

Shenzhen Yuanze Electric Co., Ltd.
Mr. Luo Zhanhong
-
8th Floor, 2# Building of Yincheng
Industrial Park, No.69 of Xiangshan
Rd., Luotian, Songgang Street,
Baoan
District, Shenzhen, Guangdong
518000

Date : 12.02.2015
Our ref. : RBI 05
Your ref.: L.Z.

Ref : R TÜV-Mark Approval

Type of Equipment : Electromechanical Elementary Relay
Model Designation : See Certificate
Certificate No. : R 50197243 0003
Report No. : 17018022 004

Dear Mr. Luo Zhanhong,

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.

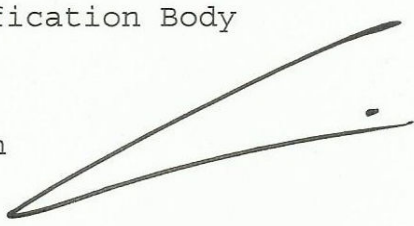
We appreciate your kind support and would like to offer our assistance and continuous services in the future.

Please contact our office for approval of your new products.

With kind regards,

Certification Body

G. Yin



Enclosure

证书的详细资料请登陆www.tuvdotcom.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 50197243

Blatt Page
0003

Ihr Zeichen Client Reference
L.Z.

Unser Zeichen Our Reference
05-RBI- 17018022 004

Ausstellungsdatum
12.02.2015

Date of Issue
(day/mo/yr)

Genehmigungsinhaber License Holder

Shenzhen Yuanze Electric Co., Ltd.
8th Floor, 2# Building of Yincheng
Industrial Park, No.69 of Xiangshan
Rd., Luotian, Songgang Street, Baoan
District, Shenzhen, Guangdong 518000
P.R. China

Fertigungsstätte Manufacturing Plant

SHENZHEN YUANZE ELECTRIC CO.,
LTD. DONGGUAN BRANCH
Plot E, No.1-5, Tanglongxi Road
Tangxia Town
Dongguan, Guangdong
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

Relay (Electromechanical Elementary Relay)

as pages 0001-0002

Change

Name and Address of the Factory : see above

Ambient Temperature : -30°C to +105°C

Addition

Type Designation : Y3F-x-lyyDz, vv
yy = 05, 06, 09, 12 or 24

Rated Coil Voltage : DC 6V

Electrical : 1) 100,000 (at 900 cycles/hour)

Endurance : 2) 60,000 (at 360 cycles/hour)

Rated contact : 1) AC 250V; NO/NC:7/3A(z = Blank)

Load : and 7A(z = M)
2) AC 250V; 10A

Remark: The labelling requirements acc. to EU Directive
2001/95 have to be observed for distribution within the EEA.

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



G. Yin

Certificate No. R 50197243 0003 Our Reference 05-RBI-17018022 004 Appendix No. 1.1
Constructional Data Form (CDF) for Electromechanical Relay

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License holder : **Shenzhen Yuanze Electric Co., Ltd.**
 8th floor, 2# Building of Yincheng Industrial Park, No. 69 of Xiangshan Rd., Luotian,
 Songgang Street, Baoan District, Shenzhen, Guangdong 518000, P.R. China

Factory : **SHENZHEN YUANZE ELECTRIC CO., LTD. DONGGUAN BRANCH**
 Plot E, No.1-5, Tanglongxi Road, Tangxia Town, Dongguan, Guangdong, P.R.
 China

Type of Appliance : Electromechanical Elementary Relay

Type Designation : Y3F-x-1yyDz, vvv series (see type nomenclature on page 3)

Specification (contact-circuit)			
Model name	Y3F-x-1yyD, vvv (z = Blank)	Y3F-x-1yyDM, vvv (z = M)	
Contact material	AgSnO ₂		
Contact loading schematic	Single-pole, 1 change-over contact	Single-pole, 1 make contact	
Rated voltage	AC 250V	AC 250V	DC 30V
Rated current	NO/NC: 10/10A	10A	10A
cos φ	1	1	---
L/R	---	---	0 ms
frequency if a.c.	50/60Hz		
Number of electrical cycles/ Ambient temperature	100,000 cycles (at 600 cycles/hour) -30°C to +85°C		
	60,000 cycles (at 360 cycles/hour) -30°C to +105°C only for AC250V 10A		
	100,000 cycles (at 900cycles/hour) -30°C to +105°C only for AC 250V NO/NC: 7/3A (z=Blank) and 7A (z=M)		
	---	10,000 cycles (at 900 cycles/hour) -30°C to +105°C	
Duty factor	50%		
Number of mechanical cycles	1,000,000 cycles (at 18,000 cycles/hour)		
Rated coil power	360mW		

Specification (coil-circuit)					
Rated coil voltage DC (V)	5	6	9	12	24
Coil resistance at 20°C (Ω)	69	100	225	400	1600
Rated coil power (mW)	360mW				

Operative range of coil voltage	☐ class 1: 80% to 110% of rated coil voltage ☒ class 2: 85% to 110% of rated coil voltage ☐ other : 75% to 110% of rated coil voltage
Thermal insulation class	155°C Class F



Certificate No. R 50197243 0003 Our Reference 05-RBI-17018022 004 Appendix No. 1.1

Constructional Data Form (CDF) for Electromechanical Relay

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Specification (general)			
Type of environment protection	☐ RT 0 ☐ RT I ☒ RT II ☒ RT III ☐ RT IV ☐ RT V		
Overvoltage category	II		
Impulse withstand voltage	2500V (coil - contact)		
Pollution degree	2		
	Insulation	Creepage distance	Clearance
- between coil and contact circuits	Basic insulation (2000V applied)	2,5mm	1,8mm
- between coil and outer surface	Basic insulation (1500V applied)	---	---
- between contact and outer surface	Basic insulation (1500V applied)	---	---
- between contacts of different polarity	---	---	---
Type of interruption	Micro-disconnection (750V applied)	---	0,25mm between tips of open contact
Rated insulation voltage	250V		
Glow wire temperature	850°C 750°C (No ignition)		

Terminals	
Type of terminals	PCB solder pin
Required preparation of the conductor	---
Material of the terminal	Copper alloy (≥60% Cu)
Plating of the terminal	Tin8022

Plastic Parts					
Object / part No.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of conformity
Case, Base, Bobbin	mitsubishi engineering-plastics corp	5010GN6-30 M8(ccc)(r11)	PBT, 130°C, V-0	---	UL E53664
	KINGFA SCI & TECH CO LTD	PBT-RG301(ccc)(r1)	PBT, 130°C, V-0	---	UL E171666

TÜV Rheinland Group

2015.02.05

Robin Luo

Date

Name

Signature



Certificate No. R 50197243 0003 Our Reference 05-RBI-17018022 004 Appendix No. 1.1
Constructional Data Form (CDF) for Electromechanical Relay

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Other parts and components					
Object / part No.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of conformity
Coil winding wire	---	---	155 °C, Class F	---	UL

Type Nomenclature:

The model name Y3F-x-1yyDz, vvv reads as following:

x, y, z and v are variables.

Y3F	-	x	-	1	yy	D	z	,	vvv
1		2		3	4	5	6		7

1.	Basic Series: Y3F
2.	Sealing Construction: x = SS or SH x = SS --- Vented / Flux proof (RT II) x = SH --- Wash tight (RT III)
3.	Number of Pole: 1 --- 1 pole
4.	Rated Coil voltage in volts: yy = 05, 06, 09, 12 or 24
5.	Standard type: D
6.	Contact: z = Blank or M z = Blank --- 1 change-over contact (1 Form C) (EN 61810-1, Table 12: o) z = M --- 1 make contact (1 Form A) (EN 61810-1, Table 12: a)
7.	Additional code: v = 0 - 9, A - Z, a - z or blank, which does not represent electrical changes, only for specific customer requirements.

