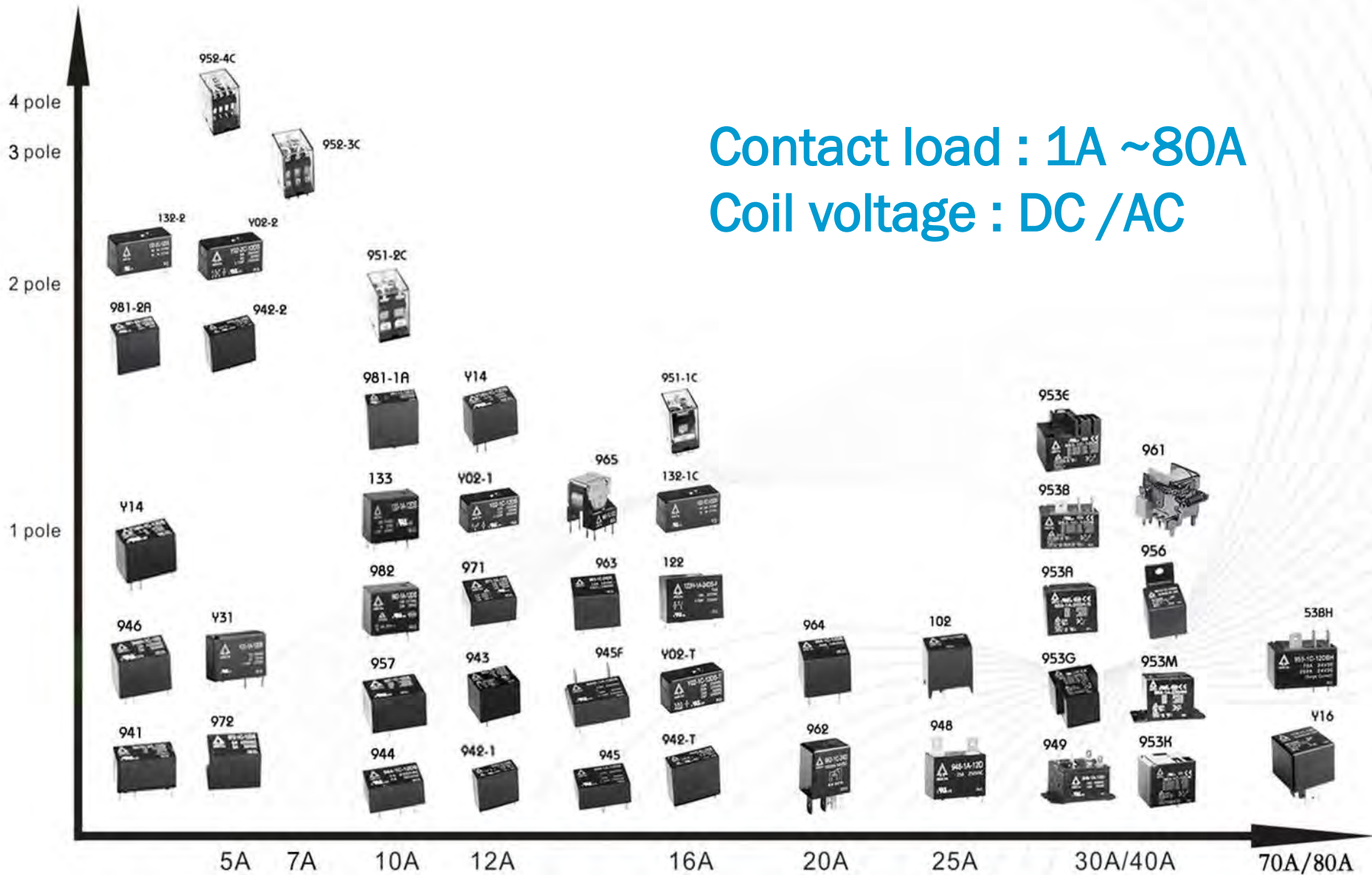




RELAYS



AUTOMATIC PRODUCTION LINES



CERTIFICATE OF QUALITY SYSTEM



This is to certify that:

Adage's Manufacture

No. 8 Tengfei Road, Kunlun Economic Development Zone, Liyang, Jiangsu, 213300, China

Operates a
QUALITY MANAGEMENT SYSTEM

Which complies with the requirements of
IATF 16949:2016

For the following scope of registration:
The design and manufacture of relays

Certificate No.: IATF20447
IATF Database No.: 0323734

Issue Date: 15 August 2018
Expiry Date: 14 August 2021

K. G. G. G.
Karin Goodwin
General Manager Technical Services
SAI Global Assurance

G. A. G. G.
Gerhard Aptsch
Automotive Technical Manager



SAI GLOBAL



This is to certify that:

Adage's Manufacture

No. 8 Tengfei Road, Kunlun Economic Development Zone, Liyang, Jiangsu, 213300, China

operates a
QUALITY MANAGEMENT SYSTEM

which complies with the requirements of
ISO 9001:2015

for the following scope:
The design, manufacture, sales and service of relay series and socket series

Certificate No: QEC26150

Issued: 15 August 2018
Expires: 14 August 2021

Originally Certified: 15 January 2007
Current Certification: 15 August 2018

K. G. G. G.
Karin Goodwin
General Manager Technical Services
SAI Global Assurance



SAI GLOBAL



ISO 9001

IATF 16949

TUV

5

VDE Prüf- und Zertifizierungsinstitut

ZEICHENGENEHMIGUNG MARKS APPROVAL

Hsiao Da Precision Co., Ltd.
10F., No.311, Zhongxing Road,
Dongsha District
235 NEW TAIPEI CITY
TAIWAN

as bearing, for the Product
is submitted to us for the product

Elektronomechanisches Elementarrelais
Electromechanical elementary relay
945

See the application for information on certification process
for the approval of a product for export purposes
The signed passport Mark is shown below for the type submitted for approval

Insert your passport mark
Insert any certified according to

EN 60743-1:2004, IEC 60743-1:2004, EN 60743-2:2004
IEC 60743-2:2004

Marking: see the application form

File no:

Accession No.: 434/175

Date:

Duration:

Page:

Comments: see the application form

Classification: 2014-12-19

Service Agreement: see the application form

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Dortmund, Germany

[Signature]

VDE certifies that the product conforms to the
VDE standard and is suitable for use in the
VDE member state

For more information, see the
VDE website: www.vde.com

VDE

[illegible]



检测报告

Test Report

第 1 页 共 2 页

Page 1 of 2

报告编号: AQ00010040002

Report No.: AQ00010040002

申请单位: 深圳市艾斯普电子有限公司

Applicant: SHEN ZHEN AISIPU ELECTRONIC CO., LTD

地址: 广东省深圳市宝安区西乡街道铁岗社区

Address: NO. 1 TONGHAI ROAD, XIXIANG ECONOMIC DEVELOPMENT ZONE OF SHENZHEN CITY, GUANGDONG, CHINA.

样品名称: 2018-02-07

Sample Name: Feb. 7, 2018

样品检测日期: 2018-02-07-2018-02-10

Sampling Detail: Feb. 7, 2018 to Feb. 10, 2018

检测项目: 有害物质检测 (RoHS) (Hazardous Substance)

Test Requested: As specified to comply with the EU's restriction of hazardous substances (RoHS) under Regulation (EC) No. 1907/2006 and (EC) No. 1005/2006.

检测标准/检测方法: 依据 GB 17520

Test Standard/Test Method: Please refer to the following page(s).

检测结果/结论: 有害物质含量符合 GB 17520 标准要求 (Satisfactory)

Summary: According to the analytical results, concentrations of all RoHS substances are all less than 0.1% (w/w) in the submitted samples.

检测单位: 中国计量科学研究院

Inspected by: 徐忠娟

检测日期: 2018-02-10

Inspected on: 2018-02-10

检测单位: 中国计量科学研究院

Inspected by: 王中平

检测日期: 2018-02-10

Inspected on: 2018-02-10



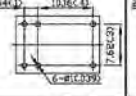
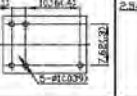
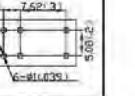
中国计量科学研究院

China National Center of Metrology

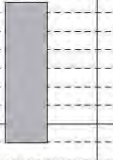
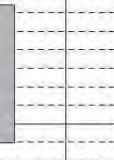
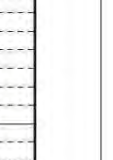
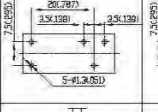
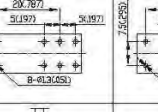
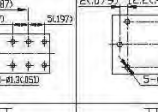
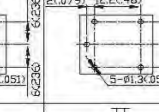
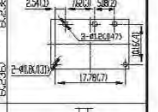
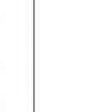
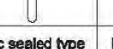
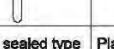
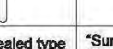
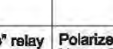
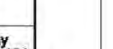
第 2 页 共 2 页

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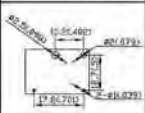
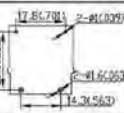
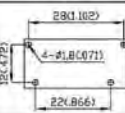
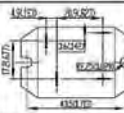
CLASSIFICATION

CLASSIFICATION 分类		Signal Relay Series 通讯继电器			
MODEL 型号		941	946	946-F	Y14
APPEARANCE 外观					
OUTLINE DIMENSION 外形尺寸		20.2×9.8×11.5	15.5×10.6×11.5	15.5×10.6×11.5	12.3×7.6×10.3
CONTACT ARRANGEMENT 接点形式		2C	1C	1C	1C
Contact Rating CosΦ=1 接点负载		1A 125VAC 2A 30VDC	1A 125VAC 2A 30VDC	1A 125VAC 2A 30VDC	0.5A 125VAC 1A 24VDC
Max. Switching Current(A) 最大切换电流 (A)	70 40 30 20 15 10 8 5 3 2 1				
Min. Switching Current(mA) 最小切换电流 (mA)	100 10 1 0.5				
Max. Switching Voltage 最大切换电压		130%	130%	130%	130%
Nominal Voltage 额定电压	DC AC	3V~48V	3V~24V	3V~24V	3V~24V
Nominal Power 额定功率	DC AC	0.15W~0.51W	0.2W~0.36W	0.2W~0.36W	0.15W~0.2W
Dielectric Strength (绝缘强度)	Open Contact 接点间	500V	500V	500V	400V
	Contact and Coil 接点与线圈间	1000V	500V	500V	1000V
Surge Strength 冲击强度		1500V	1500V	1500V	1500V
Electrical Life (电气寿命)		1×10 ⁵	1×10 ⁵	1×10 ⁵	1×10 ⁵
Mechanical Life (机械寿命)		1×10 ⁷	1×10 ⁷	1×10 ⁷	1×10 ⁷
Ambient temperature(Operating) 环境温度(工作温度)		-30℃~+70℃	-30℃~+70℃	-30℃~+70℃	-30℃~+70℃
Terminal Layout 脚位图					
Terminal Shape 端子形状					
Remarks 备注		FCC Standard DIL pitch terminal 2 Form C	FCC Standard DIL pitch terminal Plastic sealed type	FCC Standard DIL pitch terminal Plastic sealed type	FCC Standard Extremely small size & light weight
PAGE		15	18	18	21

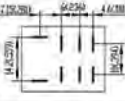
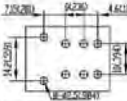
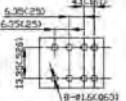
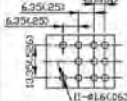
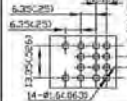
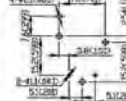
CLASSIFICATION

Power Relay Series 功率继电器					
942-1	942-2	942-T	943-7A	943-10A	944
					
29.4×12.6×25.6		18.9×15.3×15.2		18.9×15.3×15.2	18.9×12.6×9.8
1A 1C	2A 2C	1A 1C	1A 1C	1A 1C	1A 1C
12A 250VAC 12A 30VDC TV-5(1A ONLY)	5A 250VAC 5A 30VDC TV-3(2A ONLY) 7A 250VAC 7A 30VDC	16A 250VAC 20A 125VAC 20A 30VDC SPNO only TV-8	12A 125VAC 7A 30VDC/250VAC TV-5(1A ONLY)	10A 277VAC 12A 30VDC TV-5(1A ONLY)	1C: 7A 240VAC/30VDC 1A: 10A 240VAC/30VDC
					
100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC
130%	130%	130%	130%	130%	130%
3V~110V	3V~110V	3V~110V	3V~48V	3V~48V	3V~24V
6V~240V	6V~240V	6V~240V			
0.54W~0.72W	0.54W~0.72W	0.54W~0.72W	0.36W	0.36W	0.2W
0.9VA~1.2VA	0.9VA~1.2VA	0.9VA~1.2VA			
1000V	1000V	1000V	750V	750V	1000V
5000V	5000V	5000V	1500V	1500V	2000V
10,000V	10,000V	10,000V	2500V	2500V	5000V
1×10 ⁵	1×10 ⁵	1×10 ⁵	1×10 ⁵	1×10 ⁵	1×10 ⁵
1×10 ⁷	1×10 ⁷	1×10 ⁷	1×10 ⁷	1×10 ⁷	1×10 ⁷
-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃
					
					
Plastic sealed type TV-3/5 type available Insulation distance:8mm High surge:10KV	Plastic sealed type TV-3 type available Insulation distance:8mm High surge:10KV	Plastic sealed type TV-8 type available Insulation distance:8mm High surge:10KV	"Surge cube" relay PTI 250V available 12A Switching TV-5 Rating 3KV available	"Surge cube" relay PTI 250V available 12A Switching TV-5 Rating 3KV available	Polarized Relay Heavy Current:10A DIL pitch terminal
24			29	32	36

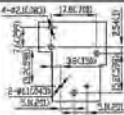
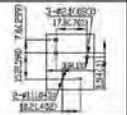
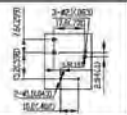
CLASSIFICATION

CLASSIFICATION 分类		Power Relay Series 功率继电器				
MODEL 型号		945	945-F	948	949	
APPEARANCE 外观						
OUTLINE DIMENSION 外形尺寸		23×16.1×10.2	24.5×23×13.6	30.1×15.7×23.3	50×32.2×24	
CONTACT ARRANGEMENT 接点形式		1A	1A	1A	1A	
Contact Rating CosΦ=1 触点负载		15A 250VAC 10A 30VDC	15A 250VAC 10A 30VDC	25A 250VAC	30A 250VAC 30A 28VDC	
Max. Switching Current(A) 最大切换电流 (A)	70					
	40					
	30					
	20					
	15					
Min. Switching Current(mA) 最小切换电流 (mA)	100	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	
	10					
	1					
	0.5					
Max. Switching Voltage 最大切换电压		130V	130V	130V	130V	
Nominal Voltage (额定电压)		DC	5V~24V	5V~24V	5V~24V	6V~48V
		AC				
Nominal Power (额定功率)		DC	0.2W	0.2W	0.9W	1.2W
		AC				
Dielectric Strength (绝缘强度)	Open Contact接点间	1000V	1000V	1000V	1200V	
	Contact and Coil接点与线圈间	2000V	2000V	4500V	4000V	
Surge Strength (冲击强度)		5000V	5000V		7000V	
Electrical Life (电气寿命)		1×10 ⁶	1×10 ⁶	1×10 ⁶	1×10 ⁶	
Mechanical Life (机械寿命)		1×10 ⁶	1×10 ⁶	1×10 ⁷	1×10 ⁷	
Ambient temperature(Operating) 环境温度(工作温度)		-40℃ ~ +105℃	-40℃ ~ +105℃	-40℃ ~ +65℃	-40℃ ~ +85℃	
Terminal Layout 脚位图						
Terminal Shape 端子形状						
Remarks 备注		Low profile 10mm 15A Switching capacity			30A rating Inrush current 65A Surge strength 4KV Tab terminal	
PAGE		39	39	42	45	

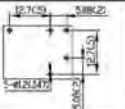
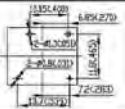
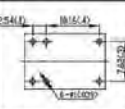
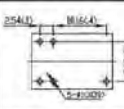
CLASSIFICATION

Power Relay Series 功率继电器					
951	951	952			953(Open)
					
					
27.7×21.1×34.6	27.7×21.1×34.6	27.7×21.1×35			27.5×24.1×14.9
1A 1C	2A 2C	2C	3C	4C	1A 1C
1C: 16A 250VAC/30VDC 1A: 20A 250VAC 16A 30VDC	10A 250VAC 10A 30VDC	7A 250VAC 7A 30VDC	7A 250VAC 7A 30VDC	5A 250VAC 5A 30VDC	NO: 30A 240VAC 20A 277VAC 20A 30VDC 2HP 250VAC NC: 20A 240VAC 15A 277VAC 10A 30VDC 1/2 HP 250VAC
					
100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC
110% 6V~100V 12V~240V	110% 6V~100V 12V~240V	110% 6V~100V 12V~240V	110% 6V~100V 12V~240V	110% 6V~100V 12V~240V	130% 5V~48V 6V~220V
0.9W 1.2VA 500V	0.9W 1.2VA 500V	0.9W 1.2VA 500V	0.9W 1.2VA 500V	0.9W 1.2VA 500V	0.9W 1.2VA~1.8VA 1500V
1500V	1500V	1500V	1500V	1500V	2500V
1×10^5	1×10^5	1×10^5	1×10^5	1×10^5	1×10^5
1×10^1	1×10^7	1×10^7	1×10^7	1×10^7	1×10^7
-25°C ~ +55°C	-25°C ~ +55°C	-25°C ~ +55°C	-25°C ~ +55°C	-25°C ~ +55°C	-40°C ~ +85°C
					
					
Compact, general-purpose 16A and 10A relays Ideal for many application	Compact, general-purpose 16A and 10A relays Ideal for many application	Compact, general-purpose 7A and 5A relays Ideal for many application			30A rating Meet UL873 and UL508 spacing Open type
48	48	53			80

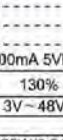
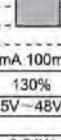
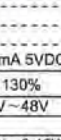
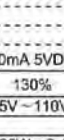
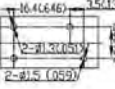
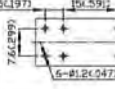
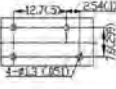
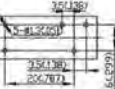
CLASSIFICATION

CLASSIFICATION 分类		Power Relay Series 功率继电器			
MODEL 型号		953G	953A	953B	953E
APPEARANCE 外观					
OUTLINE DIMENSION 外形尺寸		31.8×27.4×19.7	32.1×27.4×27.8	32.1×27.4×19.8	32.1×27.4×20.1
CONTACT ARRANGEMENT 接点形式		1A 1C	1A 1C	1A 1C	1A 1C
Contact Rating Cosφ=1 接点负载		NO: 30A 240VAC 20A 277VAC 20A 30VDC 2HP 250VAC NC: 20A 240VAC 15A 277VAC 10A 30VDC 1/2 HP250VAC	NO: 30A 240VAC 20A 277VAC 20A 30VDC 2HP 250VAC NC: 20A 240VAC 15A 277VAC 10A 30VDC 1/2 HP250VAC	NO: 30A 240VAC 20A 277VAC 20A 30VDC 2HP 250VAC NC: 20A 240VAC 15A 277VAC 10A 30VDC 1/2 HP250VAC	NO: 30A 240VAC 20A 277VAC 20A 30VDC 2HP 250VAC NC: 20A 240VAC 15A 277VAC 10A 30VDC 1/2 HP250VAC
Max. Switching Current(A) 最大切换电流 (A)	70				
	40				
	30				
	20				
	15				
Min. Switching Current(mA) 最小切换电流 (mA)	100				
	10				
	1				
	0.5				
Max. Switching Voltage 最大切换电压		130%	130%	130%	130%
Nominal Voltage 额定电压	DC	5V ~ 48V	5V ~ 48V	5V ~ 48V	5V ~ 48V
	AC	6V ~ 220V	6V ~ 220V	6V ~ 220V	6V ~ 220V
Nominal Power 额定功率	DC	0.9W	0.9W	0.9W	0.9W
	AC	1.2VA ~ 1.8VA	1.2VA ~ 1.8VA	1.2VA ~ 1.8VA	1.2VA ~ 1.8VA
Dielectric Strength (绝缘强度)	Open Contact 接点间	1500V	1500V	1500V	1500V
	Contact and Coil 接点与线圈间	2500V	2500V	2500V	2500V
Surge Strength 冲击强度					
Electrical Life (电气寿命)		1 × 10 ⁶	1 × 10 ⁶	1 × 10 ⁶	1 × 10 ⁶
Mechanical Life (机械寿命)		1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷
Ambient temperature (Operating) 环境温度 (工作温度)		-40℃ ~ +85℃	-40℃ ~ +85℃	-40℃ ~ +85℃	-40℃ ~ +85℃
Terminal Layout 脚位图					
Terminal Shape 端子形状					
Remarks 备注		30A rating Meet UL873 and UL508 spacing	30A rating Meet UL873 and UL508 spacing	30A rating Meet UL873 and UL508 spacing	30A rating Meet UL873 and UL508 spacing
PAGE		60	65	69	73

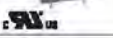
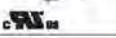
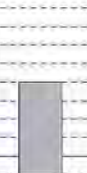
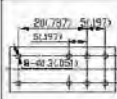
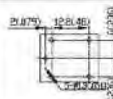
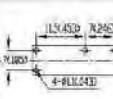
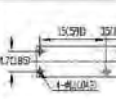
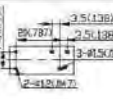
CLASSIFICATION

Power Relay Series 功率继电器					
953K	953M	957	971	972	972-F
					
32.1×27.4×27.8	50×27.4×27.8	21.4×16.5×14.2	18.5×15.3×10.4	15.5×10.6×11.5	
1A 1C	1A 1C	1A 1C	1A	1C	
NO: 30A 240VAC 20A 277VAC 20A 30VDC 2HP 250VAC NC: 20A 240VAC 15A 277VAC 10A 30VDC 1/2 HP250VAC	NO: 30A 240VAC 20A 277VAC 20A 30VDC 2HP 250VAC NC: 20A 240VAC 15A 277VAC 10A 30VDC 1/2 HP250VAC	10A 120VAC 10A 28VDC 5A 240VAC	12A 125VAC 10A 277VAC 10A 30VDC 1/4HP 250VAC 1/4HP 125VAC	5A 125VAC 5A 30VDC 3A 250VAC	
					
100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC
130% 5V ~ 48V	130% 5V ~ 48V	130% 3V ~ 48V	130% 3V ~ 24V	130% 3V ~ 24V	130% 3V ~ 24V
6V ~ 220V	6V ~ 220V				
0.9W	0.9W	0.32W ~ 0.45W	0.45W	0.36W	0.36W
1.2VA ~ 1.8VA	1.2VA ~ 1.8VA				
1500V	1500V	750V	500V	500V	500V
2500V	2500V	2000V	2500V	500V	500V
		7000V	5000V		
1 × 10 ⁵	1 × 10 ⁵	1 × 10 ⁵	1 × 10 ⁵	1 × 10 ⁵	1 × 10 ⁵
1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷
-40℃ ~ +65℃	-40℃ ~ +65℃	-40℃ ~ +65℃	-40℃ ~ +65℃	-30℃ ~ +70℃	-30℃ ~ +70℃
					
					
30A rating Meet UL873 and UL508 spacing	30A rating Meet UL873 and UL508 spacing	10A small size UL Class B Insulation	High rating 12A TV-5 rating Surge strength:5000V		
77	81	85	88	91	

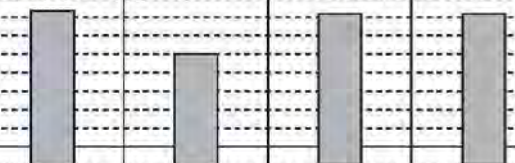
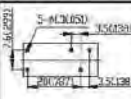
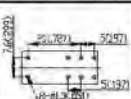
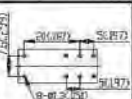
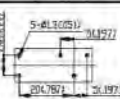
CLASSIFICATION

CLASSIFICATION 分类		Power Relay Series 功率继电器			
MODEL 型号		981-1A-TV	981-2A-SP7	982	Y02-1
APPEARANCE 外观					
OUTLINE DIMENSION 外形尺寸		24×10×25	24.4×12.8×24.6	18.4×10.3×15.6	28.9×12.6×15.6
CONTACT ARRANGEMENT 接点形式		1A	2A	1A	1A 1C
Contact Rating CosΦ=1 接点负载		10A 250VAC 10A 30VDC TV-8	5A 125VAC 5A 30VDC 8A 50VAC	10A 277VAC 10A 30VDC	12A 250VAC 1/2HP 240VAC 1/3HP 120VAC
Max. Switching Current(A) 最大切换电流 (A)	70				
	40				
	30				
	20				
	15				
	10				
	8				
	5				
	3				
	2				
1					
Min. Switching Current(mA) 最小切换电流 (mA)	100				
	10				
	1				
	0.5				
	0.5				
Max. Switching Voltage 最大切换电压		130%	130%	130%	130%
Nominal Voltage 额定电压	DC	3V ~ 48V	5V ~ 48V	3V ~ 48V	5V ~ 110V
	AC				
Nominal Power 额定功率	DC	0.25W/0.54W	0.54W	0.2W ~ 0.45W	0.25W ~ 0.4W
	AC				
Dielectric Strength (绝缘强度)	Open Contact接点间	1000V	1000V	1000V	1000V
	Contact and Coil接点与线圈间	4000V	4000V	4000V	5000V
Surge Strength 冲击强度		10000V	7000V	10000V	7000V
Electrical Life 电气寿命		1 × 10 ⁶	1 × 10 ⁶	1 × 10 ⁵	1 × 10 ⁶
Mechanical Life 机械寿命		1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷	1 × 10 ⁷
Ambient temperature(Operating) 环境温度(工作温度)		-40℃ ~ +85℃	-40℃ ~ +85℃	-40℃ ~ +85℃	-40℃ ~ +85℃
Terminal Layout 脚位图					
Terminal Shape 端子形状					
Remarks 备注		TV-8 rating High sensitive with coil power consumption of 250mw and 540mw. Model conforming to UL508 and SEMKO are available.	Speaker Protection relays Crossbar contact	3-10A rating 4000V coil-contact breakdown Surge strength:10KV	Up to 12A 1 Form C 5kv/10mm Insulation
PAGE		94	97	100	103

CLASSIFICATION

Power Relay Series 功率继电器					
Y02-2	Y02-T	Y21	Y31	Y31-A	122
					
					
28.9×12.6×15.6	28.9×12.6×15.6	21.6×15.6×18.5	20.3×7×15.1	20.3×7×15.1	28.2×12.6×20.6
2A 2C	1A 1C	1A 1C	1A	1A	1A 1C
8A 250VAC 5A 30VDC 1/2HP 240VAC 1/4HP 120VAC	16A 250VAC 20A 125VAC 1HP 240VAC 1/2HP 120VAC	10A 125VAC 8A 30VDC TV-5(1A ONLY)	5A 250VAC 5A 30VDC 1/8HP 240VAC	5A 250VAC 5A 30VDC 1/8HP 240VAC	1A: 16A 277VAC 1C: NO:16A 277VAC NC:8A 277VAC
					
100mA 5VDC 130% 5V~110V 0.25W~0.4W	100mA 5VDC 130% 5V~110V 0.25W~0.4W	100mA 5VDC 130% 3V~48V 0.36W~0.4W	100mA 5VDC 130% 5V~24V 0.2W	100mA 5VDC 130% 5V~24V 0.2W	100mA 5VDC 130% 5V~24V 0.54W~0.72W
1000V 5000V 7000V 1×10 ⁶ 1×10 ⁷ -40℃~+85℃	1000V 5000V 7000V 1×10 ⁶ 1×10 ⁷ -40℃~+85℃	750V 2000V 4500V 1×10 ⁶ 1×10 ⁷ -40℃~+85℃	750V 4000V 5000V 1×10 ⁶ 1×10 ⁷ -40℃~+85℃	750V 4000V 5000V 1×10 ⁶ 1×10 ⁷ -40℃~+85℃	1500V 5000V 10,000V 1×10 ⁶ 1×10 ⁷ -40℃~+105℃
					
					
Up to 8A 2 Form C TV-3 rating 5KV/10mm Insulation	Up to 16A 1 Form C TV-8 rating 5KV/10mm Insulation	Subminiature relay "Surge cube" 10A Switching PT1250V available	Nominal power 200mW Small size Surge Strength 10KV(1×50us) between coil and contact		
103	103	108	111		114

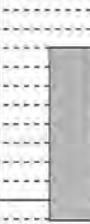
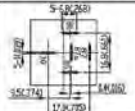
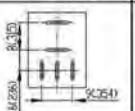
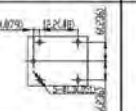
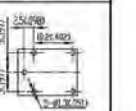
CLASSIFICATION

CLASSIFICATION 分类		Power Relay Series 功率继电器			
MODEL 型号		132-1	132-2	132-T	1321-1
APPEARANCE 外观					
OUTLINE DIMENSION 外形尺寸		28.9×12.6×15.8	28.9×12.6×15.8	28.9×12.6×15.8	28.9×12.6×15.8
CONTACT ARRANGEMENT 接点形式		1A 1C	2A 2C	1A 1C	1A 1C
Contact Rating Cosφ=1 触点负载		1A: 16A 277VAC 1C: NO:16A 277VAC NC:8A 277VAC	2A: 8A 277VAC 2C: NO:8A 277VAC NC:4A 277VAC	1A: 16A 277VAC 1C: NO 16A 277VDC NC 8A 277VDC	1A: 16A 277VAC 1C: NO 16A 277VDC NC 8A 277VDC
Max. Switching Current(A) 最大切换电流 (A)	70				
	40				
	30				
	20				
	15				
	10				
	8				
	5				
	3				
	2				
1					
Min. Switching Current(mA) 最小切换电流 (mA)	100	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC
	10				
	1				
	0.5				
Max. Switching Voltage 最大切换电压		130%	130%	130%	130%
Nominal Voltage (额定电压)	DC	5V~24V	5V~24V	5V~24V	5V~24V
	AC				
Nominal Power (额定功率)	DC	0.4W	0.4W	0.4W	0.4W
	AC				
Dielectric Strength (绝缘强度)	Open Contact接点间	1000V	1000V	1000V	1000V
	Contact and Coil接点与线圈间	5000V	5000V	5000V	5000V
Surge Strength (冲击强度)		7000V	7000V	7000V	7000V
Electrical Life (电气寿命)		1×10 ⁶	1×10 ⁶	1×10 ⁶	1×10 ⁶
Mechanical Life (机械寿命)		1×10 ⁶	1×10 ⁶	1×10 ⁶	1×10 ⁶
Ambient temperature(Operating) 环境温度(工作温度)		-40℃ ~ +105℃	-40℃ ~ +105℃	-40℃ ~ +105℃	-40℃ ~ +105℃
Terminal Layout 端子图					
Terminal Shape 端子形状					
Remarks 备注					
PAGE		117			

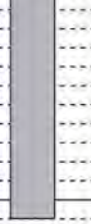
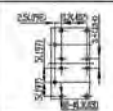
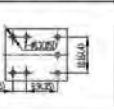
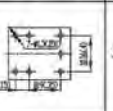
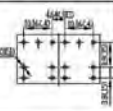
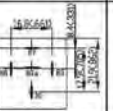
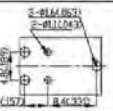
CLASSIFICATION

Power Relay Series 功率继电器		Automotive Relay Series 车用继电器			
133	134	956(Open)	956	956-A	961
					
18.2×10.2×15.5	19.8×9.9×15.2	22.9×18.4×17.9	26×21×20.5	26×21×20.5	28.1×28.2×25.6
1A	1A 1C	1A 1C	1A 1C	1A 1C	1A 1C 2A
10A 250VAC	NO: 5A 277VAC NC: 3A 277VAC	1A: 40A 14VDC 1C: NO 40A 14VDC NC 20A 14VDC	1A: 40A 14VDC 1C: NO 40A 14VDC NC 20A 14VDC	1A: 30A 14VDC 1C: NO 30A 14VDC NC 20A 14VDC	1A 2A: 30A 12VDC 1C: NO 30A 12VDC NC 20A 12VDC
					
100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC
130% 5V~24V	130% 5V~24V	110% 3V~24V	110% 3V~24V	110% 3V~24V	110% 6V~24V
0.2 W~0.45W	0.2 W~0.4W	1.2 W~1.6W	1.2 W~1.6W	1.2 W~1.6W	1.6W
1000V	750V	1000V	1000V	1000V	500V
4000V	4000V	1500V	1500V	1500V	500V
5000V					
1×10 ⁶	1×10 ⁶	1×10 ⁶	1×10 ⁶	1×10 ⁶	1×10 ⁶
1×10 ⁶	1×10 ⁷	1×10 ⁷	1×10 ⁷	1×10 ⁷	1×10 ⁷
-40℃~-105℃	-40℃~-85℃	-40℃~-85℃	-40℃~-85℃	-40℃~-85℃	-40℃~-85℃
					
					
		40A continuous Contact rating Choice of two footprints Available as open frame or sealed Relay	40A continuous Contact rating Choice of two footprints Available as open frame or sealed Relay		40A continuous Contact rating Optional mounting bracket
121	124		127		131

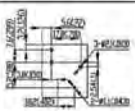
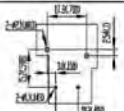
CLASSIFICATION

CLASSIFICATION 分类		Automotive Relay Series 车用继电器			
MODEL 型号		961A	962	963	964
APPEARANCE 外观					
OUTLINE DIMENSION 外形尺寸		28.1×26.2×25.6	22×15.7×24.1	18.9×15.3×15.2	15.6×12.4×13.6
CONTACT ARRANGEMENT 接点形式		1A 1C 2A	1A 1C	1A 1C	1A 1C
Contact Rating CosΦ=1 接点负载		1A 2A: 40A 12VDC 1C: NO 40A 12VDC NC 30A 12VDC	1A: 20A 14VDC 1C: NO 20A 14VDC NC 10A 14VDC	15A 14VDC	20A 14VDC
Max. Switching Current(A) 最大切换电流 (A)	70				
	40				
	30				
	20				
	15				
	10				
	8				
	5				
	3				
	2				
	1				
Min. Switching Current(mA) 最小切换电流 (mA)	100				
	10				
	1				
	0.5				
Max. Switching Voltage 最大切换电压		110%	110%	110%	110%
Nominal Voltage 额定电压		DC	6V~24V	6V~24V	3V~48V
		AC	6V~24V	6V~24V	6V~24V
Nominal Power 额定功率		DC	1.6W	1.2W~1.5W	0.36W~0.8W
		AC	1.6W	1.2W~1.5W	0.6W~0.8W
Dielectric Strength (绝缘强度)	Open Contact接点间	500V	500V	750V	500V
	Contact and Coil接点与线圈间	500V	1000V	1500V	1000V
Surge Strength 冲击强度					
Electrical Life (电气寿命)		1×10 ⁶	1×10 ⁶	1×10 ⁶	1×10 ⁶
Mechanical Life (机械寿命)		1×10 ⁷	1×10 ⁷	1×10 ⁷	1×10 ⁷
Ambient temperature(Operating) 环境温度(工作温度)		-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃
Terminal Layout 脚位图					
Terminal Shape 端子形状					
Remarks 备注		40A continuous Contact rating Optional mounting bracket	16A continuous rating Plug-in PCB terminal	Miniature PCB relay Plastic sealed type Three kinds of resistance: 180Ω, 320Ω and 400Ω or selection with coil voltage 12VDC	Compact, light weight structure High Current capacity Carrying current 35A/10min, 25A/1hr Two type of contact Gap 964: 0.3mm, 964-1: 0.6mm
PAGE		131	136	139	142

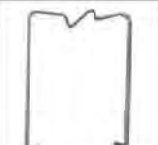
CLASSIFICATION

Automotive Relay Series 车用继电器					
964-T	965(Open)	965	965T	Y16	102
					
15.6×25.4×13.6	14.5×13×17.2	17.6×14.8×19.9	29.6×17.8×19.7	28×28×25	14×9.2×15.6
1A 1C	1A 1C 1U 1V 1W	1A 1C 1U 1V 1W	1A 1C 1U 1V 1W	1A 1C	1C
20A 14VDC	1A: 15A 14VDC 1C: NO 15A 14VDC NC 10A 14VDC 1U: 2×10A 14VDC 1V: 2×7.5A 14VDC 1W: NO 2×10A 14VDC NC 2×7.5A 14VDC	1A: 15A 14VDC 1C: NO 15A 14VDC NC 10A 14VDC 1U: 2×10A 14VDC 1V: 2×7.5A 14VDC 1W: NO 2×10A 14VDC NC 2×7.5A 14VDC	1A: 15A(14VDC) 1C: NO 15A 14VDC NC 10A 14VDC 1U: 2×10A (14VDC) 1V: 2×7.5A 1W: NO 2×10A NC 2×7.5A	1A: 80A 14VDC 1C: NO 80A 14VDC NC 60A 14VDC	25A 14VDC
					
100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC	100mA 5VDC
110%	110%	110%	110%	110%	110%
6V~24V	6V~24V	6V~24V	6V~24V	6V~24V	12V
0.6W~0.8W	1.1W	1.1W	1.1W	2W	0.65W
500V	750V	750V	750V	500V	500V
500V	1500V	1500V	1500V	500V	500V
1×10 ⁶	1×10 ⁶	1×10 ⁶	1×10 ⁶	1×10 ⁶	1×10 ⁶
1×10 ⁷	1×10 ⁷	1×10 ⁷	1×10 ⁷	1×10 ⁷	1×10 ⁷
-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃	-40℃~+85℃
					
					
Compact, light weight structure High Current capacity Carrying current 35A/10min, 25A/1hr Two type of contact Gap 964: 0.3mm, 964-1: 0.6mm	Single and Double contact 15ASwitching	Single and Double contact 15ASwitching	Twin type of 965 type	80A rating Quick connect or PCB terminal	
142	146	146	146	150	153

SOCKET

CLASSIFICATION 分类		Other Relay Series 其他继电器			
MODEL 型号		953BH	953GF		
APPEARANCE 外观					
OUTLINE DIMENSION 外形尺寸		32.1×27.4×19.8	31.8×27.4×19.7		
CONTACT ARRANGEMENT 接点形式		1A 1C	1A		
Contact Rating CosΦ=1 接点负载		70A 24VDC	40A 277VAC		
Max. Switching Current(A) 最大切换电流 (A)	70				
	40				
	30				
	20				
	15				
	10				
	8				
	5				
	3				
	2				
	1				
Min. Switching Current(mA) 最小切换电流 (mA)	100				
	10				
	1				
	0.5				
Max. Switching Voltage 最大切换电压		110%	130%		
Nominal Voltage (额定电压)	DC	12V, 24V	5V ~ 48V		
	AC				
Nominal Power (额定功率)	DC	0.9W	0.9W		
	AC				
Dielectric Strength (绝缘强度)	Open Contact 接点间	1500V	1500V		
	Contact and Coil 接点与线圈间	2500V	2500V		
Surge Strength (冲击强度)					
Electrical Life (电气寿命)		1 × 10 ⁵	1 × 10 ⁴		
Mechanical Life (机械寿命)		1 × 10 ⁷	1 × 10 ⁷		
Ambient temperature(Operating) 环境温度(工作温度)		-40℃ ~ +85℃	-40℃ ~ +85℃		
Terminal Layout 脚位图					
Terminal Shape 端子形状					
Remarks 备注		70A rating Inrush current: 250A	40A rating UL508		
PAGE		156	159		

SOCKET

PTF08A-A	PTF11A-A	PTF14A-A	PTF08A-E	PTF11A-K
				
162	162	162	163	163
PTF14A-K	PYF08A-A	PYF11A-A	PYF14A-A	PYF08A-E
				
163	164	164	164	165
PYF11A-E	PYF14A-E	HD-1004-W-001	HD-1001	HD-1002
				
165	165	166	166	166
HD-1003	HD-1004	PT08-0	PY08-0	PY14-0
				
167	167	167	168	168
PTC01	PYC01	PYC02		
				
168	169	169		

CROSS REFERENCE

Axiom	NAIS	OMRON	FUJITS Takamisawa	TYCO	HONGFA	SONGCHUAN	GOOD SKY	TAIKO
941	DS2Y	G5V-2	RY/FBR240	OVR T82/T83 V23105	JRC-27F	876N(502)	GS	
946		G2E	FBR211	OUA	HM4100F	842	UA-SS	
Y14	HI	G5V-1	SY	TSC	JRC-23F		ST	
943	JS	G5LE	FBR160	T72	JQC-3FA/JQC-3FF	833H	RW-SH	
942-1	JR	G2R-1	VS/FBR61	OMI RKS/RKB	JQX14FF/(HF14FF)	793	MI	
942-2	JR/JW	G2R-2	VS/FBR62	OMI2 RKS/RKB	JZX140FF/(HF140FF)	793	MI2	
942-T	JR	G2R-1E	VS/FBR61	OZ RKS	JQX14FW/(HF14FW)	793	GZ	
944							GM	
945	JV	G5C/G5CA		PCD		201		
948	ALF	G4A			HF102F	891		
949			VF		JQX-37F			
951	HL	LY		K10	JQX-13F	SCLA/SCL	RET	
952	JT	MY		KHA	JZX-18FF	SCLB/SCLD		
954	JR1AF-TMP	G5J	VR	OMIF	JQX-62F			
957			LZ	ODUH T73	HF8	843	UDH	
971					JQC-12FF	834		
972								
981-1A-TV	LK1	G5PA-1		SDT-R	JZC-36F		SMIT	
981-2A-SP7	LK2	G5PA-28		OSA-DM3		401L		
981-2A	JA		JV	OSA-DM5	HF42F	401		
982-1A				OJ/OJE	HF32F	835	GJ	
982-1C				OJ/OJE	HF32F		GJ	
953(OPEN)	JT	G8P		ORU T90	HF2110	832	GU	
953G	JT			ORU T90	JQX-105-1	832	GU	
953A	JT	G8P		ORU T91	JQX-105F-2		GU	
953B								
953M				ORU T91	JQX-105F-4		GU	
953K						855AWP	GU	
953E						855AWP	GU	
201								
Y02-1		G5RL-1	FTR-H1	RT-B/C	HF-115F	881 1P	EMI-1P	
Y02-2			FTR-H2	RT-E	HF-115F	881 2P	EMI-2P	
Y02-T		G5RL-1-E		RT-D	HF-115F-T	881H	EZ	
Y21	JS	G5LE	FBR160	PCE/SRUDH T7N	JQC-21FF	812BH	RCDH	
Y31	LD	G5N	F3	PCJ	HF46F			
122-1				OMI RKS/RKB			MI	
132-1		G5RL-1	FTR-H1	RT-B/C	HF-115F	881 1P	EMI-1P	
132-2			FTR-H2	RT-E	HF-115F	881 2P	EMI-2P	
132-T								
133				OJ/OJE	HF32F	835	GJ	
134				PCH	HF33F			
956(OPEN)			FBR270	VKP	HFKP	822	CAR	
956		G8PE	FBR274	VKP	HFKP	822	CAR	
961	CB	G8L		VF4	HFV4	792	GRL	
961A				VF4	HFV4	792H	GRL	
962	CM	G8H/G8HN		VFM	HFV6	871		
963	JSM		FBR160	T72M	HFKB	883HM	RWM	
964	JJM/CQ	G8QN	FBR51/52		HFKW	895	JM/JMW	
964-T								
965(OPEN)				V23072 VKM	HFKM		ARWSH	
965				VKM	HFKM	861	ARWSH	
965T						861T		
Y15						804		
Y16		G8JR		V23134-J/VF7		897		
102						103		TB
953BH								