520.083
7	Safety Standard Approval UL NO.E164730 CSA NO.1063015 TUV NO. 50134947 CQC 09002035018

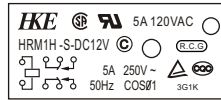


图1 1:1

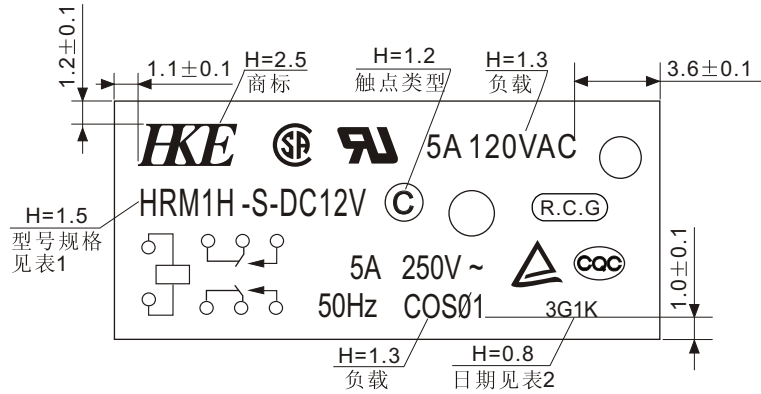


图2 2.5:1

表 1

HRM1	H	S	DC12V
型号	线圈灵敏度: NIL: 0.72W H: 0.54W	塑封型	线圈电压: DC3V、DC5V、DC6V、 DC9V、DC12V、DC24V DC48V

表 2

3	G	1	K
年份	月份: A:1月 E:5月 I:9月 B:2月 F:6月 J:10月 C:3月 G:7月 K:11月 D:4月 H:8月 L:12月	星期: 1:第1星期 2:第2星期 3:第3星期 4:第4星期	MAKER

技术要求:
1.未注公差按±0.2, 以上单位:mm;
2.线条、字迹应清晰、美观;

产品编号

HRM1

旧底图总号

标记 数量 更改单号 签名 日期

底图总号

设计
审核
工艺

日期

签名

标准化
批准

HRM1外壳(环保)
标志图
HRM1 Marking

EKE

浙江汇港电器有限公司

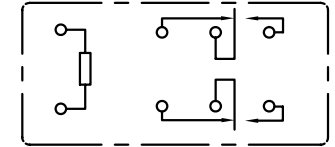
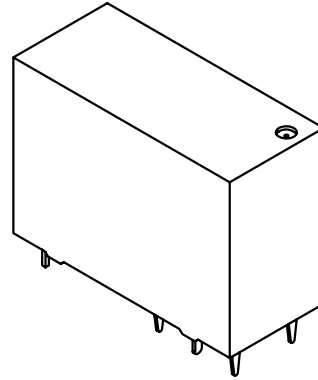
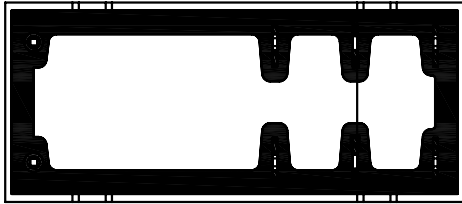
阶段 标记 质量 比例

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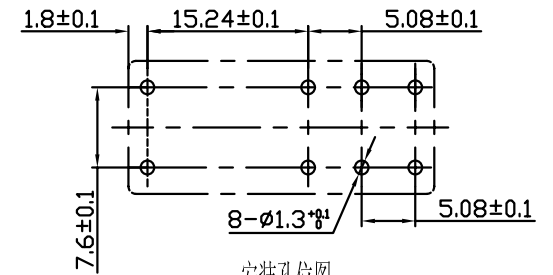
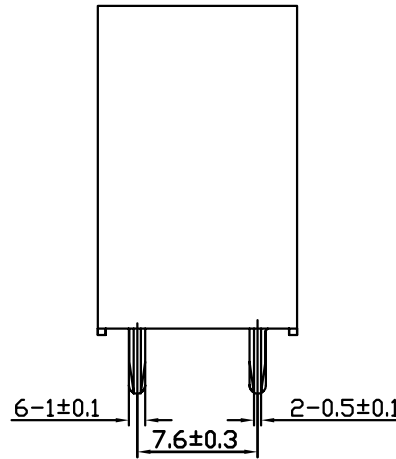
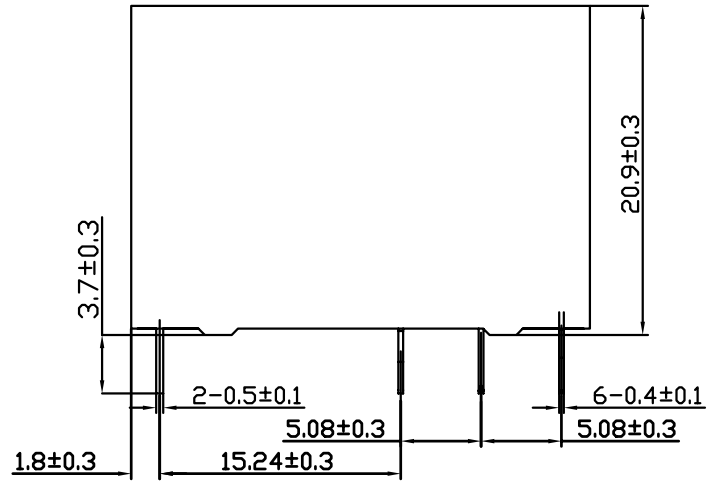
第 页

Y-HRM1-N6-03

HKE4.520.083



接线图



安装孔位图



产品编号

HRM1

旧底图总号

底图总号

日期 签名

镀涂

标记	数量	更改单号	签名	日期
设计				
审核				
工艺				
标准化				
批准				

HRM1-C型外形图
HRM1-C OUTLINE

HKE.
浙江汇港电器有限公司

阶段 标记 质量 比例

4/1

共 1 页 第 1 页

HKE4.520.083

版本号: 00



QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 00117Q34885R6M/3302

We hereby certify that

Zhejiang HKE Relay Co., Ltd.

Unified Social Credit Code/ Organization Code certificate: 913302127369759197

No.162 of Jiashan Road, Jiacun, Yunlong Town, Yinzhou District, Ningbo City,
Zhejiang Province, China

by reason of its
Quality Management System
has been awarded this certificate for compliance with the standard
ISO9001:2015

The Quality Management System Applies in the following area:

The Design, Assembly, Production of Electromagnetic Relay

Certified since: August 15, 2008 Valid from: June 22, 2017 Valid until: July 2, 2020

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.
Please access www.cqc.com.cn for checking validity of the certificate.

This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's
Republic of China (www.cnca.gov.cn).



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C001-M


Signed by: Wang Kejiao



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070,China

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



ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 00118E32037R5M/3302

We hereby certify that
Zhejiang HKE Relay Co., Ltd.

No.162 Jiacun(Jiashan), Yunlong Town, Yinzhou District, Ningbo City, Zhejiang Province, China

by reason of its
Environmental Management System

has been awarded this certificate for compliance with the standard

GB/T 24001-2016 / ISO 14001:2015

The Environmental Management System Applies in the following area:

The Design, Assembly, Production of Electromagnetic Relay and Related Management Activities

Certified since: December 3, 2003 Valid from: June 15, 2018 Valid until: June 22, 2021

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.
Please access www.cqc.com.cn for checking validity of the certificate.



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C001-M


Signed by: Wang Kejiao



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070,China

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2015年版



NRNT2.E164730 Switches, Industrial Control - Component

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Switches, Industrial Control - Component

[See General Information for Switches, Industrial Control - Component](#)

ZHEJIANG HKE RELAY CO LTD

E164730

28 JIA CUN INDUSTRY AREA

NINGBO, ZHEJIANG 315135 CHINA

Relays, Model(s) AC, followed by 3, followed by S, followed by DC, followed by 5V, 6V, 9V, 12V, 18V or 24V, followed by A

Relays, Model(s) CMP6-S or F6-S, followed by DC5V, 6V, 9V, 12V, or 24V, may be followed by P

Relays, Model(s) CMP7 or CMP8, followed by Nil or S, followed by DC5V, DC6V, DC24V, DC9V, DC12V, DC24V, DC48V, followed by A or C

Relays, Model(s) CMP8(AT)-S followed by DC5V, DC6V, DC9V, DC12V, DC24V or DC48V, followed by A

Relays, Model(s) HCP, followed by 1, 2 or 3, followed by blank or S, followed by DC, followed by 5V, 6V, 9V, 12V, 18V, 24V, 36V, 48V, followed by A or C, HRA, may be followed by H, may be followed by S, HRB1-S, followed by DC3V, DC5V, DC6V, DC9V, DC12V or DC24V, HRM, may be followed by 1 or 2, may be followed by H, may be followed by S

Relays, Model(s) HRM, may be followed by 3, may be followed by H or L, may be followed by S, may be followed by DC3-DC48, may be followed by T.

Relays, Model(s) HRM4, may be followed by H, may be followed by S, followed by DC3-DC24 incl

Relays, Model(s) HRM4, may be followed by H, may be followed by S, may be followed by DC3 - DC48, followed by SP, HRMF, followed by DC3V, DC5V, DC6V, DC9V, DC12V, DC18V, DC24V or DC48V

Relays, Model(s) HRS, may be followed by 3 or 4, may be followed by H, may be followed by A, may be followed by S, followed by DC3-D48 incl

Relays, Model(s) HRS1, may be followed by K, may be followed by B or H, may be followed by 3, may be followed by S, followed by DC, followed by XX, where XX is coil voltage, HRS2, may be followed by B or H, may be followed by S

Relays, Model(s) HRS2H, followed by S, followed by 3 VDC through 48 VDC, may be followed B, N or T

Relays, Model(s) HRS3, may be followed by N, may be followed by H, followed by S, followed by DC3V, DC5V, DC6V, DC9V, DC12V, or DC24V, may be followed by A or C

Relays, Model(s) HRS3-S, followed by DC3V, DC5V, DC6V, DC9V, DC12V or DC24V, followed by A or C

Relays, Model(s) HRS3T, may be followed by N, may be followed by H, followed by S, followed by DC, followed by 3V, 5V, 6V, 9V, 12V or 24V, followed by A or C

Relays, Model(s) HRS4, may be followed by T, may be followed by F, may be followed by H, followed by S, followed by DC, followed by 3V, through 60V may be followed by A

Relays, Model(s) HRS4E, followed by by Blank or H; followed by Blank or S; followed by DC3V, DC5V, DC6V, DC9V, DC12V, DC18V, DC24V or DC48V; followed by X or G

Relays, Model(s) L7, may be followed by S, followed by DC6V, DC12V, DC24V, DC48V, DC100V, DC110V, AC6V, AC12V, AC24V, AC48V, AC100V, AC120V, AC220V, AC240V, followed by 1A or 2A, followed by 2P or 2Q


Relays, Model(s) V6, may be followed by S, followed by DC3V, DC5V, DC6V, DC9V, DC12V, DC18V, DC24V or DC48V

Relays, open type, Model(s) AC5, may be followed by N, may be followed by S, followed by DC, followed by 5V, 6V, 9V, 12V, 18V or 24V

Relays, open type, Model(s) F5, may be followed by H, followed by DC, followed by 3V, 5V, 6V, 9V, 12V, 18V, 24V or 48V, followed by P1,P2 or P3

Relays, open type, Model(s) HCP4, may be followed by S, followed by DC, followed by 5V, 6V, 9V, 12V, 18V, 24V, 36V, or 48V, followed by A or C.

Relays, open type, for use in industrial application, Model(s) LH-DC12V-Q-2C

Marking: Company name or tradename "E164730" or trademark  and model designation.
Last Updated on 2010-01-10

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Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50134947

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0001

Ihr Zeichen *Client Reference*
L.Y.H.

Unser Zeichen *Our Reference*
01-ZJ- 15024685 002

Ausstellungsdatum
01.08.2008

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*
Zhejiang HKE Relay Co., Ltd.
28 Jiacun Industry Area
Ningbo, Zhejiang 315135
P.R. China

Fertigungsstätte *Manufacturing Plant*
Zhejiang HKE Relay Co., Ltd.
28 Jiacun Industry Area
Ningbo, Zhejiang 315135
P.R. China

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
EN 61810-1:2004



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (Electromechanical Elementary Relays)

Type Designation	: HRM1x-S-y	5
	x = Blank or H	1
	y = DC3V; DC5V; DC6V; DC9V	1
	DC12V; DC24V or DC48V	
Rated Coil Voltage	: DC 3V;5V;6V;9V;12V;24V or 48V	
Rated Coil Power	: 0,72W or 0,54W	
Ambient Temperature	: -30°C to +85°C	
Contact Loads	: 5A 250VAC	
Electrical Endurance	: 100 000	
Mechanical Endurance	: 10 000 000	
Type of Interruption	: Micro-Disconnection	
Insulation System		
between Coil and Contact:	Reinforced Insulation	

Remark:

- 1) 850°C glow-wire passed without flame.
- 2) The labelling requirements acc. to EU Directive 2001/95 have to be observed for distribution within the EEA.



7

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 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Dipl.-Ing. M. Scholz

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50134947

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0002

Ihr Zeichen *Client Reference*
L.Y.H.

Unser Zeichen *Our Reference*
01-MN- 15024685 005

Ausstellungsdatum
25.08.2011

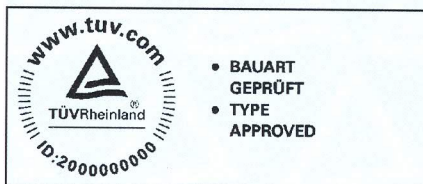
Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*
Zhejiang HKE Relay Co., Ltd.
28 Jiacun Industry Area
Ningbo, Zhejiang 315135
P.R. China

Fertigungsstätte *Manufacturing Plant*
Zhejiang HKE Relay Co., Ltd.
28 Jiacun Industry Area
Ningbo, Zhejiang 315135
P.R. China

Prüfzeichen *Test Mark*

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



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (Electromechanical Elementary Relays)

as page 0001

Change

Test Requirement: See above

Remark: Appendix 1 dated 29.04.2009 is replaced by
appendix 1 dated 05.08.2011.



Zertifizierungsstelle

Dipl.-Ing. F. He

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

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50134947

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0003

Ihr Zeichen *Client Reference*
L.Y.H.

Unser Zeichen *Our Reference*
01-SDW- 15024685 007

Ausstellungsdatum
15.08.2017

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*
Zhejiang HKE Relay Co., Ltd.
28 Jiacun Industry Area
Ningbo, Zhejiang 315135
P. R. China

Fertigungsstätte *Manufacturing Plant*
Zhejiang HKE Relay Co., Ltd.
28 Jiacun Industry Area
Ningbo, Zhejiang 315135
P. R. China

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
EN 61810-1:2015



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relay (Electromechanical Elementary Relay)

as page 0001

Change

Test Requirement: See above

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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



Certificate of Compliance

Certificate: 1063015 (LR 106040)

Master Contract: 187233

Project: 1446788

Date Issued: July 10, 2003

Issued to: Zhejiang HKE Relay Co., Ltd.
Jia Cun Industry Area 28
Ningbo, Zhejiang 315135
CHINA

*The products listed below are eligible to bear the CSA Mark shown
with adjacent indicators 'C' and 'US'*



Issued by: Sebastian George, P. Eng.

Authorized by: 

PRODUCTS

CLASS 3211 07 - INDUSTRIAL CONTROL EQUIPMENT - Miscellaneous Apparatus
CLASS 3211 87 - INDUSTRIAL CONTROL EQUIPMENT - Miscellaneous Apparatus
- Certified to U.S. Standards

1. Relays, Model HRM1, with suffixes, open-type with dust cover, 1-pole, single throw with N.O. contacts and 2-pole, double-throw with N.O. and N.C. contacts, rated 5A, 120V ac, Res; coils 3 - 48V dc.
2. Relays, Model HRM2, with suffixes, open-type with dust cover, 1-pole, single throw with N.O. contacts and 2-pole, double-throw with N.O. and N.C. contacts, rated 16A, 120V ac, Res; coils 3 - 48V dc.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 14-95 - Industrial Control Equipment
UL Std No. 508 - Industrial Control Panels

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.



PRODUCT CERTIFICATE

No.: CQC09002035018

NAME AND ADDRESS OF THE APPLICANT

ZHEJIANG HKE RELAY CO., LTD
JIACUN INDUSTRY AREA 28, NINGBO ZHEJIANG 315135

NAME AND ADDRESS OF THE MANUFACTURER

ZHEJIANG HKE RELAY CO., LTD
JIACUN INDUSTRY AREA 28, NINGBO ZHEJIANG 315135

NAME AND ADDRESS OF THE FACTORY

ZHEJIANG HKE RELAY CO., LTD(V002493)
JIACUN INDUSTRY AREA 28, NINGBO ZHEJIANG 315135

NAME, MODEL AND SPECIFICATION

RELAY

HRM系列 触点负载: 5A 250VAC, 10A 250VAC, NO/NC 16A/10A 250VAC; 线圈: DC3V, DC5V
DC6V, DC9V, DC12V, DC24V, DC48V 0.72W/0.54W; 电气寿命: 2E4周期; 机械寿命: 5E4周
期; 环境温度: -40℃~85℃ RT II 系列描述见附件

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB/T 21711.1-2008

CERTIFICATION MODEL

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

This is to certify that the above mentioned products have qualified for the requirements of
implementation rules for CQC mark certification.

The validity of the certificate depend on the follow up inspection by the certification body at
regular intervals.

President: _____

Wang Kejiao



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No. 188, Nansihuan Xilu, Beijing 100070 P.R. China

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

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