

说明书

型号: HRA-S-DC5V 继电器

1. 线圈参数

1.1 额定电压	5VDC
1.2 线圈电阻	55.6 Ω \pm 10% at 23 $^{\circ}$ C
1.3 额定电流	90mA \pm 10% at 23 $^{\circ}$ C
1.4 吸合电压	3.5VDC Max at 23 $^{\circ}$ C
1.5 释放电压	0.5VDC Min at 23 $^{\circ}$ C
1.6 最大线圈电压	6.5VDC(130%额定电压)
1.7 额定功率	450mW

2. 触点参数

2.1 触点形式	1 Form C
2.2 触点材料	Ag Alloy
2.3 触点负载	阻性: 1A 120VAC/24VDC
2.4 最大切换电压	30VDC/120VAC
2.5 最大切换电流	2A
2.6 最大切换功率	120VA , 30W
2.7 最小切换电流电压	10mA 5VDC
2.8 接触电阻 (首次)	Max.100m Ω at 6VDC 0.1A
2.9 寿命	
(1) 电气寿命	额定负载下 100,000 次 (1800 次/小时)
(2) 机械寿命	空载下 10,000,000 次 (18,000 次/小时)

3. 性能

3.1 绝缘电阻	Min.100M Ω at 500VDC
3.2 介质耐压(漏电流: 1mA)	
(1) 触点间	500VAC, 1 min , 50/60Hz
(2) 线圈与触点间	500VAC, 1 min , 50/60Hz
3.3 吸合时间	Max. 6ms.
3.4 释放时间	Max. 4ms.
3.5 环境温度	-40 to +70 $^{\circ}$ C
3.6 贮存温度	-40 to +85 $^{\circ}$ C

- 3.7 温升
线圈 电阻法，用1A额定电流激励触点，110%额定电压激励线圈，温升不超过40k。
- 3.8 冲击
- 3.8.1 强度 1,000m/s², 6ms, 3 shock (X, Y, Z 每个方向)
继电器结构无损坏。
- 3.8.2 稳定性 100m/s², 11ms, 3 shock (X, Y, Z 每个方向)
继电器外观、性能无异常。
- 3.9 振动
- 3.9.1 强度 双振幅 1.5mm, 频率 10~55Hz, 2hs。
继电器结构无损坏。
- 3.9.2 稳定性 双振幅 1.5mm, 频率 10~55Hz, 5min。
继电器外观、性能无异常
- 3.10 端子强度 1kg 力推拉继电器引出端 10 秒。
- 3.11 寒冷 -40±2℃, 2 小时
继电器结构及性能无异常。
- 3.12 干热 85±2℃, 16 小时
继电器结构及性能无异常。
- 3.13 湿热 40±2℃, 90-95%, 48 小时
继电器结构及性能无异常。
绝缘电阻最小 100MΩ
- 3.14 可焊性 焊锡应在浸渍表面完成。
焊锡温度 260℃, 时间 5 秒
- 3.15 耐焊性 当继电器引出端沉浸在 260℃ (时间 10 秒)
或 350℃ (时间 3 秒) 的锡温中继电器结构
及性能无异常。

4 命名

HRA- S - DC5V
a b

a: 继电器系列型号
b: 线圈电压 DC5V

5 印字

具体见附件 Y-HRA-N2-00

5.1 外壳颜色

黄色

5.2 印字位置

外壳正上方

5.3 印字类型

激光印字

6 外形尺寸

请见附件 HKE4.546.021

7 认证

UL NO.E164730
CSA NO.1063017

Y-HRA-N2-00



图1 1:1

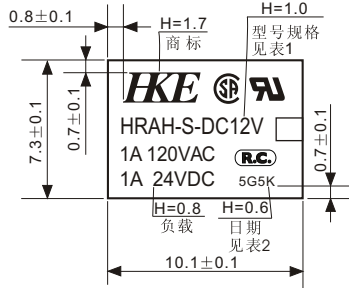


图2 2.5:1

表 1

HRA	H	S	DC12V
型号	线圈灵敏度 无:常规(0.45W) H:高灵敏度(0.33W)	塑封型	线圈电压: DC3V、DC5V、DC6V DC9V、DC12V、DC24V

表 2

5(年份)	G(月份)	5(星期)	K
YEAR	MONTH: A:JAN E:MAY I:SEP B:FEB F:JUN J:OCT C:MAR G:JUL K:NOV D:APR H:AUG L:DEC	WEEK: 1:FIRST WEEK 2:SECOND WEEK 3:THIRD WEEK 4:FOURTH WEEK 5:FIFTH WEEK	MAKER

技术要求:

- 1.此标志图为无铅产品的印字, R.C.代表无铅;
- 2.未注公差按±0.2,以上单位为mm;
- 3.线条、字迹应清晰、美观。

媒体编号

旧底图总号

底图总号

日期 签名

格式(1)

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

HRA外壳(无铅)
标志图
HRA Marking

Y-HRA-N2-00

阶段	标记	质量	比例

第 张 共 张

EKE

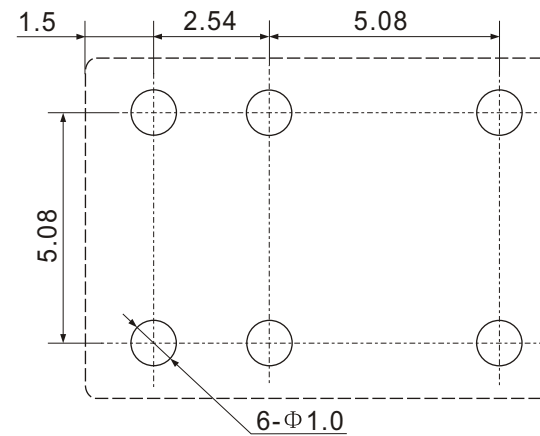
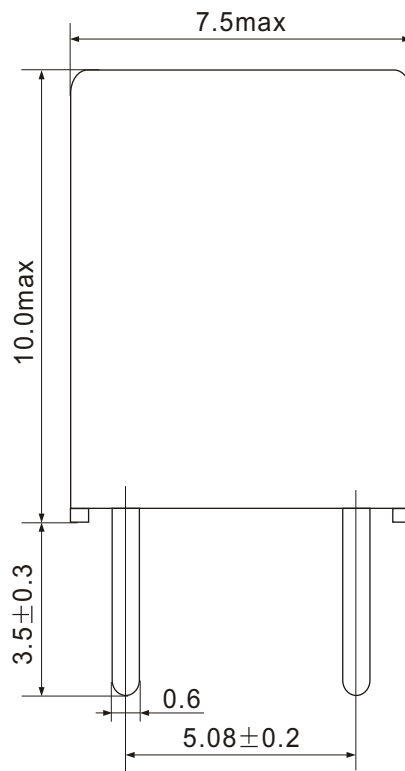
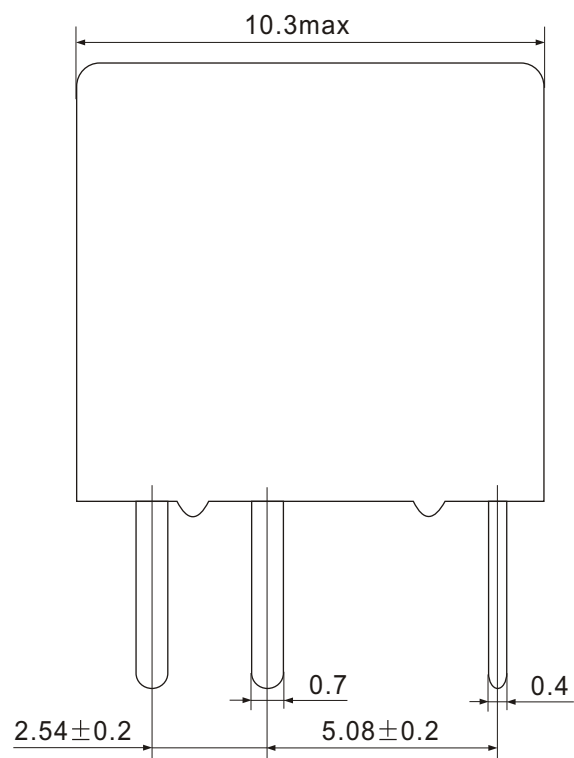
浙江汇港电器有限公司

制图:

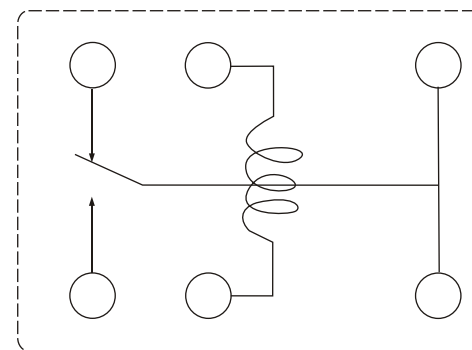
描图:

幅面: A4

HKE4.546.021



安装孔图



接线图

产品编号

HRA

旧底图总号

底图总号

日期

签名

格式 (1)

制图:

HRA继电器
HRA Relay

外形Outline

EKE

浙江汇港电器有限公司

阶段	标记	质量	比例

第 张	共 张
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HKE4.546.021

描图:

幅面: A4



质量管理体系认证证书

证书编号: 00111Q26542R4M/3302

兹证明
浙江汇港电器有限公司

中国浙江省宁波市鄞州区云龙镇甲村(架山)162号

建立的质量管理体系符合标准:

ISO9001:2008

GB/T 19001-2008

通过认证范围如下:

电磁继电器的设计、组装生产和服务

首次发证日期: 2008年8月15日 本次发证日期: 2011年8月9日 有效期至: 2014年8月8日

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Signed by: Wang Kejiao



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Q 0070390

2009年版



环境管理体系认证证书

证书编号：00112E21299R3M/3302

兹证明

浙江汇港电器有限公司

中国浙江省宁波市鄞州区云龙镇甲村（架山）162号

建立的环境管理体系符合标准：

ISO14001:2004

GB/T 24001-2004

通过认证范围如下：

电磁继电器的设计、生产及相关管理活动

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E 0012844

2009年版

Certificate of Compliance

Certificate: 1063017 (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.

Signature:

A handwritten signature in black ink, appearing to read 'Sebastian George', is written over a horizontal line.

PRODUCTS

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

Relays, Model HRA, with suffixes, open-type with dust cover, sealed construction, 1-pole, single throw with N.O. contacts and 2-pole, double-throw with N.O. and N.C. contacts, rated 1A, 120V ac, Gen; 1A, 24V dc; coils 3 - 24V dc.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 14 - 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.



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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