

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50139166

Blatt *Page*
0010

Ihr Zeichen *Client Reference*
G.W.

Unser Zeichen *Our Reference*
05-HUANGHA- 12004354

Ausstellungsdatum
012 04.12.2012

Date of Issue
(day/month/yr)

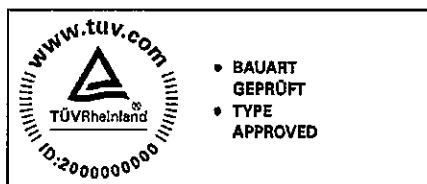
Genehmigungsinhaber *License Holder*

Tyco Electronics (Shenzhen)
Co., Ltd.
Tyco Electronics Technology
Park, Shiyan Street, Baoan District
Shenzhen, Guangdong 518108
P.R. China

Fertigungsstätte *Manufacturing Plant*

Tyco Electronics (Shenzhen)
Co., Ltd.
Tyco Electronics Technology
Park, Shiyan Street, Baoan District
Shenzhen, Guangdong 518108
P.R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 61810-1:2008
IEC 61810-1:2008

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relais (Electromechanical Elementary Relay)

as pages 0001-0009

Additional

Type Designation : OJ-v-1wHMy, aaaaaa
OJE-v-1wHMy, aaaaaa

Electrical Endurance : 50,000 cycles at 360 cycles/h(V=SS)
30,000 cycles at 360 cycles/h(V=SH)

Ambient Temperature : -30°C to 85°C

Appendix 1.1 dated on 2012.11.29 replace Appendix 1.1 dated on 2010.12.19

ANLAGE (Appendix): 1.1

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

Zertifizierungsstelle



Dipl.-Ing. (FH) T. Zimmer

Zertifikat

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Zertifikat Nr. *Certificate No.*
R 50139166

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0009

Ihr Zeichen *Client Reference*
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Unser Zeichen *Our Reference*
02-CHENAND- 12004354

Ausstellungsdatum

Date of Issue
(day/mo/yr)
011 27.12.2010

Genehmigungsinhaber *License Holder*

Tyco Electronics (Shenzhen)
Co., Ltd.
Tyco Electronics Technology
Park, Shiyan Street, Baoan District
Shenzhen, Guangdong 518108
P.R. China

Fertigungsstätte *Manufacturing Plant*

Tyco Electronics (Shenzhen)
Co., Ltd.
Tyco Electronics Technology
Park, Shiyan Street, Baoan District
Shenzhen, Guangdong 518108
P.R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 61810-1:2008
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Relay (Electromechanical Elementary Relay)

as pages 0001-0008

Change

Test Requirement : see above

ANLAGE (Appendix): 1.1

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Zertifizierungsstelle



Dipl.-Ing. C. Nasca

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50139166

Blatt *Page*
0001

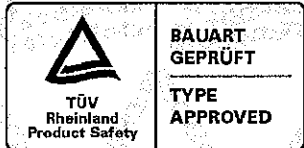
Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i> (day/mo/yr)
G.W.	02-CHENAND- 12004354	008 04.11.2008	

Genehmigungsinhaber <i>License Holder</i>	Fertigungsstätte <i>Manufacturing Plant</i>
Tyco Electronics (Shenzhen) Co., Ltd. Tyco Electronics Technology Park, Shiyan Street, Baoan District Shenzhen, Guangdong 518108 P.R. China	Tyco Electronics (Shenzhen) Co., Ltd. Tyco Electronics Technology Park, Shiyan Street, Baoan District Shenzhen, Guangdong 518108 P.R. China

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*

EN 61810-1:2004
IEC 61810-1:2003



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relay (Electromechanical Elementary Relay)

Type Designation : OJ-v-lwxy, aaaaaa 12
OJE-v-lwxy, aaaaaa
(OEG) (SCHRACK) (Potter & Brumfield)
(P & B) (tyco) (Tyco Electronics)
v = SS or SH
w = 03, 05, 06, 09, 12, 18, 24 or 48
x = LM, DM, LMH, LMH2, LMH4, HM or HM2
y = Blank or F
a = 0-9, a-z, A-Z or blank

Rated Contact Voltage : AC 250V, 50/60Hz
Mechanical Endurance : 10,000,000 cycles at 72,000 cycles/h

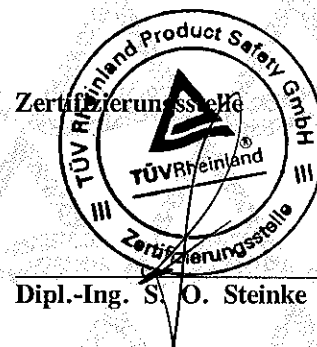
Continued on page 0002

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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.

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
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0002

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008 04.11.2008
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Genehmigungsinhaber *License Holder*

Tyco Electronics (Shenzhen)
Co., Ltd.
Tyco Electronics Technology
Park, Shiyuan Street, Baoan District
Shenzhen, Guangdong 518108
P.R. China

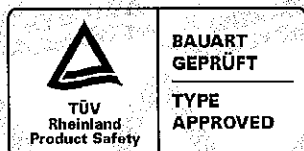
Fertigungsstätte *Manufacturing Plant*

Tyco Electronics (Shenzhen)
Co., Ltd.
Tyco Electronics Technology
Park, Shiyuan Street, Baoan District
Shenzhen, Guangdong 518108
P.R. China

Prüfzeichen *Test Mark*

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IEC 61810-1:2003



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relay (Electromechanical Elementary Relay)

Continuation

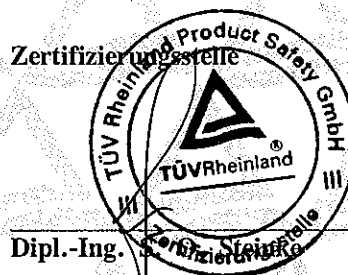
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OJE-v-1wLMY, aaaaaa
Rated Contact Current : 3A, cos (phi)=1
Electrical Endurance : 100,000 cycles at 1,200 cycles/h
Ambient Temperature : -30°C to 95°C

Type Designation : OJ-v-1wDMY, aaaaaa
OJE-v-1wDMY, aaaaaa
Rated Contact Current : 5A, cos (phi)=1
Electrical Endurance : 100,000 cycles 60,000 cycles
at 1,200 cycles/h
Ambient Temperature : -30°C to 70°C -30°C to 85°C

Continued on page 0003

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Dipl.-Ing.

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0003

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008 04.11.2008
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Genehmigungsinhaber *License Holder*

Tyco Electronics (Shenzhen)
Co., Ltd.
Tyco Electronics Technology
Park, Shiyan Street, Baoan District
Shenzhen, Guangdong 518108
P.R. China

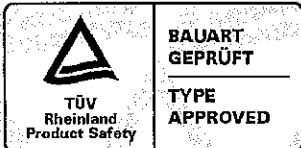
Fertigungsstätte *Manufacturing Plant*

Tyco Electronics (Shenzhen)
Co., Ltd.
Tyco Electronics Technology
Park, Shiyan Street, Baoan District
Shenzhen, Guangdong 518108
P.R. China

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Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relay (Electromechanical Elementary Relay)

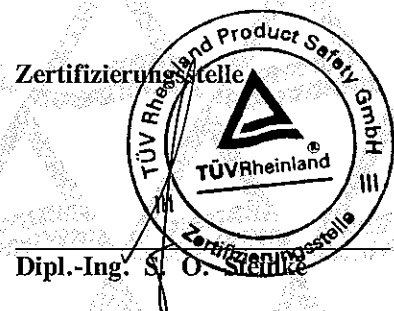
Continuation

Type Designation : OJ-v-1wLMHy, aaaaaa
OJE-v-1wLMHy, aaaaaa
OJ-v-1wLMH2y, aaaaaa
OJE-v-1wLMH2y, aaaaaa
OJ-v-1wLMH4y, aaaaaa
OJE-v-1wLMH4y, aaaaaa
Rated Contact Current : 8A, cos (phi)=1
Electrical Endurance : 100,000 cycles at 1,200 cycles/h
Ambient Temperature : -30°C to 70°C

Continued on page 0004

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
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0004

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Tyco Electronics Technology
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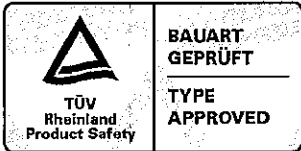
Fertigungsstätte *Manufacturing Plant*

Tyco Electronics (Shenzhen)
Co., Ltd.
Tyco Electronics Technology
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P.R. China

Prüfzeichen *Test Mark*

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IEC 61810-1:2003



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relay (Electromechanical Elementary Relay)

Continuation

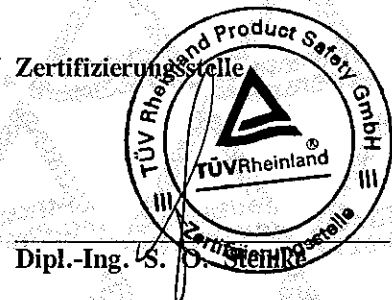
Type Designation : OJ-v-1wLMH2y, aaaaaa
OJE-v-1wLMH2y, aaaaaa
Rated Contact Current : 8A, cos(phi)=1
Electrical Endurance : 30,000 cycles at 1,200 cycles/h
Ambient Temperature : -30°C to 85°C

Type Designation : OJ-v-1wLMHF, aaaaaa
OJE-v-1wLMHF, aaaaaa
Rated Contact Current : 4A, cos(phi)=0.4
Electrical Endurance : 100,000 cycles at 1,200 cycles/h
Ambient Temperature : -30°C to 100°C

Continued on page 0005

*Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
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This certificate is based on our Testing and Certification Regulation. The product
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R 50139166

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0005

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02-CHENAND- 12004354

Ausstellungsdatum

Date of Issue
(day/month/year)
008 04.11.2008

Genehmigungsinhaber *License Holder*

Tyco Electronics (Shenzhen)
Co., Ltd.
Tyco Electronics Technology
Park, Shiyuan Street, Baoan District
Shenzhen, Guangdong 518108
P.R. China

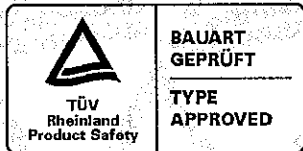
Fertigungsstätte *Manufacturing Plant*

Tyco Electronics (Shenzhen)
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Park, Shiyuan Street, Baoan District
Shenzhen, Guangdong 518108
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Zertifiziertes Produkt (Geräteidentifikation)
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Relay (Electromechanical Elementary Relay)

Continuation

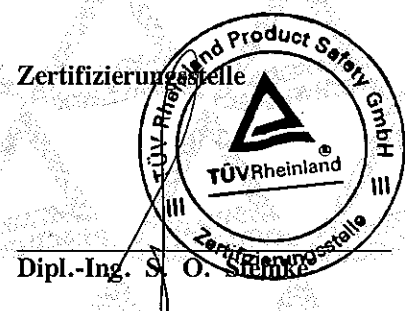
Type Designation : OJ-v-1wHMy, aaaaaa
OJE-v-1wHMy, aaaaaa
Rated Contact Current : 10A, cos (phi)=1
Electrical Endurance : 100,000 cycles at 1,200 cycles/h
Ambient Temperature : -30°C to 70°C

Type Designation : OJ-v-1wHM2y, aaaaaa
OJE-v-1wHM2y, aaaaaa
Rated Contact Current : 10A, cos (phi)=1
Electrical Endurance : 10,000 cycles at 1,200 cycles/h
Ambient Temperature : -30°C to 85°C

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

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Blatt *Page*
0006

Ihr Zeichen *Client Reference*
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Unser Zeichen *Our Reference* *Ausstellungsdatum*
02-CHENAND- 12004354 008 04.11.2008

Date of Issue
(day/mo/yr)

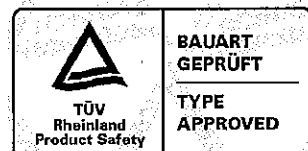
Genehmigungsinhaber *License Holder*

Tyco Electronics (Shenzhen)
Co., Ltd.
Tyco Electronics Technology
Park, Shiyao Street, Baoan District
Shenzhen, Guangdong 518108
P.R. China

Fertigungsstätte *Manufacturing Plant*

Shenzhen Oriental WangHe Industrial
Co., Ltd.
Hongben Industrial Area
Shajing, Baoan
Shenzhen 518104
P.R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 61810-1:2004
IEC 61810-1:2003

Zertifiziertes Produkt *(Geräteidentifikation)*
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Relay (Electromechanical Elementary Relay)

as pages 0001-0005

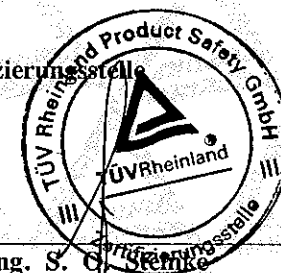
Addition

Factory : See above

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Zertifizierungsstelle



Dipl.-Ing. S. C. ...

Zertifikat

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Shenzhen, Guangdong 518108
P.R. China

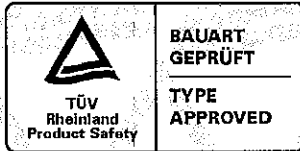
Fertigungsstätte *Manufacturing Plant*

Shenzhen Samking Electronics Co., Ltd
4th Floor, No.1 Building, Jinxiu
Industrial Park, Xitian Community
Gongming, Baoan District
Shenzhen, Guangdong 518104
P.R. China

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Relay (Electromechanical Elementary Relay)

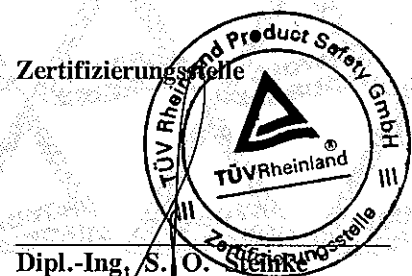
as pages 0001-0005

Addition

Factory : See above

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Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety



Dipl.-Ing. S. O. Steinkamp

Tyco Electronics (Shenzhen) Co.,
Ltd.
Mr. Gao Wei

Date : 04.11.2008
Our ref. : CHENAND 02
Your ref.: G.W.

Tyco Electronics Technology
Park, Shiyan Street, Baoan District
Shenzhen, Guangdong 518108
P.R. China

Ref : R TÜV-Mark Approval

Type of Equipment : Electromechanical Elementary Relay
Model Designation : See Certificate
Certificate No. : R 50139166 0001
Report No. : 12004354 008

Dear Mr. Gao Wei,

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

Dipl.-Ing. S. O. Steinke

Enclosure

TÜV Rheinland
(Shenzhen) Co., Ltd.

34/F, Tower A,
World Finance Centre,
Shennan East Road 4003,
Luohu District,
518001 Shenzhen, P.R.China

Tel: +86 755 8268-1188
Hot Line: +86 755 8268-1234
800-999-3668 (Free)
Fax: +86 755 2598-0321
www.chn.tuv.com

莱茵技术监督(深圳)有限公司
地址 深圳市罗湖区深南东路4003号
世界金融中心A座34楼
邮编 518001
电话 +86 755 8268-1188
热线 +86 755 8268-1234
800-999-3668(免费)
传真 +86 755 2598-0321
www.chn.tuv.com

Certificate No. R 50139166 0010 Our Reference 05-HUANGHA-12004354 012 Appendix No. 1.1

Constructional Data Form (CDF) for Electromechanical Relay

Page 1 of 6

License holder	: Tyco Electronics (Shenzhen) Co., Ltd. Tyco Electronics Technology Park, Shiyan Street, Baoan District Shenzhen, Guangdong 518108, P.R. China
Factory	: Tyco Electronics (Shenzhen) Co., Ltd. Tyco Electronics Technology Park, Shiyan Street, Baoan District Shenzhen, Guangdong 518108, P.R. China
Type of Appliance	: Electromechanical Elementary Relay
Type Designation	: OJ-v-1wxy,aaaaaa OJE-v-1wxy,aaaaaa series (see type nomenclature)

Specification (contact-circuit)							
Contact material	Ag(DM/LM),AgCdO(LMH/HM),AgSnO(LMH2/HM2),AgFeO(LMH4)						
Contact loading schematic	1 make contact						
Type	x=LM	x=DM		x=LMH/ LMH2/ LMH4	x=LMH2	x=LMH (y=F only)	x=HM2
Rated voltage	250VAC						
Rated current (Stable current)	3A	5A		8A	8A	4A	10A
cos φ	1	1	1	1	1	0,4	1
L/R,	--						
frequency if a.c.	50/60Hz						
Limiting continuous current	3A	5A		8A		10A	
Number of electrical cycles	100,000	100,000	60,000	100,000	30,000	100,000	10,000
	cycles(1200 cycles/hour)						
Maximum Ambient temperature	95°C	70°C	85°C	70°C	85°C	100°C	85°C
Minimum Ambient temperature	-30°C						
Duty factor	50%						
Number of mechanical cycles	10,000,000 cycles (72,000 cycles/hour)						



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Specification (contact-circuit)

Contact material	AgCdO		
Contact loading schematic	1 make contact		
Type	x=HM		
Rated voltage	250VAC		
Rated current (Stable current)	10A		
cos φ	1		
L/R,	--		
frequency if a.c.	50/60Hz		
Limiting continuous current	10A		
Number of electrical cycles	100,000	50,000 (v=SS)	30,000 (v=SH)
	cycles(1200 cycles/hour)	cycles(360 cycles/hour)	
Maximum Ambient temperature	70°C	85°C	
Minimum Ambient temperature	-30°C		
Duty factor	50%		
Number of mechanical cycles	10,000,000 cycles (72,000 cycles/hour)		

Specification (coil-circuit)

Rated coil voltage		DC 3V	DC 5V	DC 6V	DC 9V	DC 12V	DC 18V	DC 24V	DC 48V
Coil resistance at 20°C	450mW	20	55	80	180	320	720	1,280	5,100
	360mW	25	70	100	225	400	900	1,600	6,400
	200mW	45	125	180	400	720	1,620	2,800	--
Rated coil power (mW)	200Mw(LM/LMH/LMH2/LMH4),360Mw(HM),450mW(DM/HM/HM2)								
Operative range of coil voltage	<input checked="" type="checkbox"/> class 1: 80% to 110% of rated coil voltage <input type="checkbox"/> class 2: 85% to 110% of rated coil voltage								
Thermal insulation class	E(120°C) F(155°C)—Bobbin material use 70G33L (PA66)								

Specification (general)

Type of environment protection	RT II (flux proof),RT III (wash tight)
Overvoltage category	III
Impulse withstand voltage	4000V
Pollution degree	2

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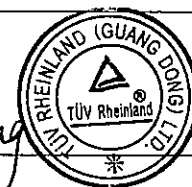
Hazel Huang

Date

Name



Signature



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Constructional Data Form (CDF) for Electromechanical Relay

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Specification (general)			
	Insulation	Creepage distance	Clearance
- between coil and contact circuits	Reinforced insulation: OJ AC4000V applied Basic insulation: OJE AC3600V applied	OJ: 8,5mm OJE: 3,3mm	OJ: 8,5 mm OJE: 3,3 mm
- between coil and outer surface	---	---	---
- between contact and outer surface	---	---	---
- between contacts of different polarity	---	---	---
Type of interruption	Micro-disconnection (1000V applied)	2,0mm	1,0mm(0,3mm between tips of open contact)
Rated insulation voltage	250V		

Terminals	
Type of terminals	PCB--solder
Kind of termination	None, Coil terminals identified
Material of the terminal	Copper alloy(>60% Cu)
Plating of the terminal	---

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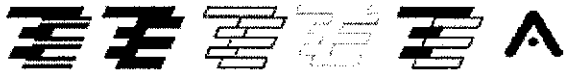



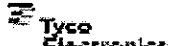






Date

Name

Signature



Trademarks

OEG	SCHRACK
P & B	Potter & Brumfield
<i>tyco</i> / Electronics	Potter & Brumfield
OEG	SCHRACK
P&B	tyco
<p>Tyco Electronics </p> <p>Tyco Electronics </p> <p> Tyco Electronics  Tyco Electronics</p> <p> Tyco Electronics  Tyco Electronics</p> <p> Tyco Electronics  Tyco Electronics</p>	
   	

Remark: Appendix 1.1 dated on 2012.11.29 replace Appendix 1.1 dated on 2010.12.19

