

SPECIFICATION

Type: CMA4-S-DC12V-C-E Relay

Code:

1.COIL DATA

1.1	Nominal Voltage	12VDC
1.2	Coil Resistance	90 Ω \pm 10% at 23℃
1.3	Nominal Current	133mA \pm 10% at 23℃
1.4	Operating Voltage	7.2VDC Max.
1.5	Release Voltage	1.2VDC Min.
1.6	Maximum Coil Voltage	15.6VDC(130% of Nominal Voltage)
1.7	Nominal Operating Power	1600mW

2.CONTACT DATA

2.1	Contact Arrangement	1 Form C
2.2	Contact Material	Ag Alloy
2.3	Contact rating	Resistive: NO/NC:40A/30A 14VDC
2.4	Max. Switching Voltage	75VDC
2.5	Max. Switching Current	40A
2.6	Max. Switching Power	420W
2.7	Contact Resistance (Initial)	Max.100m Ω at 6VDC 1A
2.8	Life Expectancy	
	(1) Electrical	100,000 operations at rate load (360 ops/hour)
	(2) Mechanical	10,000,000 operations at no load (18,000 ops/hour)

3.GENERAL DATA

3.1	Insulation Resistance	Min.100M Ω at 500VDC
3.2	Dielectric Strength(Leak current: 1mA)	
	(1) Between Contacts	500VAC, 1 min , 50/60Hz
	(2) Coil and Contact	500VAC, 1 min , 50/60Hz
3.3	Operate Time	Max. 5ms.
3.4	Release Time	Max. 3ms.
3.5	Temperature Range	-40 to +85℃
3.6	Storage Temperature	-40 to +85℃

3.7 Temperature Rise

3.7.1 Coil

70k Max.by resistance method when 40A/30A current is provided to contact and 110% of rated voltage to relay coil.

3.8 Shock

3.8.1 Endurance

1,000m/s², 6ms, 3shock (each direction of X, Y, Z)
No construction trouble on relay

3.8.2 Misoperation

100m/s², 11ms, 3shock (each direction of X, Y, Z)
No abnormalities in appearance and performance.

3.9 Vibration

3.9.1 Endurance

Double amplitude 1.5mm, 10~55Hz, 2hs.
No construction trouble on relay

3.9.2 Misoperation

Double amplitude 1.5mm, 10~55Hz, 5min
No abnormalities in performance.

3.10 Terminal Strength

1kg for 10sec by pushing and pulling the relay terminal.

3.11 Cold

-40±2℃, 2hour
No trouble on construction and relay performance

3.12 Dry Heat

85±2℃, 16hour
No trouble on construction and performance

3.13 Damp Heat

40±2℃, 90-95%, 48hour
No trouble on construction and performance
Insulation resistance 100M ohms Min.

3.14 Solderability

Solder should be finished on dipped surface
Soldering bath of melted solder at 260℃ for 5 sec.

3.15 Resistance to soldering Heating

No trouble on construction and relay
Performance when the relay terminals is dipped in the soldering bath 260℃ for 10 sec. or 350℃ for 3sec.

4 Nomenclature

CMA4 – S – DC24V – C – E
a b c d

a: Relay Series.

b: Coil Voltage DC24V

c: Contact Form

C: 1 Form C

d: European Type Terminal

5 Marking

The details pls refer to attachment
Y-CMA4-N5-01

5.1 Case Color

Black

5.2 Marking Position

Obverse side of Case

5.3 Marking Type

Laser marking

6 Dimensions

Pls refer to attachment HKE4.526.021

HKE PRODUCT CODE: 65.41.40.012

Y-CMA4-N5-01

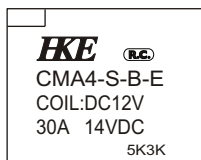
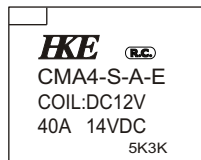
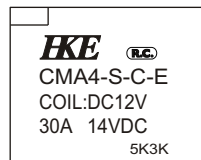


图1 1:1

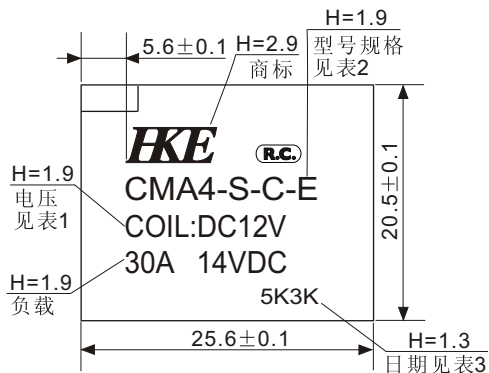


图1 1.5:1

表 1

COIL: DC12V
线圈电压: DC6V、DC9V、DC12V、DC24V

表 2

CMA4	S	C	E
型号	密封性: NIL:非塑封型 S:塑封型	触点形式 A:一组常开 B:一组常闭 C:一组转换	E:欧式脚位 U:美式脚位

表 3

5(年份)	K(月份)	3(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	MAKER

技术要求:

- 1.此标志图为环保产品的印字, **(R.C.)** 代表环保;
- 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

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

格式(1)

制图:

描图:

CMA4外壳(环保)
标志图
CMA4 Marking

Y-CMA4-N5-01

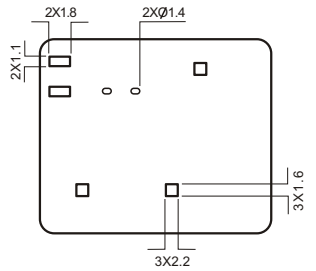
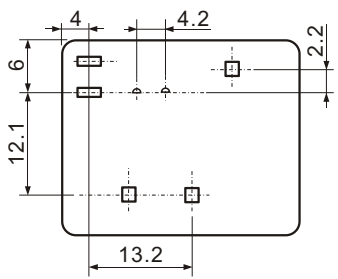
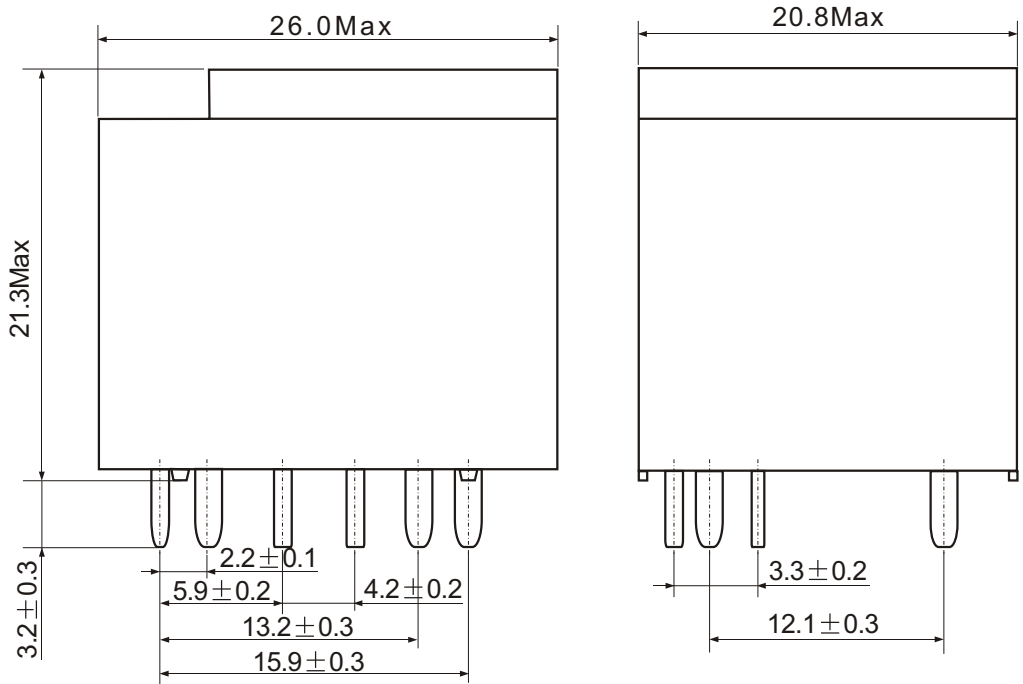
阶段 标记 质量 比例

第 张 共 张

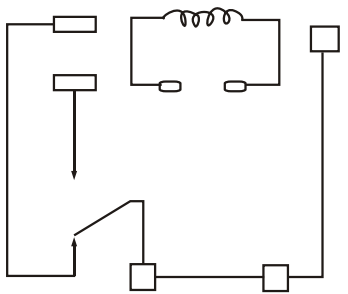
HKE

浙江汇港电器有限公司

幅面: A4



Connection Diagram(Bottom View)



Drilling Diagram(Bottom View)

CMA4-C-E Relay

HKE			
浙江汇港电器有限公司			
阶段	标记	质量	比例
第 张	共 张		
HKE4.526.021			

产品编号	
CMP7	
旧底图总号	
底图总号	
日期	签名
格式 (1)	

制图:

描图:

幅面: A4



QUALITY SYSTEM CERTIFICATE

Certificate No.:0105Q12371R2M/3302

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

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

ISO9001:2000

The Quality Management System Applies in the following area:
The Design, Manufacture of Electromagnetic Relay and Service

Date of Issue: Jul. 21, 2005

Valid Until: Jul. 20, 2008



Register Number: CNAB001-Q

Accredited by Member
of the IAF
MLA for QMS

李怀林

Signed by: Li huailin



CHINA QUALITY CERTIFICATION CENTRE

A10 Chaoyangmenwaidajie Beijing 100020 P.R.China

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

A 0059679



ISO14001 CERTIFICATE

Certificate No.: 0106E20573R1M/3302

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

28 Jiacun Industry Zone, 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

ISO14001:2004

The Environmental Management System Applies in the following area:

Development, Design and Manufacture of Relays and Related Management Activities

Date of issue: Dec. 31, 2006

Date of expiry: Dec. 30, 2009

The validity of the certificate depends on the surveillance audit by the certification body at regular intervals
The validity information of the certificate shall be inquired from the website www.cqc.com.cn



Register Number: CNAB001-E



李怀林

Signed by: Li huailin



CHINA QUALITY CERTIFICATION CENTRE

A10, Chaoyangmenwaidajie, Beijing, 100020, P.R.China

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



Certificate of Registration

QUALITY MANAGEMENT SYSTEM

This is to certify that:

Zhejiang HKE Relay Co., Ltd.
JiaCun, YinZhou District
Ningbo
Zhejiang 315135
P. R. China

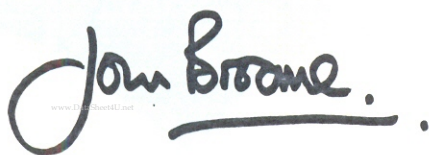
Holds Certificate No: **TS 93125**

and operates a Quality Management System which complies with the requirements of ISO/TS 16949:2002 for the following scope:

The design and manufacture of electromagnetic relays.

Permitted Exclusions: None

For and on behalf of BSI:


www.bsi.co.uk

Certification Manager, Systems Assessment

Originally registered: **16/05/2006**

Latest issue: **16/05/2006**

Expiry date: **15/05/2009**

IATF Number: **0021450**



Page: 1 of 1

This certificate relates to the Management System, not to the products or services of the certified organization.

This certificate does not provide the certified organization with immunity from its legal obligations.

This certificate remains the property of BSI and shall be returned immediately upon request.

To check its validity contact BSI China at telephone: +86 10 65157060

Further clarifications regarding the scope of this certificate and the applicability of ISO/TS16949:2002 requirements may be obtained by consulting the organization. This certificate is valid only if the provided original copies are in a complete set.

IATF Contracted Office: 12110 Sunset Hills Road, Suite 200, Reston, VA20190, USA

China Headquarters: Room 2008 East Ocean Canter, No. 24A Jianguomenwai Street, Beijing 100004, P.R. China
BSI China is a subsidiary of British Standards Institution.

BSI
Management
Systems